



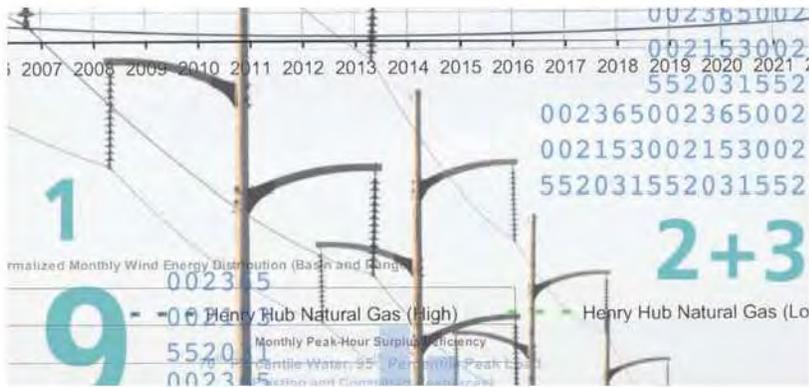
## Appendix C — Technical Appendix

For the 2009 Integrated Resource Plan

December 2009

# Appendix C — Technical Appendix

For the 2009 Integrated Resource Plan – December 2009



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## INTRODUCTION

*Appendix C—Technical Appendix* contains some of the supporting and explanatory materials used to develop Idaho Power's 2009 *Integrated Resource Plan* (IRP). The Technical Appendix begins with a reprint of the short-term and long-term resource action plans and follows with detailed information concerning various resource planning issues.

The main document, the IRP, contains a full narrative of the Idaho Power resource planning process. Additional information regarding the Idaho Power sales forecast is contained in *Appendix A—Sales and Load Forecast*, and details on Idaho Power's energy efficiency efforts are explained in *Appendix B—Demand-Side Management 2008 Annual Report*. The IRP, including the three appendices, was filed with the Idaho and Oregon public utility commissions in December 2009.

For information or questions concerning the resource plan or the resource planning process, contact Idaho Power:

Idaho Power—Resource Planning  
1221 West Idaho Street  
Boise, Idaho 83702  
208-388-2483

## NEAR- AND LONG-TERM ACTION PLAN

### Near-Term Action Plan

Year	Action
2010 .....	Present and gain acceptance of 2009 IRP with regulatory commissions File wind contract resulting from the 2012 Wind RFP with the IPUC File geothermal contract with the IPUC Irrigation Peak Rewards program increases from 160 MW to 220 MW FlexPeak Management program increases from 20 MW to 40 MW Langley Gulch CCCT construction begins
2011 .....	Wind project construction begins Langley Gulch CCCT construction continues Irrigation Peak Rewards program increases from 220 MW to 250 MW FlexPeak Management program increases to from 40 MW to 45 MW File 2011 IRP with regulatory commissions
2012 .....	Wind project on-line (approximately 150 MW) Langley Gulch CCCT on-line (300 MW) Geothermal project on-line (approximately 20 MW)
2013 .....	Boardman to Hemingway construction begins Shoshone Falls Upgrade Project construction begins File 2013 IRP with regulatory commissions
2014 .....	Shoshone Falls Upgrade Project construction continues
2015 .....	Shoshone Falls Upgrade Project on-line (49 MW) Boardman to Hemingway completed (250 MW) File 2015 IRP with regulatory commissions
2016 .....	Geothermal project on-line (approximately 20 MW)
2017 .....	Boardman to Hemingway additional capacity for market purchases (175 MW) File 2017 IRP with regulatory commissions
2018 .....	No action
2019 .....	File 2019 IRP with regulatory commissions

### Alternate Portfolio Near-Term Action Plan

Year	Action
2010 .....	File 2009 IRP with regulatory commissions File wind contract (2012 Wind RFP) with the IPUC File geothermal contract with IPUC Irrigation Peak Rewards Program increases to 220 MW FlexPeak Management program increases to 40 MW Langley Gulch CCCT construction begins
2011 .....	Wind project construction begins Langley Gulch CCCT construction Irrigation Peak Rewards Program increases to 250 MW FlexPeak Management program increases to 45 MW File 2011 IRP with regulatory commissions
2012 .....	Wind project on line (approximately 150 MW) Langley Gulch CCCT on-line (300 MW) Geothermal generation on-line (approximately 20 MW) <b>Natural gas generation resource one RFPs</b>
2013 .....	File 2013 IRP with regulatory commissions
2014 .....	Shoshone Falls upgrade construction

Year	Action
	<b>Natural gas generation resource two RFPs</b>
2015.....	Shoshone Falls upgrade on-line (50 MW)
	<b>Natural gas generation resource one on-line</b>
	File 2015 IRP with regulatory commissions
2016.....	Geothermal Generation on-line (approximately 20 MW)
2017.....	<b>Natural Gas generation resource two on-line</b>
	File 2017 IRP with commissions
2018.....	No action
2019.....	File 2019 IRP with commissions

### Long-Term Action Plan

Year	Action
2020.....	Natural gas generation project on-line (approximately 100 MW)
2021.....	No action
2022.....	Wind project on-line (approximately 100 MW)
2023.....	No action
2024.....	Natural gas generation project on-line (approximately 200 MW)
2025.....	No action
2026.....	Natural gas generation project on-line (approximately 200 MW)
2027.....	Wind project on-line (approximately 400 MW)
2028.....	Natural gas generation project on-line (approximately 400 MW)
2029.....	Natural gas generation project on-line (approximately 500 MW)

## PORTFOLIO ANALYSIS, RESULTS, AND SUPPORTING DOCUMENTATION

### Initial Resource Portfolios (2010–2019)

Year	1-1 Solar		1-2 Gas Peaker		1-3 Gas Peaker & B2H <sup>1</sup>		1-4 B2H	
	Resource	MW	Resource	MW	Resource	MW	Resource	MW
2012	Wind*	150	Wind*	150	Wind*	150	Wind*	150
	CCCT (Langley Gulch)*	300	CCCT (Langley Gulch)*	300	CCCT (Langley Gulch)*	300	CCCT (Langley Gulch)*	300
	Geothermal*	20	Geothermal*	20	Geothermal*	20	Geothermal*	20
2015	Shoshone Falls	49	Shoshone Falls	49	Shoshone Falls	49	Shoshone Falls	49
	SCCT (Large Aero)	200	SCCT (Frame Peaker)	170	B2H	250	B2H	250
2016	Geothermal*	20	Geothermal*	20	Geothermal*	20	Geothermal*	20
2017	Solar PT w/St	100	SCCT (Frame Peaker)	170	SCCT (Large Aero)	100	B2H	175
2019	Solar PT w/St	100			SCCT (Large Aero)	100		

<sup>1</sup> B2H-Boardman to Hemingway

\*Committed Resource

### Initial Resource Portfolios (2020–2029)

Year	2-1 Nuclear/Green		2-2 Gateway West		2-3 IGCC		2-4 Wind & Peakers		2-5 Limited Curtailment	
	Resource	MW	Resource	MW	Resource	MW	Resource	MW	Resource	MW
2020	Solar PT w/St	100					SCCT (Large Aero)	100		
2021	Wind	100	Wind	100					Wind	100
2022	Solar PT w/St	100	Gateway West	200	Solar PT w/St	100	Wind	100	SCCT (Large Aero)	100
2023	Nuclear	270								
2024	Geothermal	52			IGCC w/Seq.	600	SCCT (Large Aero)	200		
2025	Solar PT w/St	100	Gateway West	200			Gateway West	100		
2026			Wind	100			SCCT (Large Aero)	200	SCCT (Large Aero)	100
2027	Geothermal	52	Gateway West	400	Solar PT w/St	100	Wind	400	Wind	200
									SCCT (Large Aero)	100
2028	Nuclear	400	Gateway West	600	SCCT (Large Aero)	400	SCCT (Large Aero)	400		
2029	Gateway West	250			Solar PT w/St	100	SCCT (Large Aero)	500		

### 1-1 Solar

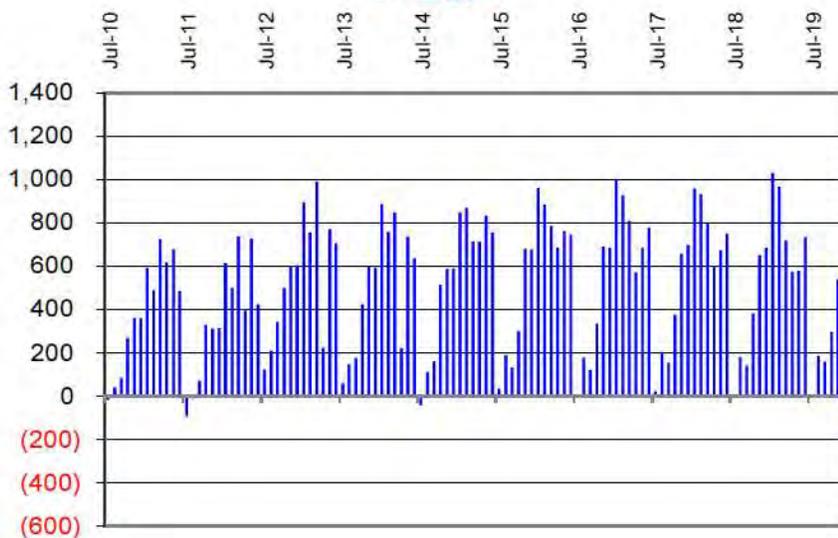
RES	Type	Resource	Nameplate		Energy	Peak	Cum. Energy	Cum. Peak	Cum. RES MW	Cum. RES MWh
			MW	Year						
				2010			0	0	0	-
RES	CR	Wind	150	2011			0	0	50	438,000
	CR	CCCT (Langley)	300	2012			0	0	50	438,000
RES	CR	Geothermal	20	2013			0	0	68	595,680
RES	NR	Shoshone Falls	49	2014	7.0	0.0	7	0	75	657,000
	NR	Large Aero	200	2015	100.0	200.0	107	200	75	657,000
RES	CR	Geothermal	20	2016			107	200	93	814,680
RES	NR	Solar PT w/St	100	2017	28.0	92.0	135	292	121	1,059,960
				2018			135	292	121	1,059,960
RES	NR	Solar PT w/St	100	2019	28.0	92.0	163	384	149	1,305,240
							<b>Min</b>	<b>(91)</b>	<b>(188)</b>	
							<b>STDEV</b>	<b>289</b>	<b>142</b>	
							<b>AVG</b>	<b>505</b>	<b>107</b>	

CR = Committed Resource  
 NR = New Resource  
 MP = Market Purchase

Peak-Hour



Energy



### 1-2 Gas Peaker

RES	Type	Resource	Nameplate MW	Year	Energy	Peak	Cum. Energy	Cum. Peak	Cum. RES MW	Cum. RES MWh
				2010			0	0	0	-
RES	CR	Wind	150	2011			0	0	50	438,000
	CR	CCCT (Langley)	300	2012			0	0	50	438,000
RES	CR	Geothermal	20	2013			0	0	68	595,680
RES	NR	Shoshone Falls	49	2014	7.0	0.0	7	0	75	657,000
	NR	Frame Peaker	170	2015	88.4	159.8	95.4	159.8	75	657,000
RES	CR	Geothermal	20	2016			95.4	159.8	93	814,680
	NR	Frame Peaker	170	2017	88.4	159.8	183.8	319.6	93	814,680
				2018			183.8	319.6	93	814,680
				2019			183.8	319.6	93	814,680

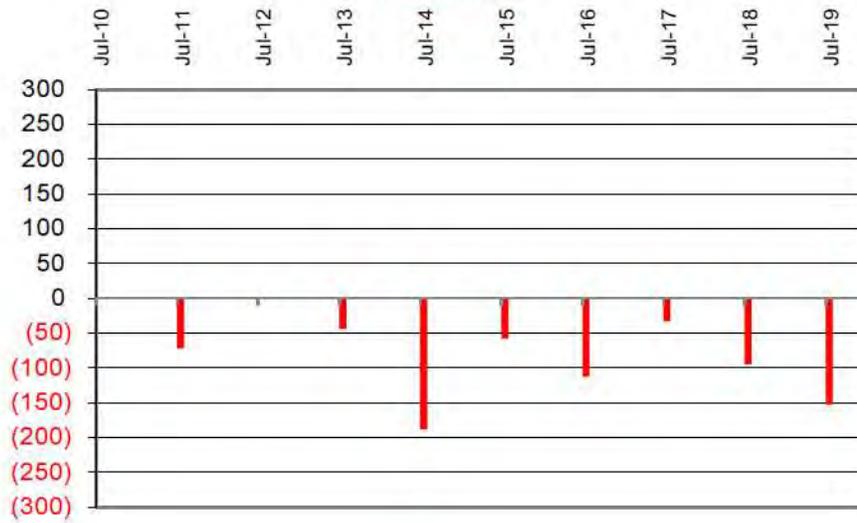
CR = Committed Resource

NR = New Resource

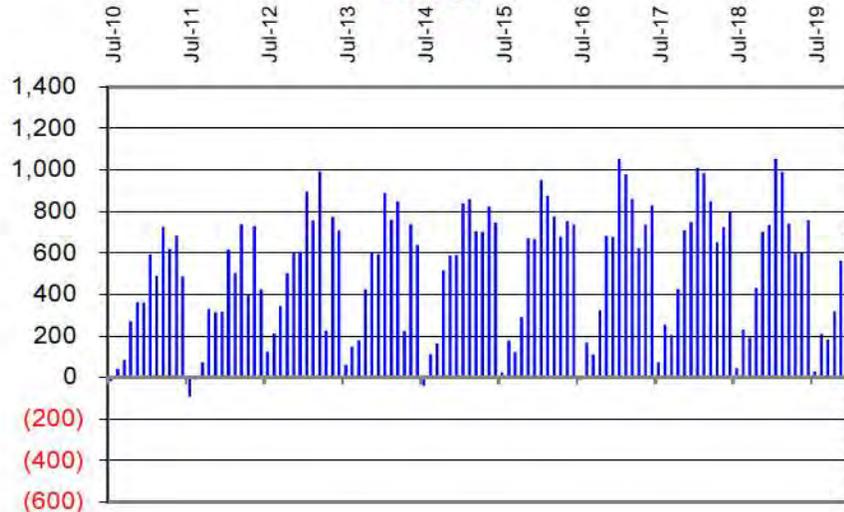
MP = Market Purchase

**Min (91) (188)**  
**STDEV 292 138**  
**AVG 515 99**

#### Peak-Hour



#### Energy



### 1-3 Gas Peaker & B2H

RES	Type	Resource	Nameplate MW	Year	Energy	Peak	Cum. Energy	Cum. Peak	Cum. RES MW	Cum. RES MWh
				2010			0	0	0	-
RES	CR	Wind	150	2011			0	0	50	438,000
	CR	CCCT (Langley)	300	2012			0	0	50	438,000
RES	CR	Geothermal	20	2013			0	0	68	595,680
RES	NR	Shoshone Falls	49	2014	7.0	0.0	7	0	75	657,000
	MP	B2H	250	2015	125.0	250.0	132	250	75	657,000
RES	CR	Geothermal	20	2016			132	250	93	814,680
	NR	Large Aero	100	2017	52.0	94.0	184	344	93	814,680
				2018			184	344	93	814,680
	NR	Large Aero	100	2019	52.0	94.0	236	438	93	814,680

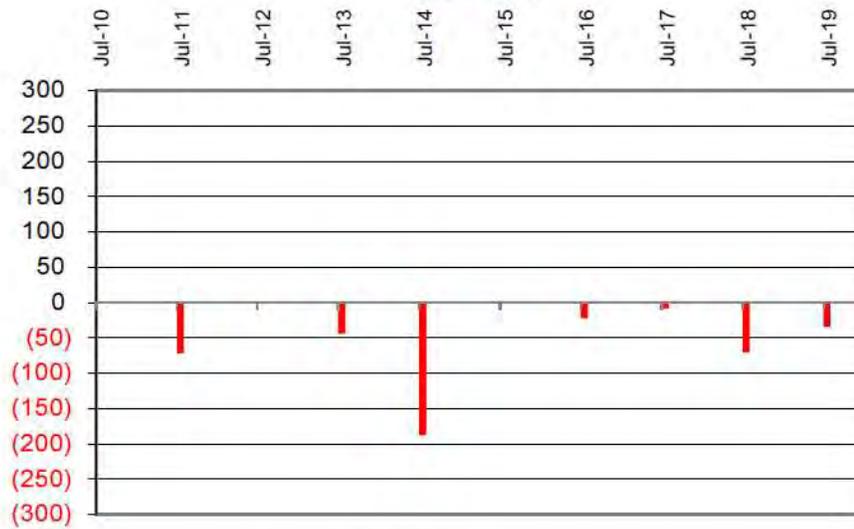
CR = Committed Resource

NR = New Resource

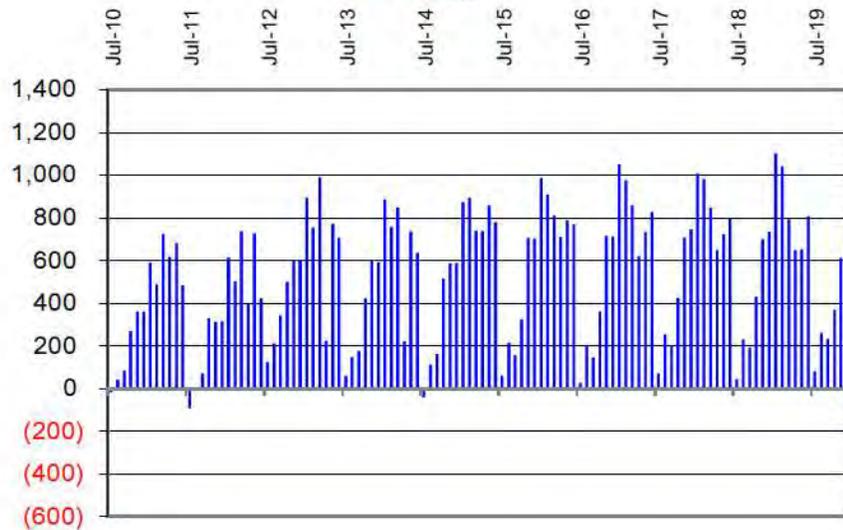
MP = Market Purchase

**Min (91) (188)**  
**STDEV 294 163**  
**AVG 527 133**

#### Peak-Hour



#### Energy



### 1-4 B2H

RES	Type	Resource	Nameplate		Energy	Peak	Cum. Energy	Cum. Peak	Cum. RES MW	Cum. RES MWh
			MW	Year						
				2010			0	0	0	-
RES	CR	Wind	150	2011			0	0	50	438,000
	CR	CCCT (Langley)	300	2012			0	0	50	438,000
RES	CR	Geothermal	20	2013			0	0	68	595,680
RES	NR	Shoshone Falls	49	2014	7.0	0.0	7	0	75	657,000
	MP	B2H	250	2015	125.0	250.0	132	250	75	657,000
RES	CR	Geothermal	20	2016			132	250	93	814,680
	MP	B2H	175	2017	87.5	175.0	219.5	425	93	814,680
				2018			219.5	425	93	814,680
				2019			219.5	425	93	814,680

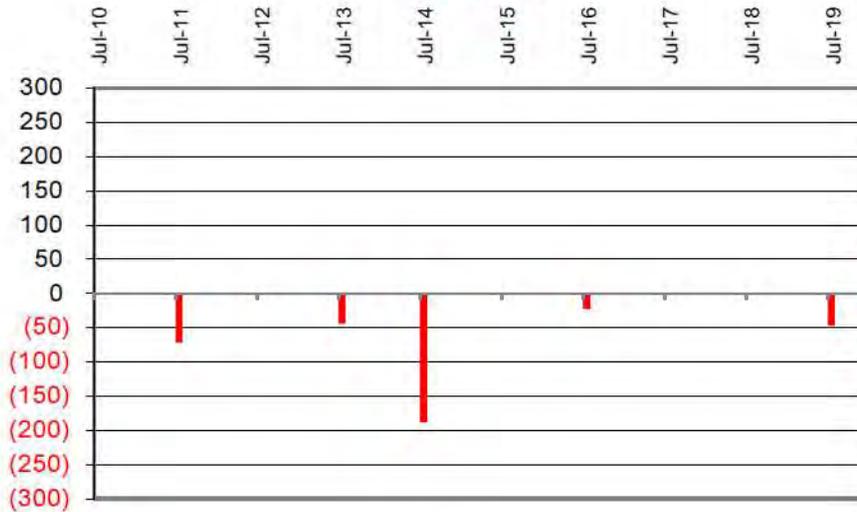
CR = Committed Resource

NR = New Resource

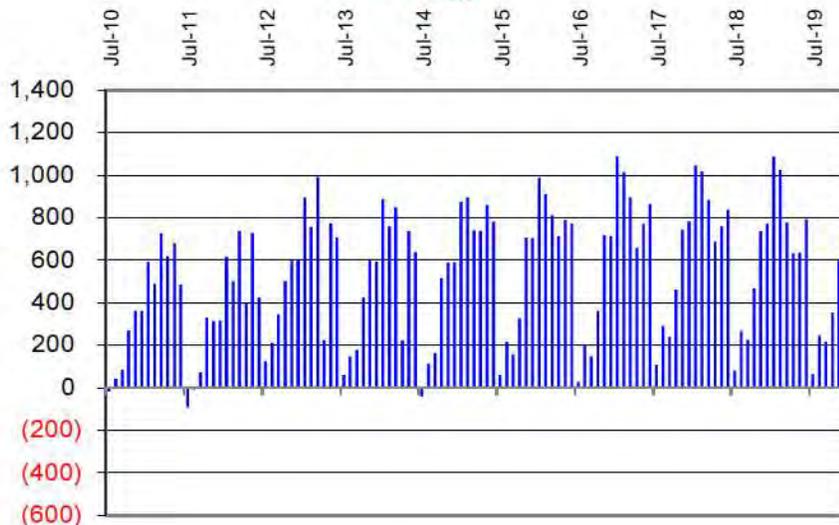
MP = Market Purchase

**Min** (91) (188)  
**STDEV** 297 180  
**AVG** 533 148

Peak-Hour



Energy



## 2-1 Nuclear/Green

RES	Type	Resource	Nameplate				Cum. Energy	Cum. Peak	Cum. RES MW	Cum. RES MWh
			MW	Year	Energy	Peak				
RES	NR	Solar PT w/St	100	2020	28.0	92.0	28	92	28	245,280
RES	NR	Wind	100	2021	32.0	5.0	60	97	60	525,600
RES	NR	Solar PT w/St	100	2022	28.0	92.0	88	189	88	770,880
	NR	Nuclear	270	2023	270.0	270.0	358	459	88	770,880
RES	NR	Geothermal	52	2024	46.8	46.8	405	506	134.8	1,180,848
RES	NR	Solar PT w/St	100	2025	28.0	92.0	433	598	162.8	1,426,128
				2026			433	598	162.8	1,426,128
RES	NR	Geothermal	52	2027	46.8	46.8	480	645	209.6	1,836,096
	NR	Nuclear	400	2028	380.0	400.0	860	1045	209.6	1,836,096
		Gateway West	250	2029	125.0	250.0	985	1295	209.6	1,836,096

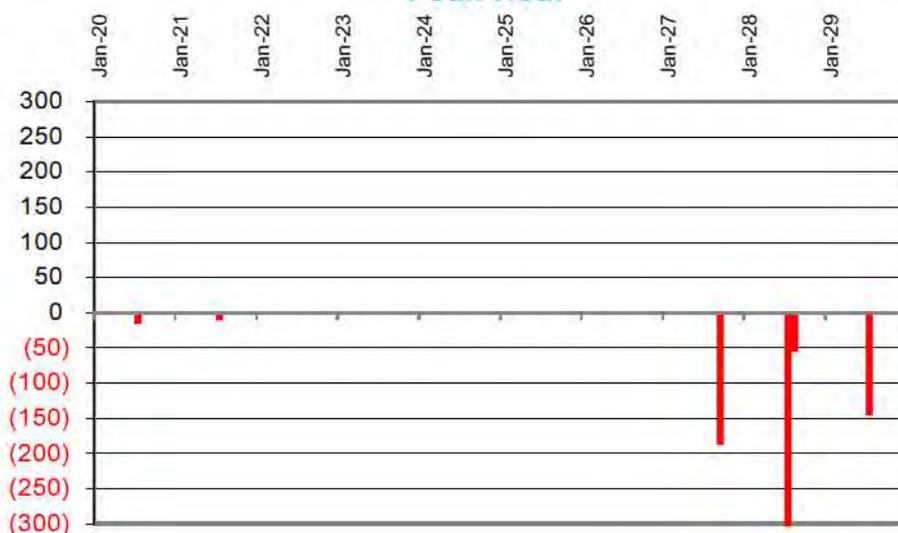
CR = Committed Resource

NR = New Resource

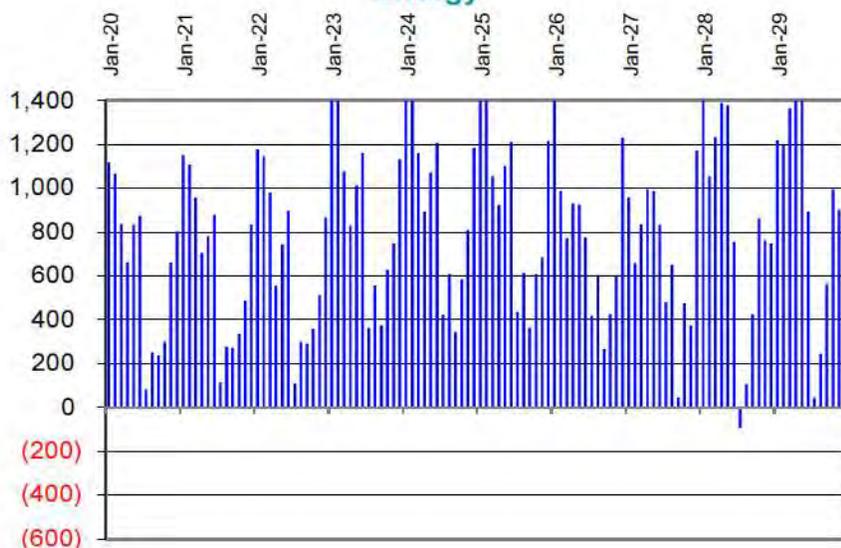
MP = Market Purchase

**Min** (93) (380)  
**STDEV** 396 440  
**AVG** 803 707

### Peak-Hour



### Energy



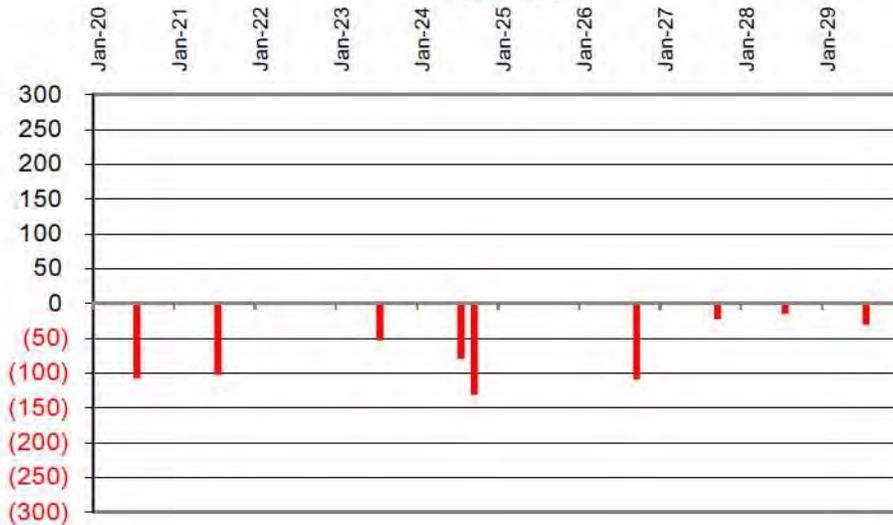
## 2-2 Gateway West

RES	Type	Resource	Nameplate		Energy	Peak	Cum. Energy	Cum. Peak	Cum. RES MW	Cum. RES MWh
			MW	Year						
				2020			0	0	0	-
RES	NR	Wind Gateway West	100	2021	32	5	32	5	32	280,320
			200	2022	100	200	132	205	32	280,320
				2023			132	205	32	280,320
				2024			132	205	32	280,320
RES	NR	Wind Gateway West	200	2025	100	200	232	405	32	280,320
			100	2026	32	5	264	410	64	560,640
			400	2027	200	400	464	810	64	560,640
			600	2028	300	600	764	1410	64	560,640
				2029			764	1410	64	560,640

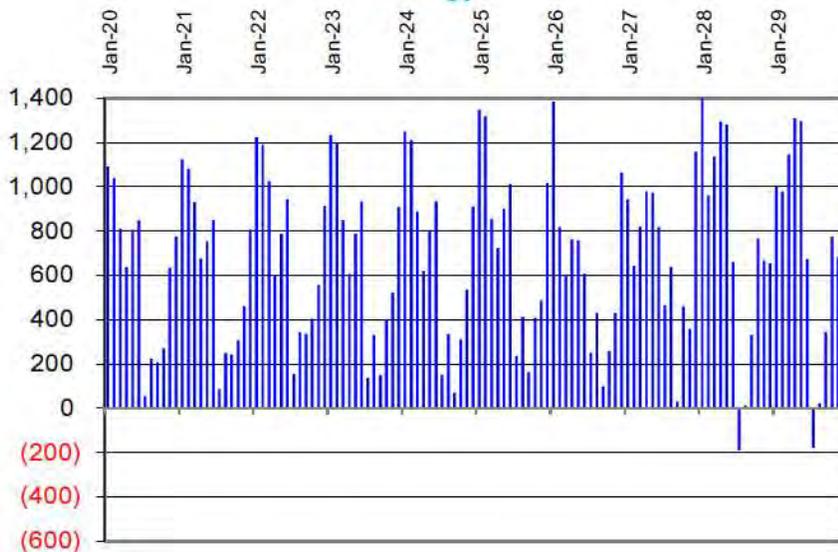
CR = Committed Resource  
 NR = New Resource  
 MP = Market Purchase

**Min** (189) (131)  
**STDEV** 381 506  
**AVG** 682 661

### Peak-Hour



### Energy

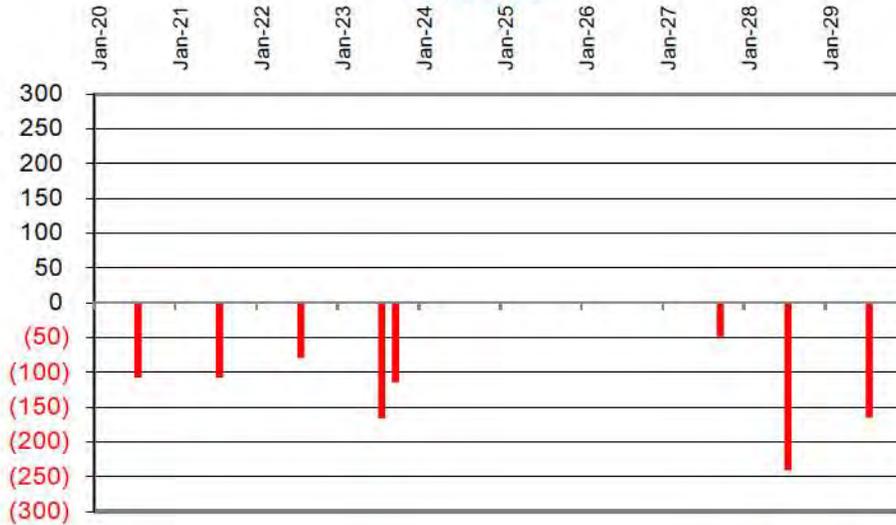


### 2-3 IGCC

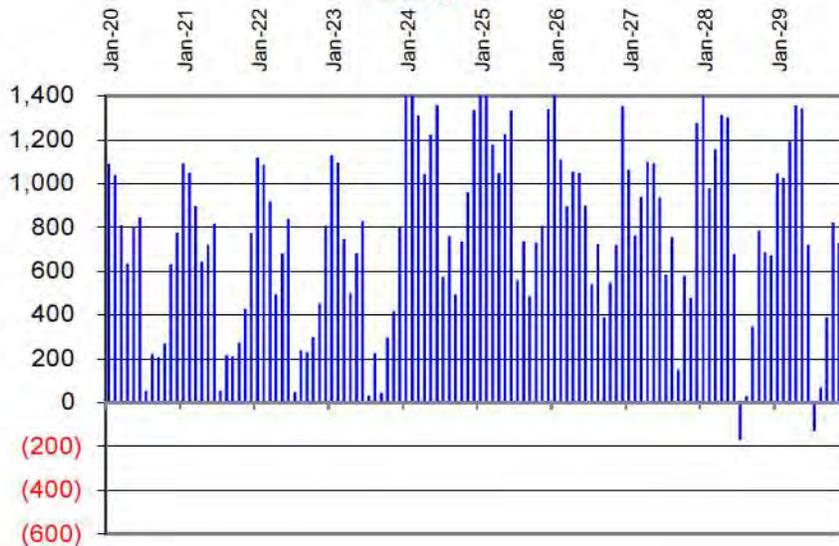
RES	Type	Resource	Nameplate MW	Year	Energy	Peak	Cum. Energy	Cum. Peak	Cum. RES MW	Cum. RES MWh
				2020			0	0	0	-
				2021			0	0	0	-
RES	NR	Solar PT w/St	100	2022	28	92	28	92	28	245,280
	NR	IGCC w/Seq.	600	2023			28	92	28	245,280
				2024	528	600	556	692	28	245,280
				2025			556	692	28	245,280
				2026			556	692	28	245,280
RES	NR	Solar PT w/St	100	2027	28	92	584	784	56	490,560
	NR	Large Aero	400	2028	200	400	784	1184	56	490,560
RES	NR	Solar PT w/St	100	2029	28	92	812	1276	84	735,840
							<b>Min</b>	<b>(169)</b>	<b>(240)</b>	
							<b>STDEV</b>	<b>419</b>	<b>491</b>	
							<b>AVG</b>	<b>781</b>	<b>705</b>	

CR = Committed Resource  
 NR = New Resource  
 MP = Market Purchase

Peak-Hour



Energy



## 2-4 Wind & Peakers

RES	Type	Resource	Nameplate		Energy	Peak	Cum. Energy	Cum. Peak	Cum. RES MW	Cum. RES MWh
			MW	Year						
	NR	Large Aero	100	2020			0	0	0	-
				2021			0	0	0	-
RES	NR	Wind	100	2022	30	5	30	5	30	262,800
				2023			30	5	30	262,800
	NR	Large Aero	200	2024	100	200	130	205	30	262,800
		Gateway West	100	2025	100	100	230	305	30	262,800
	NR	Large Aero	200	2026	50	100	280	405	30	262,800
RES	NR	Wind	400	2027	128	20	408	425	158	1,384,080
	NR	Large Aero	400	2028	200	400	608	825	158	1,384,080
	NR	Large Aero	500	2029	250	500	858	1325	158	1,384,080

CR = Committed Resource

NR = New Resource

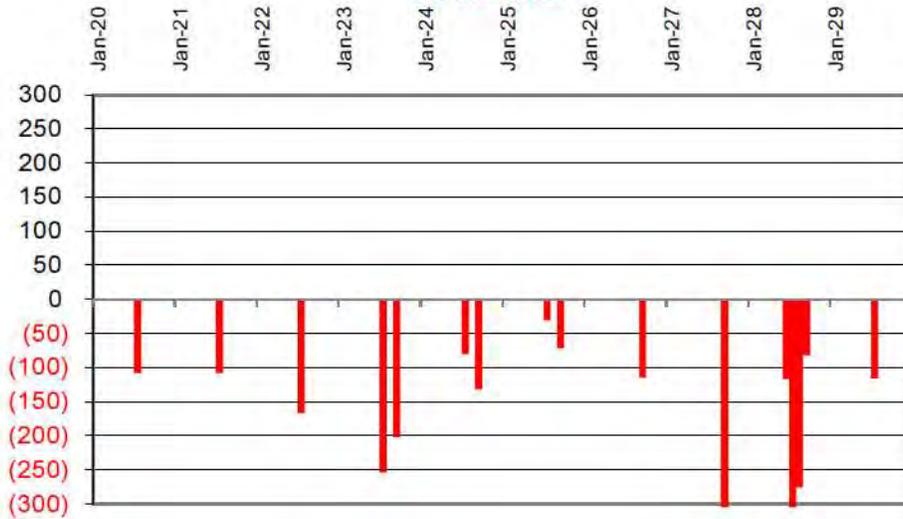
MP = Market Purchase

Min (345) (599)

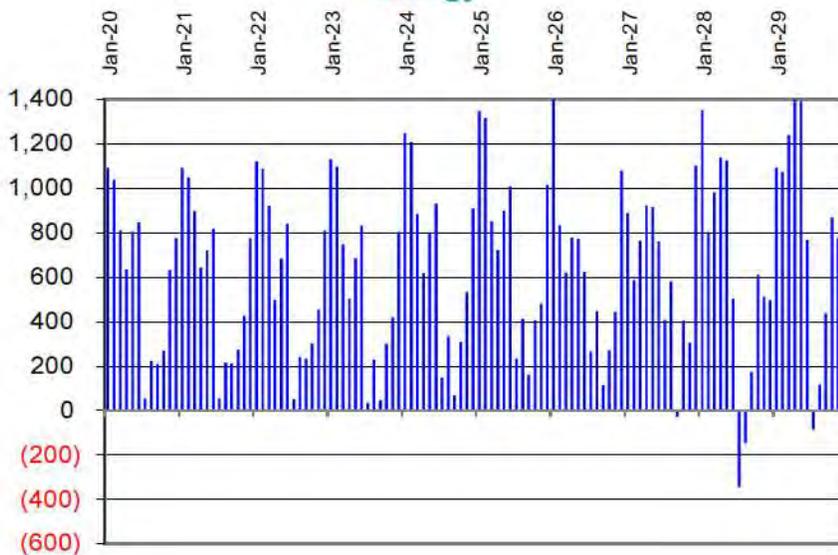
STDEV 384 460

AVG 648 504

### Peak-Hour



### Energy

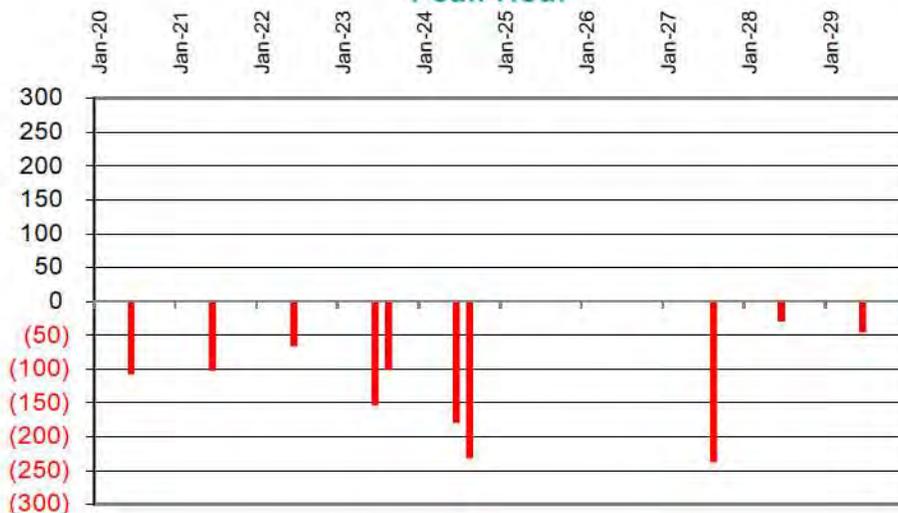


## 2-5 Limited Coal Curtailment

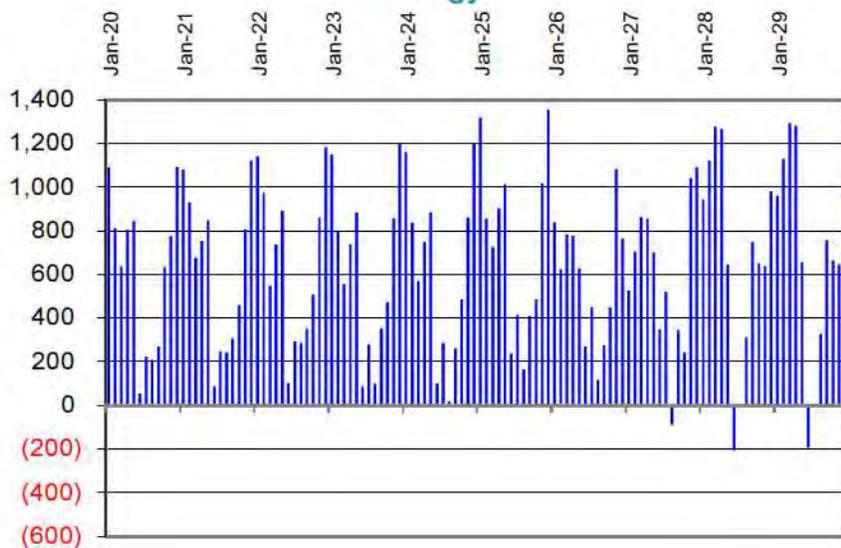
RES	Type	Resource	Nameplate		Energy	Peak	Cum. Energy	Cum. Peak	Cum. RES MW	Cum. RES MWh
			MW	Year						
				2020			0	0	0	-
RES	NR	Wind	100	2021	32	5	32	5	32	280,320
		Large Aero	100	2022	50	100	82	105	32	280,320
				2023			82	105	32	280,320
				2024			82	105	32	280,320
RES	NR	Existing Coal	350	2025	152	380	234	485	32	280,320
		Large Aero	100	2026	50	100	284	585	32	280,320
	NR	Wind	200	2027	64	10	348	595	96	840,960
		Large Aero	100	2027	50	100	398	695	96	840,960
		Existing Coal	700	2028	350	700	748	1395	96	840,960
				2029			748	1395	96	840,960
							<b>Min</b>	<b>(205)</b>	<b>(237)</b>	
							<b>STDEV</b>	<b>371</b>	<b>510</b>	
							<b>AVG</b>	<b>647</b>	<b>632</b>	

CR = Committed Resource  
 NR = New Resource  
 MP = Market Purchase

### Peak-Hour



### Energy

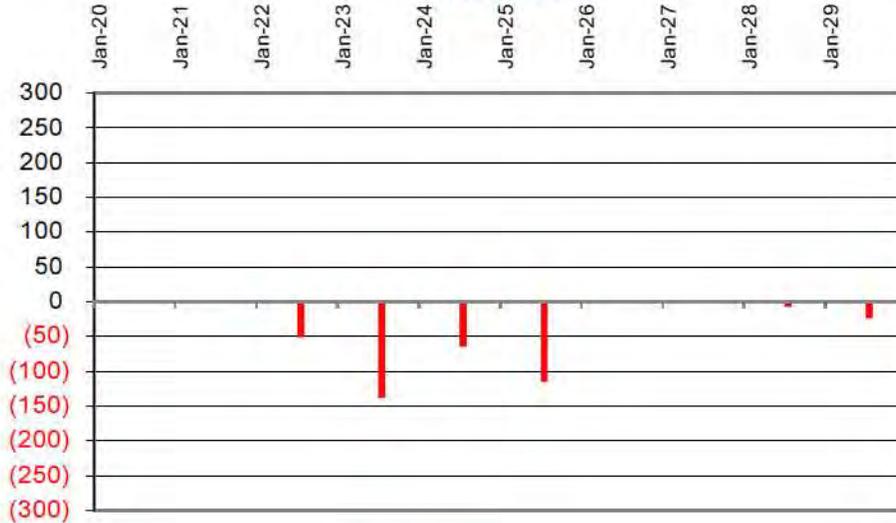


### 2-6 No Coal Curtailment

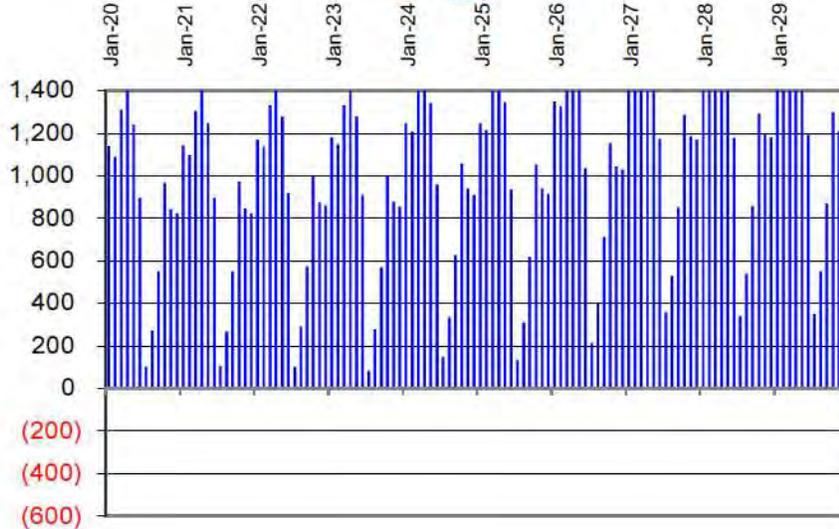
RES	Type	Resource	Nameplate		Energy	Peak	Cum. Energy	Cum. Peak	Cum. RES MW	Cum. RES MWh
			MW	Year						
		Large Aero	100	2020	50	100	50	100	0	-
				2021			50	100	32	280,320
RES	NR	Wind	100	2022	30	5	80	105	32	280,320
				2023			80	105	32	280,320
		Large Aero	100	2024	50	100	130	205	32	280,320
				2025			130	205	32	280,320
	NR	Large Aero	200	2026	100	200	230	405	32	280,320
RES	NR	Wind	400	2027	128	20	358	425	96	840,960
				2027			358	425	96	840,960
				2028			358	425	96	840,960
				2029			358	425	96	840,960
							<b>Min</b>	<b>84</b>	<b>(138)</b>	
							<b>STDEV</b>	<b>432</b>	<b>245</b>	
							<b>AVG</b>	<b>1,029</b>	<b>550</b>	

CR = Committed Resource  
 NR = New Resource  
 MP = Market Purchase

Peak-Hour



Energy



## Resource Portfolio Modeling Assumptions

Time Period	Figure Name	Coal Curtailment <sup>1</sup>	Carbon Adder <sup>2</sup>	NTTG Transmission Plan <sup>3</sup>	Only IPC Transmission Share of B2H <sup>4</sup>	Limited Coal Curtailment <sup>5</sup>
2010–2019	Base Case, Coal Curtailment <i>Used in first 10-year Portfolio Selection Process</i>	X			X	
2010–2019	Base Case, Coal Curtailment	X		X		
2010–2019	\$43 CO <sub>2</sub> , No Coal Curtailment		X	X		
2010–2019	Current Operations, No Carbon, No Coal Curtailment			X		
2020–2029	Base Case, Coal Curtailment <i>Used in second 10-Year Portfolio Selection Process</i>	X		X		2-5 Only
2020–2029	\$43 CO <sub>2</sub> , No Coal Curtailment		X	X		
2020–2029	Current Operations, No Carbon, No Coal Curtailment			X		

<sup>1</sup>Idaho Power coal plants are curtailed to comply with HR 2454

<sup>2</sup>\$43 per ton added starting in 2012

<sup>3</sup>Includes all NTTG projects at estimated capacity estimate ratings

<sup>4</sup>Transmission paths in the Aurora model are unconstrained to levels of anticipated use by Idaho Power

<sup>5</sup>Coal curtailed to 2020 targets (partial HR 2454 compliance)

**RESOURCE PORTFOLIO ANALYSIS**  
**Base Case, Coal Curtailment (2010–2019)**

Base Case—Coal Curtailment	1-3 Gas			
	1-1 Solar	1-2 Gas (Peaker)	(Peaker & B2H)	1-4 B2H
Capital Costs 2009 (\$ Total)	\$ 1,264,351,176	\$ 266,751,176	\$ 249,551,176	\$ 96,951,176
Capital Costs NPV (\$ 20 Year)	\$ 621,711,410	\$ 239,909,076	\$ 178,705,464	\$ 107,198,820
Aurora NPV Portfolio Total Cost	\$ 1,963,326,421	\$ 2,066,337,264	\$ 2,032,468,672	\$ 2,063,765,789
<b>NPV Total = Aurora + Capital</b>	<b>\$ 2,585,037,830</b>	<b>\$ 2,306,246,340</b>	<b>\$ 2,211,174,136</b>	<b>\$ 2,170,964,609</b>
CO <sub>2</sub> Excess Emissions (Tons)	117,808	288,017	429,833	258,563
RES Excess Green Tags year 2019	684,156	193,596	193,596	193,596
<b>Carbon Allowances Estimates</b>	<b>117,808</b>	<b>288,017</b>	<b>429,833</b>	<b>258,563</b>
Boxer/Kerry Price Cap Proposal NPV	\$ (263,462)	\$ 1,467,059	\$ 5,163,204	\$ 1,839,437
<b>2019 Res Position Estimates</b>	<b>684,156</b>	<b>193,596</b>	<b>193,596</b>	<b>193,596</b>
RES NPV \$ Estimates Yr 1–10				
Expected Value (Cost Reduction)	\$ (46,921,264)	\$ (37,338,255)	\$ (37,338,255)	\$ (37,338,255)
Transmission	\$ 13,163,761	\$ 10,977,415	\$ 55,403,269	\$ 94,451,794
<b>Expected Portfolio Cost</b>	<b>\$ 2,551,016,864</b>	<b>\$ 2,281,352,560</b>	<b>\$ 2,234,402,354</b>	<b>\$ 2,229,917,585</b>
<b>Rank by Least Cost</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>Difference</b>	<b>\$ 321,099,279</b>	<b>\$ 51,434,974</b>	<b>\$ 4,484,769</b>	<b>\$ -</b>
<b>Risk Factors</b>				
CO <sub>2</sub> \$43 (Incremental)	\$ 4,802,283	\$ 13,851,809	\$ 23,646,013	\$ 12,957,638
RES NPV \$ Estimates Yr 1–10				
High Value (Additional to Expected)	\$ (55,685,534)	\$ (41,902,289)	\$ (41,902,289)	\$ (41,902,289)
DSM 50% Realization (Cost Difference)	\$ 51,876,928	\$ 38,966,959	\$ 71,495,131	\$ 40,522,318
High Load Growth (Cost Difference)	\$ 290,681,839	\$ 288,768,701	\$ 320,277,146	\$ 289,732,784
Gas Price				
High NG Prices differential from Low	\$ (36,516,721)	\$ (40,577,759)	\$ (7,744,434)	\$ (38,094,952)
Transmission B2H				
With 3rd-Party Participation NPV			(\$16,726,745)	(\$46,086,195)
<b>Total Risk Cost</b>	<b>\$ 255,158,795</b>	<b>\$ 259,107,422</b>	<b>\$ 349,044,823</b>	<b>\$ 217,129,304</b>
<b>Rank by Least Risk</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>
<b>Difference</b>	<b>\$ 38,029,491</b>	<b>\$ 41,978,118</b>	<b>\$ 131,915,519</b>	<b>\$ -</b>
<b>Portfolio Differences w/Cost Risk Adj</b>				
High	\$ 631,943,608	\$ 352,444,685	\$ 395,431,881	\$ 259,031,593

## RESOURCE PORTFOLIO ANALYSIS

## Base Case, Coal Curtailment (2010–2019)

Base Case—Coal Curtailment	1-1 Solar	1-2 Gas Peaker	1-3 Gas Peaker & B2H	1-4 B2H
Capital Costs 2009 (\$ Total)	\$ 1,328,502,353	\$ 363,702,353	\$ 346,502,353	\$ 193,902,353
Capital Costs NPV \$ 20 Year	\$ 621,711,410	\$ 239,909,076	\$ 178,705,464	\$ 107,198,820
Aurora NPV Portfolio Total Cost	\$ 1,976,455,828	\$ 2,021,669,045	\$ 2,017,973,554	\$ 2,021,858,588
<b>NPV Total = Aurora + Capital</b>	<b>\$ 2,598,167,238</b>	<b>\$ 2,261,578,121</b>	<b>\$ 2,196,679,018</b>	<b>\$ 2,129,057,408</b>
CO <sub>2</sub> Excess Emissions (Tons)	(9,258)	57,787	213,135	73,737
RES Excess Green Tags year 2019	684,156	193,596	193,596	193,596
<b>Carbon Allowances Needed Estimates</b>	<b>(9,258)</b>	<b>57,787</b>	<b>213,135</b>	<b>73,737</b>
Boxer/Kerry Price Cap Proposal NPV	\$ (263,462)	\$ 1,467,059	\$ 5,163,204	\$ 1,839,437
<b>2019 Res Position Estimates</b>	<b>684,156</b>	<b>193,596</b>	<b>193,596</b>	<b>193,596</b>
RES NPV \$ Estimates Yr 1–10				
Expected Value (Cost Reduction)	\$ (46,921,264)	\$ (37,338,255)	\$ (37,338,255)	\$ (37,338,255)
Transmission	\$ 13,163,761	\$ 10,977,415	\$ 55,403,269	\$ 94,451,794
<b>Expected Portfolio Cost</b>	<b>\$ 2,564,146,272</b>	<b>\$ 2,236,684,340</b>	<b>\$ 2,219,907,236</b>	<b>\$ 2,188,010,384</b>
<b>Rank</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>Difference NPV 1–10 Years</b>	<b>\$ 376,135,888</b>	<b>\$ 48,673,956</b>	<b>\$ 31,896,852</b>	<b>\$ -</b>
<b>Risk Factors</b>				
CO <sub>2</sub> \$43 (Incremental)	\$ (661,560)	\$ 3,951,893	\$ 14,327,997	\$ 5,010,136
RES NPV \$ Estimates Yr 1-10				
High Value (Additional to Expected)	\$ (55,685,534)	\$ (41,902,289)	\$ (41,902,289)	\$ (41,902,289)
DSM 50% Realization (Cost Difference)	\$ 27,566,134	\$ 88,116,160	\$ 85,454,235	\$ 87,129,172
High Load Growth (Cost Difference)	\$ 267,685,288	\$ 327,202,920	\$ 325,597,765	\$ 327,887,601
Gas Price				
High NG Prices differential from Low	\$ (49,646,128)	\$ 4,090,460	\$ 6,750,684	\$ 3,812,250
Transmission B2H				
No resell IPC Outbound NPV			\$ (16,726,745)	\$ (46,086,195)
No Third Party Participation 1–10 Years (Not Included in totals below)			\$211,215,269	\$201,526,193
11–20 Year Transmission Rev Req IPC Sells Outbound			\$47,299,585	\$59,148,872
11–20 Year Transmission Rev Req IPC Does Not Sell Outbound			\$67,755,614	\$115,510,138.56
11–20 Year Trans Rev Req IPC No Third Party Participation			\$600,050,525	\$600,050,525.21
<b>Portfolio Differences w/Cost Risk Adj</b>				
High	\$ 621,079,622	\$ 472,035,389	\$ 447,300,789	\$ 377,752,964
<b>High w/Transmission</b>	<b>\$ 574,993,427</b>	<b>\$ 425,949,195</b>	<b>\$ 401,214,594</b>	<b>\$ 377,752,964</b>
Low	\$ 565,394,088	\$ 430,133,100	\$ 405,398,500	\$ 335,850,675
<b>Low w/Transmission</b>	<b>\$ 519,307,893</b>	<b>\$ 384,046,905</b>	<b>\$ 359,312,305</b>	<b>\$ 335,850,675</b>
<b>Rank</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>

**RESOURCE PORTFOLIO ANALYSIS**  
**\$43 CO<sub>2</sub>, No Coal Curtailment (2010–2019)**

<b>\$43 CO<sub>2</sub>—No Coal Curtailment</b>	<b>1-1 Solar</b>	<b>1-2 Gas Peaker</b>	<b>1-3 Gas Peaker &amp; B2H</b>	<b>1-4 B2H</b>
Capital Costs 2009 (\$ Total)	\$ 1,328,502,353	\$ 363,702,353	\$ 346,502,353	\$ 193,902,353
Capital Costs NPV 20-Year	\$ 621,711,410	\$ 239,909,076	\$ 178,705,464	\$ 107,198,820
Aurora NPV Portfolio Total Cost	\$ 3,613,437,405	\$ 3,701,347,429	\$ 3,703,473,275	\$ 3,698,952,139
<b>NPV Total = Aurora + Capital</b>	<b>\$ 4,235,148,815</b>	<b>\$ 3,941,256,505</b>	<b>\$ 3,882,178,739</b>	<b>\$ 3,806,150,959</b>
CO <sub>2</sub> Excess Emissions (Tons)	7,758,441	7,705,353	8,323,589	7,584,025
RES Excess Green Tags year 2019	684,156	193,596	193,596	193,596
2019 Res Position	684,156	193,596	193,596	193,596
RES Net Valuation Estimates Yr 1–10 Expected Value (Cost Reduction)	\$ (46,921,264)	\$ (37,338,255)	\$ (37,338,255)	\$ (37,338,255)
Transmission B2H Fully Subscribed NPV	\$ 13,163,761	\$ 10,977,415	\$ 55,403,269	\$ 94,451,794
<b>Expected Portfolio Cost</b>	<b>\$ 4,201,391,311</b>	<b>\$ 3,914,895,665</b>	<b>\$ 3,900,243,754</b>	<b>\$ 3,863,264,498</b>
<b>Rank</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>Difference</b>	<b>\$ 338,126,813</b>	<b>\$ 51,631,167</b>	<b>\$ 36,979,255</b>	<b>\$ -</b>

## RESOURCE PORTFOLIO ANALYSIS

## Current Operations, No Carbon, No Coal Curtailment (2010–2019)

<b>Current Operations, No carbon, No Curtailment</b>	<b>1-1 Solar</b>	<b>1-2 Gas Peaker</b>	<b>1-3 Gas Peaker &amp; B2H</b>	<b>1-4 B2H</b>
Capital Costs 2009 (\$ Total)	\$ 1,328,502,353	\$ 363,702,353	\$ 346,502,353	\$ 193,902,353
Capital Costs NPV 20-Year	\$ 621,711,410	\$ 239,909,076	\$ 178,705,464	\$ 107,198,820
Aurora NPV Portfolio Total Cost	\$ 1,907,178,616	\$ 2,001,439,129	\$ 2,000,008,019	\$ 2,001,618,009
<b>NPV Total = Aurora + Capital</b>	<b>\$ 2,528,890,026</b>	<b>\$ 2,241,348,205</b>	<b>\$ 2,178,713,483</b>	<b>\$ 2,108,816,829</b>
CO <sub>2</sub> Excess Emissions (Tons)	5,272,549	5,312,589	5,453,587	5,364,722
RES Excess Green Tags year 2019	684,156	193,596	193,596	193,596
<b>Carbon Allowances Needed Estimates</b>	<b>5,272,549</b>	<b>5,312,589</b>	<b>5,453,587</b>	<b>5,364,722</b>
Boxer/Kerry Price Cap Proposal NPV	\$ 127,454,073	\$ 128,498,367	\$ 131,857,808	\$ 129,738,767
2019 Res Position	684,156	193,596	193,596	193,596
RES Net Valuation Estimates Yr 1–10 Expected Value (Cost Reduction)	\$ (46,921,264)	\$ (37,338,255)	\$ (37,338,255)	\$ (37,338,255)
Transmission B2H Fully Subscribed NPV	\$ 13,163,761	\$ 10,977,415	\$ 55,403,269	\$ 94,451,794
<b>Expected Portfolio Cost</b>	<b>\$ 2,622,586,596</b>	<b>\$ 2,343,485,731</b>	<b>\$ 2,328,636,306</b>	<b>\$ 2,295,669,136</b>
<b>Rank</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>Difference</b>	<b>\$ 326,917,459</b>	<b>\$ 47,816,595</b>	<b>\$ 32,967,170</b>	<b>\$ -</b>

**RESOURCE PORTFOLIO ANALYSIS**  
**Base Case, Coal Curtailment (2020–2029)**

<b>Base Case—Coal Curtailment</b>	<b>2-1 Nuclear Green</b>	<b>2-2 Gateway West</b>	<b>2-3 IGCC</b>	<b>2-4 Wind &amp; Peakers</b>	<b>2-5 Limited Coal Curtailment</b>
Capital Costs 2009 (\$ Total)	\$ 5,834,274,000	\$ 355,600,000	\$ 5,123,200,000	\$ 1,957,200,000	\$ 762,300,000
Capital Costs NPV\$ 20 Year	\$ 2,267,193,086	\$ 150,871,393	\$ 1,724,352,346	\$ 479,620,560	\$ 241,162,616
Aurora NPV Portfolio Total Cost	\$ 948,612,021	\$ 1,805,716,731	\$ 1,106,374,123	\$ 1,671,794,651	\$ 1,461,869,774
<b>NPV Total = Aurora + Capital</b>	<b>\$ 3,215,805,108</b>	<b>\$ 1,956,588,124</b>	<b>\$ 2,830,726,469</b>	<b>\$ 2,151,415,212</b>	<b>\$ 1,703,032,390</b>
CO <sub>2</sub> Excess Emissions (Tons)	6,186,401	7,268,164	6,401,005	8,328,556	26,657,888
RES Excess Green Tags year 2019	1,267,572	(7,884)	167,316	815,556	272,436
Carbon Allowances Needed Estimates	6,186,401	7,268,164	6,401,005	8,328,556	26,657,888
Boxer/Kerry Price Cap Proposal NPV	\$ (30,674,006)	\$ (8,100,874)	\$ (26,194,772)	\$ 14,030,419	\$ 396,574,720
<b>2029 Res Position Estimates</b>	<b>1,267,572</b>	<b>(7,884)</b>	<b>167,316</b>	<b>815,556</b>	<b>272,436</b>
RES NPV \$ Estimates Yr 1–10					
Expected Value (Cost Reduction)	\$ (99,699,468)	\$ (1,485,655)	\$ 8,518,747	\$ (17,665,567)	\$ (6,796,825)
Transmission Estimate NPV	\$ 849,733,630	\$ 1,408,824,342	\$ 768,798,180.04	\$ 452,114,922	\$ 207,800,668.18
<b>Expected Portfolio Cost</b>	<b>\$ 3,935,165,264</b>	<b>\$ 3,355,825,937</b>	<b>\$ 3,581,848,625</b>	<b>\$ 2,599,894,987</b>	<b>\$ 2,300,610,952</b>
<b>Rank by Least Cost</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>1</b>
<b>Difference</b>	<b>\$ 1,634,554,312</b>	<b>\$ 1,055,214,985</b>	<b>\$ 1,281,237,672</b>	<b>\$ 299,284,034</b>	<b>\$ -</b>
<b>Risk Factors</b>					
CO <sub>2</sub> \$43 (Incremental)	\$ 296,689,242	\$ 320,631,927	\$ 301,438,004	\$ 344,097,492	\$ 749,714,446
RES NPV \$ Estimates Yr 11–20					
High Value (Additional to Expected)	\$ (149,549,202)	\$ (2,228,482)	\$ 12,778,121	\$ (26,498,351)	\$ (10,195,238)
DSM 50% Realization (Cost Difference)	\$ 110,191,842	\$ 116,351,682	\$ 113,762,113	\$ 116,777,644	\$ 24,354,437
High Load Growth (Cost Difference)	\$ 465,800,512	\$ 486,161,488	\$ 473,734,605	\$ 486,948,952	\$ 392,322,637
Gas Price					
High NG Prices sensitivity	\$ (83,134,652)	\$ 199,963,861	\$ (96,394,526)	\$ 294,198,968	\$ (97,212,291)
Transmission B2H					
Zero 3rd-Party Participation NPV					
<b>Total Risk Cost</b>	<b>\$ 639,997,742</b>	<b>\$ 1,120,880,476</b>	<b>\$ 805,318,318</b>	<b>\$ 1,215,524,706</b>	<b>\$ 1,058,983,991</b>
<b>Rank by Least Risk</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>5</b>	<b>3</b>
<b>Difference</b>	<b>\$ -</b>	<b>\$ 480,882,734</b>	<b>\$ 165,320,575</b>	<b>\$ 575,526,964</b>	<b>\$ 418,986,249</b>
<b>Portfolio Differences w/Cost Risk Adj</b>					
High	\$ 2,424,101,255	\$ 2,178,323,943	\$ 2,073,777,869	\$ 1,541,307,091	\$ 1,069,179,229
<b>High w/Transmission</b>	<b>\$ 2,424,101,255</b>	<b>\$ 2,178,323,943</b>	<b>\$ 2,073,777,869</b>	<b>\$ 1,541,307,091</b>	<b>\$ 1,069,179,229</b>
Low	\$ 2,573,650,457	\$ 2,180,552,425	\$ 2,060,999,748	\$ 1,567,805,441	\$ 1,079,374,467
<b>Low w/Transmission</b>	<b>\$ 2,573,650,457</b>	<b>\$ 2,180,552,425</b>	<b>\$ 2,060,999,748</b>	<b>\$ 1,567,805,441</b>	<b>\$ 1,079,374,467</b>
<b>Rank</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>

RESOURCE PORTFOLIO ANALYSIS  
\$43 CO<sub>2</sub>, No Coal Curtailment (2020–2029)

\$43 CO <sub>2</sub> —No Coal Curtailment	2-1 Nuclear/Green	2-2 Gateway West	2-3 IGCC	2-4 Wind & Peakers	2-5 Limited Coal Curtailment
Capital Costs 2009 (\$ Total)	\$ 5,834,274,000	\$ 355,600,000	\$ 5,123,200,000	\$ 1,957,200,000	\$ 762,300,000
Capital Costs NPV \$20 Year	\$ 2,267,193,086	\$ 150,871,393	\$ 1,724,352,346	\$ 479,620,560	\$ 241,162,616
Aurora NPV Portfolio Total Cost	\$ 1,684,893,917	\$ 2,689,899,037	\$ 1,878,056,113	\$ 2,646,447,583	\$ 2,689,352,379
<b>NPV Total = Aurora + Capital</b>	<b>\$ 3,952,087,004</b>	<b>\$ 2,840,770,430</b>	<b>\$ 3,602,408,459</b>	<b>\$ 3,126,068,143</b>	<b>\$ 2,930,514,994</b>
CO <sub>2</sub> Excess Emissions (Tons)	-	-	-	-	-
RES Excess Green Tags year 2019	1,267,572	(7,884)	167,316	815,556	272,436
Carbon Allowances Needed Estimates	-	-	-	-	-
<b>Boxer/Kerry Price Cap Proposal NPV</b>	<b>\$ (30,674,006)</b>	<b>\$ (8,100,874)</b>	<b>\$ (26,194,772)</b>	<b>\$ 14,030,419</b>	<b>\$ 396,574,720</b>
<b>2029 Res Position Estimates</b>	<b>1,267,572</b>	<b>(7,884)</b>	<b>167,316</b>	<b>815,556</b>	<b>272,436</b>
RES NPV \$ Estimates Yr 1–10					
Expected Value (Cost Reduction)	\$ (99,699,468)	\$ (1,485,655)	\$ 8,518,747	\$ (17,665,567)	\$ (6,796,825)
Transmission Estimate NPV	\$ 849,733,630	\$ 1,408,824,342	\$768,798,180.04	\$452,114,922	\$207,800,668.18
<b>Expected Portfolio Cost</b>	<b>\$ 4,671,447,160</b>	<b>\$ 4,240,008,243</b>	<b>\$ 4,353,530,615</b>	<b>\$ 3,574,547,918</b>	<b>\$ 3,528,093,556</b>
<b>Rank by Least Cost</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>1</b>
<b>Difference</b>	<b>\$ 1,143,353,603</b>	<b>\$ 711,914,687</b>	<b>\$ 825,437,058</b>	<b>\$ 46,454,362</b>	<b>\$ -</b>

## RESOURCE PORTFOLIO ANALYSIS

Current Operations, No Carbon, No Coal Curtailment (2020–2029)

Current Operations No carbon No curtailment	2-1 Nuclear/Green	2-2 Gateway West	2-3 IGCC	2-4 Wind & Peakers	2-5 Limited Coal Curtailment
Capital Costs 2009 (\$ Total)	\$ 5,834,274,000	\$ 355,600,000	\$ 5,123,200,000	\$ 1,957,200,000	\$ -
Capital Costs NPV \$20 Year	\$ 2,267,193,086	\$ 150,871,393	\$ 1,724,352,346	\$ 479,620,560	\$ -
Aurora NPV Portfolio Total Cost	\$ 664,260,485	\$ 1,331,464,010	\$ 807,979,508	\$ 1,251,035,806	\$ -
<b>NPV Total = Aurora + Capital</b>	<b>\$ 2,931,453,572</b>	<b>\$ 1,482,335,403</b>	<b>\$ 2,532,331,854</b>	<b>\$ 1,730,656,367</b>	<b>\$ -</b>
CO <sub>2</sub> Excess Emissions (Tons)	41,437,283	42,239,982	41,302,614	42,968,883	-
RES Excess Green Tags year 2019	1,267,572	(7,884)	167,316	815,556	-
Carbon Allowances Needed Estimates	41,437,283	42,239,982	41,302,614	42,968,883	-
<b>Boxer/Kerry Price Cap Proposal NPV</b>	<b>\$ (30,674,006)</b>	<b>\$ (8,100,874)</b>	<b>\$ (26,194,772)</b>	<b>\$ 14,030,419</b>	<b>\$ 396,574,720</b>
<b>2029 Res Position Estimates</b>	<b>1,267,572</b>	<b>(7,884)</b>	<b>167,316</b>	<b>815,556</b>	<b>-</b>
RES NPV \$ Estimates Yr 1–10					
Expected Value (Cost Reduction)	\$ (99,699,468)	\$ (1,485,655)	\$ 8,518,747	\$ (17,665,567)	\$ (6,796,825)
Transmission Estimate NPV	\$ 849,733,630	\$ 1,408,824,342	\$768,798,180.04	\$452,114,922	\$207,800,668.18
<b>Expected Portfolio Cost</b>	<b>\$ 3,650,813,728</b>	<b>\$ 2,881,573,215</b>	<b>\$ 3,283,454,009</b>	<b>\$ 2,179,136,141</b>	<b>\$ 597,578,562</b>
<b>Rank by Least Cost</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>1</b>
<b>Difference</b>	<b>\$ 3,650,813,728</b>	<b>\$ 2,881,573,215</b>	<b>\$ 3,283,454,009</b>	<b>\$ 2,179,136,141</b>	<b>\$ 597,578,562</b>

## 2009 Integrated Resource Plan

## Idaho Power Transmission Rate Approximation for 2009 IRP Analysis

## Portfolio 2-5

Project	Capital Cost
Gateway 19% owned by IPCo (300/1600)	\$ 337,500,000
300 Wind	Included in GW
1050 Existing Coal	

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**Annual Revenue Requirements**


---

Existing Revenue Requirements.....	\$	106,566,650
Existing Revenue Credits.....	\$	(17,510,193)
Existing Net Revenue Requirements.....	\$	89,056,456
<b>New Project Capital</b>	<b>\$</b>	<b>337,500,000</b>
New Revenue Requirements for Project(s).....	\$	54,023,495
New Net Revenue Requirements.....	\$	143,079,951

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**System Use (in MW)**


---

Existing System Peak Demand.....	5,627
<b>Future additional IPC Network Use</b>	<b>300</b>
New System Demand—Including new uses.....	5,927

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**Point-To-Point Transmission Rate**


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a) Existing Rate—\$/kW-yr.....	\$	15.83
b) New Rate without 3rd-Party Use—\$/kW-yr.....	\$	24.14

---

**Point-To-Point Revenue Adjustments (incremental change to Existing Revenue Credits)**


---

Change in existing uses (increase > 100%).....	100%
Existing uses adjusted at new rate b).....	\$ (9,198,010)

---

**Network Transmission Revenue Requirements**


---

<b>a) Existing</b>		
BPA Load Ratio Share.....	\$	4,237,114
Long-Term PTP Revenue.....	\$	7,375,757
Legacy Contract Revenue.....	\$	6,742,822
Assigned to IPC Retail Load Service.....	\$	70,700,764
<b>b) Future - New Projects without additional participation</b>		
BPA Load Ratio Share.....	\$	6,028,365
Long-Term PTP Revenue.....	\$	11,250,202
Legacy Contract Revenue.....	\$	6,742,822
Assigned to IPC Retail Load Service.....	\$	119,058,562
<b>Net change</b>	<b>\$</b>	<b>48,357,798</b>

## 2009 Integrated Resource Plan

## Idaho Power Transmission Rate Approximation for 2009 IRP Analysis

## Portfolio 1-2

Project	Capital Cost
Two 170 MW Peakers at Langley	\$ 22,000,000

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**Annual Revenue Requirements**


---

Existing Revenue Requirements.....	\$	106,566,650
Existing Revenue Credits.....	\$	(17,510,193)
Existing Net Revenue Requirements.....	\$	89,056,456
<b>New Project Capital</b>	<b>\$</b>	<b>22,000,000</b>
New Revenue Requirements for Project(s).....	\$	3,521,532
New Net Revenue Requirements.....	\$	92,577,988

---

**System Use (in MW)**


---

Existing System Peak Demand.....	5,627
<b>Future additional IPC Network Use</b>	<b>340</b>
New System Demand—Including new uses.....	5,967

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**Point-To-Point Transmission Rate**


---

a) Existing Rate—\$/kW-yr.....	\$	15.83
b) New Rate without 3rd-Party Use—\$/kW-yr.....	\$	15.52

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**Point-To-Point Revenue Adjustments (incremental change to Existing Revenue Credits)**


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Change in existing uses (increase > 100%).....	100%
Existing uses adjusted at new rate b).....	\$ 344,857

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**Network Transmission Revenue Requirements**


---

<b>a) Existing</b>		
BPA Load Ratio Share.....	\$	4,237,114
Long-Term PTP Revenue.....	\$	7,375,757
Legacy Contract Revenue.....	\$	6,742,822
Assigned to IPC Retail Load Service.....	\$	70,700,764
<b>b) Future</b>		
BPA Load Ratio Share.....	\$	4,154,388
Long-Term PTP Revenue.....	\$	7,230,494
Legacy Contract Revenue.....	\$	6,742,822
Assigned to IPC Retail Load Service.....	\$	74,450,284
<b>Net change</b>	<b>\$</b>	<b>3,749,520</b>

## 2009 Integrated Resource Plan

## Idaho Power Transmission Rate Approximation for 2009 IRP Analysis

Portfolio 1-3 with additional 3rd party subscription

Project	Capital Cost
B2H 11% Owned by IPCo (250/2300)	\$ 65,217,391
Two 100MW Aeros at Langley	\$ 22,000,000

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**Annual Revenue Requirements**


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Existing Revenue Requirements.....	\$ 106,566,650
Existing Revenue Credits.....	\$ (17,510,193)
Existing Net Revenue Requirements.....	\$ 89,056,456
<b>New Project Capital</b>	<b>\$ 87,217,391</b>
New Revenue Requirements for Project(s).....	\$ 13,960,854
New Net Revenue Requirements.....	\$ 103,017,310

---

**System Use (in MW)**


---

Existing System Peak Demand.....	5,627
<b>Future additional IPC Network Use</b>	<b>450</b>
New System Demand—Including new uses.....	6,077

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**Point-To-Point Transmission Rate**


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a) Existing Rate—\$/kW-yr.....	\$ 15.83
b) New Rate without 3rd-Party Use—\$/kW-yr.....	\$ 16.95

---

**Point-To-Point Revenue Adjustments (incremental change to Existing Revenue Credits)**


---

Change in existing uses (increase > 100%).....	100%
Existing uses adjusted at new rate b).....	\$ (1,244,978)

---

**Network Transmission Revenue Requirements**


---

<b>a) Existing</b>	
BPA Load Ratio Share.....	\$ 4,237,114
Long-Term PTP Revenue.....	\$ 7,375,757
Legacy Contract Revenue.....	\$ 6,742,822
Assigned to IPC Retail Load Service.....	\$ 70,700,764
<b>b) Future - B2H with additional participation</b>	
BPA Load Ratio Share.....	\$ 4,462,935
Long-Term PTP Revenue.....	\$ 7,900,174
Legacy Contract Revenue.....	\$ 6,742,822
Assigned to IPC Retail Load Service.....	\$ 83,911,380
<b>Net change</b>	<b>\$ 13,210,615</b>

## 2009 Integrated Resource Plan

## Idaho Power Transmission Rate Approximation for 2009 IRP Analysis

Portfolio 1-3 without additional 3rd party subscription

Project	Capital Cost
B2H 22% Owned by IPCo (500/2300)	\$ 130,434,783
Two 100MW Aeros at Langley	\$ 22,000,000

## Annual Revenue Requirements

Existing Revenue Requirements.....	\$ 106,566,650
Existing Revenue Credits.....	\$ (17,510,193)
Existing Net Revenue Requirements.....	\$ 89,056,456
<b>New Project Capital</b>	<b>\$ 152,434,783</b>
New Revenue Requirements for Project(s).....	\$ 24,400,177
New Net Revenue Requirements.....	\$ 113,456,633

## System Use (in MW)

Existing System Peak Demand.....	5,627
<b>Future additional IPC Network Use</b>	<b>450</b>
New System Demand—Including new uses.....	6,077

## Point-To-Point Transmission Rate

a) Existing Rate—\$/kW-yr.....	\$ 15.83
b) New Rate without 3rd-Party Use—\$/kW-yr.....	\$ 18.67

## Point-To-Point Revenue Adjustments (incremental change to Existing Revenue Credits)

Change in existing uses (increase > 100%).....	100%
Existing uses adjusted at new rate b).....	\$ (3,145,545)

## Network Transmission Revenue Requirements

<b>a) Existing</b>	
BPA Load Ratio Share.....	\$ 4,237,114
Long-Term PTP Revenue.....	\$ 7,375,757
Legacy Contract Revenue.....	\$ 6,742,822
Assigned to IPC Retail Load Service.....	\$ 70,700,764
<b>b) Future - B2H without additional participation</b>	
BPA Load Ratio Share.....	\$ 4,837,378
Long-Term PTP Revenue.....	\$ 8,700,743
Legacy Contract Revenue.....	\$ 6,742,822
Assigned to IPC Retail Load Service.....	\$ 93,175,690
<b>Net change</b>	<b>\$ 22,474,926</b>

## 2009 Integrated Resource Plan

## Idaho Power Transmission Rate Approximation for 2009 IRP Analysis

Portfolio 1-4 with additional 3rd party subscription

Project	Capital Cost
B2H 19% owned by IPCo (425/2300)	\$ 110,869,565
450 Market Purchase	included in B2H

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**Annual Revenue Requirements**


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Existing Revenue Requirements.....	\$	106,566,650
Existing Revenue Credits.....	\$	(17,510,193)
Existing Net Revenue Requirements.....	\$	89,056,456
<b>New Project Capital</b>	<b>\$</b>	<b>110,869,565</b>
New Revenue Requirements for Project(s).....	\$	17,746,849
New Net Revenue Requirements.....	\$	106,803,305

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**System Use (in MW)**


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Existing System Peak Demand.....	5,627
<b>Future additional IPC Network Use</b>	<b>425</b>
New System Demand—Including new uses.....	6,052

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**Point-To-Point Transmission Rate**


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a) Existing Rate—\$/kW-yr.....	\$	15.83
b) New Rate without 3rd-Party Use—\$/kW-yr.....	\$	17.65

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**Point-To-Point Revenue Adjustments (incremental change to Existing Revenue Credits)**


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Change in existing uses (increase > 100%).....	100%
Existing uses adjusted at new rate b).....	\$ (2,014,578)

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**Network Transmission Revenue Requirements**


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<b>a) Existing</b>		
BPA Load Ratio Share.....	\$	4,237,114
Long-Term PTP Revenue.....	\$	7,375,757
Legacy Contract Revenue.....	\$	6,742,822
Assigned to IPC Retail Load Service.....	\$	70,700,764
<b>b) Future - B2H with additional participation</b>		
BPA Load Ratio Share.....	\$	4,615,289
Long-Term PTP Revenue.....	\$	8,224,350
Legacy Contract Revenue.....	\$	6,742,822
Assigned to IPC Retail Load Service.....	\$	87,220,844
<b>Net change</b>	<b>\$</b>	<b>16,520,080</b>

## 2009 Integrated Resource Plan

## Idaho Power Transmission Rate Approximation for 2009 IRP Analysis

Portfolio 1-4 without additional 3rd party subscription

Project	Capital Cost
B2H 37% owned by IPCo (850/2300)	\$ 221,739,130
450 Market Purchase	included in B2H

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**Annual Revenue Requirements**


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Existing Revenue Requirements.....	\$	106,566,650
Existing Revenue Credits.....	\$	(17,510,193)
Existing Net Revenue Requirements.....	\$	89,056,456
<b>New Project Capital</b>	<b>\$</b>	<b>221,739,130</b>
New Revenue Requirements for Project(s).....	\$	35,493,697
New Net Revenue Requirements.....	\$	124,550,153

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**System Use (in MW)**


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Existing System Peak Demand.....	5,627
<b>Future additional IPC Network Use</b>	<b>425</b>
New System Demand—Including new uses.....	6,052

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**Point-To-Point Transmission Rate**


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a) Existing Rate—\$/kW-yr.....	\$	15.83
b) New Rate without 3rd-Party Use—\$/kW-yr.....	\$	20.58

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**Point-To-Point Revenue Adjustments (incremental change to Existing Revenue Credits)**


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Change in existing uses (increase > 100%).....	100%
Existing uses adjusted at new rate b).....	\$ (5,258,889)

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**Network Transmission Revenue Requirements**


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<b>a) Existing</b>		
BPA Load Ratio Share.....	\$	4,237,114
Long-Term PTP Revenue.....	\$	7,375,757
Legacy Contract Revenue.....	\$	6,742,822
Assigned to IPC Retail Load Service.....	\$	70,700,764
<b>b) Future - B2H without additional participation</b>		
BPA Load Ratio Share.....	\$	5,254,035
Long-Term PTP Revenue.....	\$	9,590,940
Legacy Contract Revenue.....	\$	6,742,822
Assigned to IPC Retail Load Service.....	\$	102,962,357
<b>Net change</b>	<b>\$</b>	<b>32,261,593</b>

## 2009 Integrated Resource Plan

## Idaho Power Transmission Rate Approximation for 2009 IRP Analysis

## Portfolio 2-1

Project	Capital Cost
Gateway 44% owned by IPCo (1020/2300)	\$ 1,316,021,739
250 East Side Purchase	included in GW
670 MW Nuclear	included in GW
300 MW Solar	\$ 7,500,000
104 MW Geothermal	\$ 30,000,000

## Annual Revenue Requirements

Existing Revenue Requirements.....	\$ 106,566,650
Existing Revenue Credits.....	\$ (17,510,193)
Existing Net Revenue Requirements.....	\$ 89,056,456
<b>New Project Capital</b>	<b>\$ 1,353,521,739</b>
New Revenue Requirements for Project(s).....	\$ 216,657,702
New Net Revenue Requirements.....	\$ 305,714,159

## System Use (in MW)

Existing System Peak Demand.....	5,627
<b>Future additional IPC Network Use</b>	<b>1,424</b>
New System Demand—Including new uses.....	7,051

## Point-To-Point Transmission Rate

a) Existing Rate—\$/kW-yr.....	\$ 15.83
b) New Rate without 3rd-Party Use—\$/kW-yr.....	\$ 43.36

## Point-To-Point Revenue Adjustments (incremental change to Existing Revenue Credits)

Change in existing uses (increase > 100%).....	100%
Existing uses adjusted at new rate b).....	\$ (30,458,820)

## Network Transmission Revenue Requirements

<b>a) Existing</b>	
BPA Load Ratio Share.....	\$ 4,237,114
Long-Term PTP Revenue.....	\$ 7,375,757
Legacy Contract Revenue.....	\$ 6,742,822
Assigned to IPC Retail Load Service.....	\$ 70,700,764
<b>b) Future - New Projects without additional participation</b>	
BPA Load Ratio Share.....	\$ 10,321,179
Long-Term PTP Revenue.....	\$ 20,205,817
Legacy Contract Revenue.....	\$ 6,742,822
Assigned to IPC Retail Load Service.....	\$ 268,444,341
<b>Net change</b>	<b>\$ 197,743,576</b>

## 2009 Integrated Resource Plan

## Idaho Power Transmission Rate Approximation for 2009 IRP Analysis

## Portfolio 2-2

Project	Capital Cost
Gateway 60% owned by IPCo (900/1500)	\$ 1,780,500,000
MSTI 47% owned by IPCo (700/1500)	\$ 466,666,667
700 MW East Side Purchase (Wyoming)	included in GW
200 MW Wind	Included in GW

## Annual Revenue Requirements

Existing Revenue Requirements.....	\$ 106,566,650
Existing Revenue Credits.....	\$ (17,510,193)
Existing Net Revenue Requirements.....	\$ 89,056,456
<b>New Project Capital</b>	<b>\$ 2,247,166,667</b>
New Revenue Requirements for Project(s).....	\$ 359,703,101
New Net Revenue Requirements.....	\$ 448,759,557

## System Use (in MW)

Existing System Peak Demand.....	5,627
<b>Future additional IPC Network Use</b>	<b>1,600</b>
New System Demand—Including new uses.....	7,227

## Point-To-Point Transmission Rate

a) Existing Rate—\$/kW-yr.....	\$ 15.83
b) New Rate without 3rd-Party Use—\$/kW-yr.....	\$ 62.10

## Point-To-Point Revenue Adjustments (incremental change to Existing Revenue Credits)

Change in existing uses (increase > 100%).....	100%
Existing uses adjusted at new rate b).....	\$ (51,188,896)

## Network Transmission Revenue Requirements

<b>a) Existing</b>	
BPA Load Ratio Share.....	\$ 4,237,114
Long-Term PTP Revenue.....	\$ 7,375,757
Legacy Contract Revenue.....	\$ 6,742,822
Assigned to IPC Retail Load Service.....	\$ 70,700,764
<b>b) Future - New Projects without additional participation</b>	
BPA Load Ratio Share.....	\$ 14,527,165
Long-Term PTP Revenue.....	\$ 28,937,873
Legacy Contract Revenue.....	\$ 6,742,822
Assigned to IPC Retail Load Service.....	\$ 398,551,697
<b>Net change</b>	<b>\$ 327,850,933</b>

## 2009 Integrated Resource Plan

## Idaho Power Transmission Rate Approximation for 2009 IRP Analysis

## Portfolio 2-3

Project	Capital Cost
Gateway 40% owned by IPCo (600/1500) (Aeolus-Hemingway)	\$ 1,187,000,000
300 MW Solar	\$ 7,500,000
400 Large Aero (simco Road)	\$ 32,000,000

## Annual Revenue Requirements

Existing Revenue Requirements.....	\$ 106,566,650
Existing Revenue Credits.....	\$ (17,510,193)
Existing Net Revenue Requirements.....	\$ 89,056,456
<b>New Project Capital</b>	<b>\$ 1,226,500,000</b>
New Revenue Requirements for Project(s).....	\$ 196,325,382
New Net Revenue Requirements.....	\$ 285,381,838

## System Use (in MW)

Existing System Peak Demand.....	5,627
<b>Future additional IPC Network Use</b>	<b>1,300</b>
New System Demand—Including new uses.....	6,927

## Point-To-Point Transmission Rate

a) Existing Rate—\$/kW-yr.....	\$ 15.83
b) New Rate without 3rd-Party Use—\$/kW-yr.....	\$ 41.20

## Point-To-Point Revenue Adjustments (incremental change to Existing Revenue Credits)

Change in existing uses (increase > 100%).....	100%
Existing uses adjusted at new rate b).....	\$ (28,070,146)

## Network Transmission Revenue Requirements

<b>a) Existing</b>	
BPA Load Ratio Share.....	\$ 4,237,114
Long-Term PTP Revenue.....	\$ 7,375,757
Legacy Contract Revenue.....	\$ 6,742,822
Assigned to IPC Retail Load Service.....	\$ 70,700,764
<b>b) Future - New Projects without additional participation</b>	
BPA Load Ratio Share.....	\$ 9,829,717
Long-Term PTP Revenue.....	\$ 19,199,644
Legacy Contract Revenue.....	\$ 6,742,822
Assigned to IPC Retail Load Service.....	\$ 249,609,655
<b>Net change</b>	<b>\$ 178,908,891</b>

## 2009 Integrated Resource Plan

## Idaho Power Transmission Rate Approximation for 2009 IRP Analysis

## Portfolio 2-4

Project	Capital Cost
Gateway 31% owned by IPCo (600/1600)	\$ 675,000,000
500 Wind	Included in GW
100 MW East Side Purchase	included in GW
300 MW Aeros at Langley	\$ 22,000,000
1100 MW Aeros At Simco	\$ 102,000,000

## Annual Revenue Requirements

Existing Revenue Requirements.....	\$ 106,566,650
Existing Revenue Credits.....	\$ (17,510,193)
Existing Net Revenue Requirements.....	\$ 89,056,456
<b>New Project Capital</b>	<b>\$ 799,000,000</b>
New Revenue Requirements for Project(s).....	\$ 127,895,622
New Net Revenue Requirements.....	\$ 216,952,078

## System Use (in MW)

Existing System Peak Demand.....	5,627
<b>Future additional IPC Network Use</b>	<b>2,000</b>
New System Demand—Including new uses.....	7,627

## Point-To-Point Transmission Rate

a) Existing Rate—\$/kW-yr.....	\$ 15.83
b) New Rate without 3rd-Party Use—\$/kW-yr.....	\$ 28.45

## Point-To-Point Revenue Adjustments (incremental change to Existing Revenue Credits)

Change in existing uses (increase > 100%).....	100%
Existing uses adjusted at new rate b).....	\$ (13,960,338)

## Network Transmission Revenue Requirements

<b>a) Existing</b>	
BPA Load Ratio Share.....	\$ 4,237,114
Long-Term PTP Revenue.....	\$ 7,375,757
Legacy Contract Revenue.....	\$ 6,742,822
Assigned to IPC Retail Load Service.....	\$ 70,700,764
<b>b) Future - New Projects without additional participation</b>	
BPA Load Ratio Share.....	\$ 7,010,667
Long-Term PTP Revenue.....	\$ 13,256,220
Legacy Contract Revenue.....	\$ 6,742,822
Assigned to IPC Retail Load Service.....	\$ 189,942,369
<b>Net change</b>	<b>\$ 119,241,605</b>

## 2009 Integrated Resource Plan

## Idaho Power Transmission Rate Approximation for 2009 IRP Analysis

## Portfolio 2-5

Project	Capital Cost
Gateway 19% owned by IPCo (300/1600)	\$ 337,500,000
300 Wind	Included in GW
1050 Existing Coal	

---

**Annual Revenue Requirements**


---

Existing Revenue Requirements.....	\$	106,566,650
Existing Revenue Credits.....	\$	(17,510,193)
Existing Net Revenue Requirements.....	\$	89,056,456
<b>New Project Capital</b>	<b>\$</b>	<b>337,500,000</b>
New Revenue Requirements for Project(s).....	\$	54,023,495
New Net Revenue Requirements.....	\$	143,079,951

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**System Use (in MW)**


---

Existing System Peak Demand.....	5,627
<b>Future additional IPC Network Use</b>	<b>300</b>
New System Demand—Including new uses.....	5,927

---

**Point-To-Point Transmission Rate**


---

a) Existing Rate—\$/kW-yr.....	\$	15.83
b) New Rate without 3rd-Party Use—\$/kW-yr.....	\$	24.14

---

**Point-To-Point Revenue Adjustments (incremental change to Existing Revenue Credits)**


---

Change in existing uses (increase > 100%).....	100%
Existing uses adjusted at new rate b).....	\$ (9,198,010)

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**Network Transmission Revenue Requirements**


---

<b>a) Existing</b>		
BPA Load Ratio Share.....	\$	4,237,114
Long-Term PTP Revenue.....	\$	7,375,757
Legacy Contract Revenue.....	\$	6,742,822
Assigned to IPC Retail Load Service.....	\$	70,700,764
<b>b) Future - New Projects without additional participation</b>		
BPA Load Ratio Share.....	\$	6,028,365
Long-Term PTP Revenue.....	\$	11,250,202
Legacy Contract Revenue.....	\$	6,742,822
Assigned to IPC Retail Load Service.....	\$	119,058,562
<b>Net change</b>	<b>\$</b>	<b>48,357,798</b>

## Loss of Load Expectation Summary Data—Preferred Portfolio (1-4 &amp; 2-4)\*

Year	Annual												
	Preferred	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2010	0.66	0.00	0.00	0.00	0.00	0.01	0.10	0.43	0.06	0.06	0.00	0.00	0.01
2011	2.17	0.01	0.00	0.00	0.00	0.05	0.14	1.79	0.08	0.08	0.00	0.00	0.01
2012	1.57	0.01	0.00	0.00	0.00	0.02	0.85	0.48	0.11	0.06	0.00	0.00	0.01
2013	1.93	0.00	0.00	0.00	0.00	0.00	0.14	1.53	0.19	0.06	0.00	0.00	0.02
2014	1.91	0.00	0.00	0.00	0.00	0.01	0.26	1.36	0.21	0.06	0.00	0.00	0.02
2015	1.13	0.00	0.00	0.00	0.00	0.01	0.11	0.81	0.11	0.07	0.00	0.00	0.01
2016	1.48	0.00	0.00	0.00	0.00	0.03	0.10	1.15	0.13	0.05	0.00	0.00	0.01
2017	0.57	0.00	0.00	0.00	0.00	0.03	0.05	0.32	0.10	0.06	0.00	0.00	0.01
2018	0.69	0.00	0.00	0.00	0.00	0.02	0.03	0.47	0.09	0.05	0.00	0.00	0.01
2019	0.97	0.00	0.00	0.00	0.00	0.01	0.02	0.77	0.12	0.02	0.00	0.01	0.02
2020	0.71	0.00	0.00	0.00	0.00	0.02	0.02	0.64	0.02	0.01	0.00	0.00	0.00
2021	0.73	0.00	0.00	0.00	0.00	0.00	0.02	0.67	0.02	0.01	0.00	0.00	0.00
2022	1.05	0.00	0.00	0.00	0.00	0.00	0.03	0.97	0.02	0.01	0.00	0.00	0.00
2023	1.58	0.00	0.00	0.00	0.00	0.00	0.09	1.36	0.03	0.10	0.00	0.00	0.00
2024	0.83	0.00	0.00	0.00	0.00	0.00	0.01	0.79	0.00	0.03	0.00	0.00	0.00
2025	0.23	0.00	0.00	0.00	0.00	0.00	0.01	0.21	0.00	0.01	0.00	0.00	0.00
2026	0.14	0.00	0.00	0.00	0.00	0.00	0.07	0.05	0.00	0.02	0.00	0.00	0.00
2027	0.32	0.00	0.00	0.00	0.00	0.00	0.14	0.05	0.00	0.14	0.00	0.00	0.00
2028	3.22	0.00	0.00	0.00	0.00	0.00	0.24	2.89	0.09	0.01	0.00	0.00	0.00
2029	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00

\*With CBM @ 330 MW and 83 MW & 158 MW east-side purchases in 2013/2014 and 83 MW in 2028

## Loss of Load Expectation Summary Data—Alternate Portfolio 1-2\*

Year	Annual												
	Preferred	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	1.91	0.00	0.00	0.00	0.00	0.01	0.26	1.36	0.21	0.06	0.00	0.00	0.02
2015	1.17	0.00	0.00	0.00	0.00	0.00	0.08	0.95	0.07	0.07	0.00	0.00	0.00
2016	1.68	0.00	0.00	0.00	0.00	0.01	0.12	1.34	0.14	0.08	0.00	0.00	0.00
2017	0.65	0.00	0.00	0.00	0.00	0.00	0.04	0.54	0.05	0.02	0.00	0.00	0.00
2018	0.99	0.00	0.00	0.00	0.00	0.00	0.07	0.81	0.07	0.03	0.00	0.00	0.00
2019	1.59	0.00	0.00	0.00	0.00	0.00	0.11	1.32	0.10	0.06	0.00	0.00	0.00

\* With CBM @ 330 MW and 83 MW & 158 MW east-side purchases in 2013/2014

With CBM @ 330 MW and 83 east-side purchases in 2015 and beyond

## Loss of Load Expectation Summary Data—Alternate Portfolio 2-5\*

Year	Annual												
	Preferred	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	0.97	0.00	0.00	0.00	0.00	0.01	0.02	0.77	0.12	0.02	0.00	0.01	0.02
2020	0.85	0.00	0.00	0.00	0.00	0.03	0.05	0.68	0.05	0.03	0.00	0.00	0.01
2021	0.93	0.00	0.00	0.00	0.00	0.04	0.06	0.71	0.07	0.05	0.00	0.00	0.01
2022	0.53	0.00	0.00	0.00	0.00	0.01	0.03	0.42	0.04	0.02	0.00	0.00	0.00
2023	0.75	0.00	0.00	0.00	0.00	0.02	0.08	0.57	0.05	0.03	0.00	0.00	0.00
2024	1.68	0.00	0.00	0.00	0.00	0.02	0.06	1.51	0.06	0.03	0.00	0.00	0.00
2025	1.31	0.00	0.00	0.00	0.00	0.02	0.08	1.09	0.07	0.05	0.00	0.00	0.00
2026	0.70	0.00	0.00	0.00	0.00	0.01	0.04	0.59	0.03	0.03	0.00	0.00	0.00
2027	0.34	0.00	0.00	0.00	0.00	0.00	0.04	0.28	0.01	0.01	0.00	0.00	0.00
2028	0.95	0.00	0.00	0.00	0.00	0.00	0.03	0.89	0.02	0.01	0.00	0.00	0.00
2029	0.48	0.00	0.00	0.00	0.00	0.00	0.03	0.41	0.01	0.02	0.00	0.00	0.00

\*With CBM @ 330 MW and 83 MW purchases in 2020–2029

## SALES AND LOAD FORECAST DATA

### Average Annual Growth Rates (%)

	2010–2015	2010–2020	2010–2029
<b>Sales</b>			
Residential Sales.....	1.4	1.2	0.6
Commercial Sales.....	1.5	1.1	0.7
Irrigation Sales.....	-0.2	0.0	-0.5
Industrial Sales.....	3.5	1.8	1.0
Additional Firm Sales.....	3.4	1.5	2.3
Firm Sales.....	1.8	1.2	0.7
System Sales.....	1.8	1.2	0.7
Total Sales.....	1.8	1.2	0.7
<b>Loads</b>			
Residential Load.....	1.4	1.2	0.6
Commercial Load.....	1.5	1.1	0.7
Irrigation Load.....	-0.2	-0.1	-0.5
Industrial Load.....	3.3	1.7	1.0
Additional Firm Sales.....	3.4	1.5	2.3
Firm Load Losses.....	1.5	1.0	0.5
Firm Load.....	1.7	1.1	0.7
System Load.....	1.7	1.1	0.7
Total Load.....	1.7	1.1	0.7
Firm Requirement Load.....	1.7	1.1	0.6
<b>Peaks</b>			
Firm Peak.....	2.1	1.8	1.5
System Peak.....	2.1	1.8	1.5
Total Peak.....	2.1	1.8	1.5
Firm Requirement Peak.....	2.1	1.8	1.5
Winter Peak.....	0.3	0.3	0.0
Summer Peak.....	2.1	1.8	1.5
<b>Customers</b>			
Residential Customers.....	1.6	1.7	1.7
Commercial Customers.....	2.1	2.2	2.1
Irrigation Customers.....	1.5	1.4	1.4
Industrial Customers.....	1.3	1.2	1.1

## Sales and Load Forecast

## Average Load (Average Megawatts)—50th Percentile

	Jan. 2010	Feb. 2010	Mar. 2010	Apr. 2010	May. 2010	Jun. 2010	Jul. 2010	Aug. 2010	Sep. 2010	Oct. 2010	Nov. 2010	Dec. 2010
Residential.....	777	688	567	489	440	494	627	607	486	484	620	810
Commercial.....	458	436	402	388	390	436	503	486	427	407	432	487
Irrigation.....	1	1	6	74	258	523	599	483	315	47	3	3
Industrial.....	248	251	244	239	245	260	255	256	249	255	251	275
Additional Firm.....	152	160	155	150	158	144	147	156	172	182	189	193
Loss.....	159	148	131	128	144	184	214	198	160	129	142	170
Firm Load	1,796	1,684	1,505	1,469	1,635	2,039	2,345	2,186	1,808	1,505	1,636	1,938
Light Load.....	1,654	1,555	1,385	1,336	1,469	1,833	2,121	1,939	1,645	1,362	1,503	1,802
Heavy Load.....	1,918	1,780	1,592	1,565	1,778	2,190	2,521	2,380	1,938	1,617	1,743	2,045
System Load	1,796	1,684	1,505	1,469	1,635	2,039	2,345	2,186	1,808	1,505	1,636	1,938
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Load	1,796	1,684	1,505	1,469	1,635	2,039	2,345	2,186	1,808	1,505	1,636	1,938

## Peak Load (Megawatts)—90th Percentile

	Jan. 2010	Feb. 2010	Mar. 2010	Apr. 2010	May. 2010	Jun. 2010	Jul. 2010	Aug. 2010	Sep. 2010	Oct. 2010	Nov. 2010	Dec. 2010
Energy Efficiency (MW).....	-13	-13	-13	-14	-15	-16	-17	-16	-14	-13	-13	-13
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
Firm Peak Load	2,416	2,356	2,045	1,860	2,692	3,284	3,439	3,131	2,965	2,052	2,253	2,593
System Peak (1 Hour)	2,416	2,356	2,045	1,860	2,692	3,284	3,439	3,131	2,965	2,052	2,253	2,593
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Peak Load	2,416	2,356	2,045	1,860	2,692	3,284	3,439	3,131	2,965	2,052	2,253	2,593

## Sales and Load Forecast

## Average Load (Average Megawatts)—50th Percentile

	Jan. 2011	Feb. 2011	Mar. 2011	Apr. 2011	May. 2011	Jun. 2011	Jul. 2011	Aug. 2011	Sep. 2011	Oct. 2011	Nov. 2011	Dec. 2011
Residential.....	788	696	573	494	446	504	643	623	496	492	630	826
Commercial.....	464	442	408	393	395	444	513	495	435	413	439	497
Irrigation.....	1	1	6	74	259	526	603	486	317	47	3	3
Industrial.....	269	276	268	266	272	289	285	287	282	288	287	296
Additional Firm.....	206	205	197	191	186	160	153	161	177	182	190	193
Loss.....	165	153	136	133	148	189	219	203	164	133	146	174
<b>Firm Load</b>	<b>1,892</b>	<b>1,773</b>	<b>1,588</b>	<b>1,551</b>	<b>1,706</b>	<b>2,112</b>	<b>2,416</b>	<b>2,255</b>	<b>1,871</b>	<b>1,556</b>	<b>1,695</b>	<b>1,989</b>
Light Load.....	1,743	1,637	1,460	1,411	1,533	1,899	2,186	2,000	1,703	1,409	1,557	1,850
Heavy Load.....	2,021	1,875	1,679	1,653	1,855	2,268	2,615	2,438	2,006	1,673	1,805	2,099
<b>System Load</b>	<b>1,892</b>	<b>1,773</b>	<b>1,588</b>	<b>1,551</b>	<b>1,706</b>	<b>2,112</b>	<b>2,416</b>	<b>2,255</b>	<b>1,871</b>	<b>1,556</b>	<b>1,695</b>	<b>1,989</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>1,892</b>	<b>1,773</b>	<b>1,588</b>	<b>1,551</b>	<b>1,706</b>	<b>2,112</b>	<b>2,416</b>	<b>2,255</b>	<b>1,871</b>	<b>1,556</b>	<b>1,695</b>	<b>1,989</b>

## Peak Load (Megawatts)—90th Percentile

	Jan. 2011	Feb. 2011	Mar. 2011	Apr. 2011	May. 2011	Jun. 2011	Jul. 2011	Aug. 2011	Sep. 2011	Oct. 2011	Nov. 2011	Dec. 2011
Energy Efficiency (MW).....	-25	-25	-25	-26	-30	-33	-33	-32	-28	-26	-25	-25
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,520</b>	<b>2,440</b>	<b>2,133</b>	<b>1,937</b>	<b>2,777</b>	<b>3,361</b>	<b>3,538</b>	<b>3,177</b>	<b>3,013</b>	<b>2,096</b>	<b>2,304</b>	<b>2,627</b>
<b>System Peak (1 Hour)</b>	<b>2,520</b>	<b>2,440</b>	<b>2,133</b>	<b>1,937</b>	<b>2,777</b>	<b>3,361</b>	<b>3,538</b>	<b>3,177</b>	<b>3,013</b>	<b>2,096</b>	<b>2,304</b>	<b>2,627</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,520</b>	<b>2,440</b>	<b>2,133</b>	<b>1,937</b>	<b>2,777</b>	<b>3,361</b>	<b>3,538</b>	<b>3,177</b>	<b>3,013</b>	<b>2,096</b>	<b>2,304</b>	<b>2,627</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—50th Percentile

	Jan. 2012	Feb. 2012	Mar. 2012	Apr. 2012	May. 2012	Jun. 2012	Jul. 2012	Aug. 2012	Sep. 2012	Oct. 2012	Nov. 2012	Dec. 2012
Residential.....	804	709	583	503	455	518	664	644	510	504	643	832
Commercial.....	474	451	416	401	404	456	527	508	445	422	448	506
Irrigation.....	1	1	6	74	256	521	598	483	315	47	3	3
Industrial.....	289	287	285	282	286	303	298	298	292	297	294	299
Additional Firm.....	205	202	197	191	186	160	153	160	177	188	197	201
Loss.....	169	156	139	135	151	192	223	207	167	136	149	177
<b>Firm Load</b>	<b>1,941</b>	<b>1,805</b>	<b>1,626</b>	<b>1,586</b>	<b>1,738</b>	<b>2,151</b>	<b>2,464</b>	<b>2,299</b>	<b>1,906</b>	<b>1,594</b>	<b>1,735</b>	<b>2,018</b>
Light Load.....	1,787	1,667	1,496	1,443	1,561	1,933	2,229	2,040	1,735	1,443	1,593	1,876
Heavy Load.....	2,073	1,907	1,720	1,700	1,877	2,310	2,666	2,486	2,056	1,703	1,848	2,139
<b>System Load</b>	<b>1,941</b>	<b>1,805</b>	<b>1,626</b>	<b>1,586</b>	<b>1,738</b>	<b>2,151</b>	<b>2,464</b>	<b>2,299</b>	<b>1,906</b>	<b>1,594</b>	<b>1,735</b>	<b>2,018</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>1,941</b>	<b>1,805</b>	<b>1,626</b>	<b>1,586</b>	<b>1,738</b>	<b>2,151</b>	<b>2,464</b>	<b>2,299</b>	<b>1,906</b>	<b>1,594</b>	<b>1,735</b>	<b>2,018</b>

## Peak Load (Megawatts)—90th Percentile

	Jan. 2012	Feb. 2012	Mar. 2012	Apr. 2012	May. 2012	Jun. 2012	Jul. 2012	Aug. 2012	Sep. 2012	Oct. 2012	Nov. 2012	Dec. 2012
Energy Efficiency (MW).....	-37	-36	-37	-39	-45	-48	-48	-47	-42	-38	-37	-37
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,561</b>	<b>2,441</b>	<b>2,168</b>	<b>1,953</b>	<b>2,821</b>	<b>3,462</b>	<b>3,614</b>	<b>3,235</b>	<b>3,055</b>	<b>2,131</b>	<b>2,342</b>	<b>2,648</b>
<b>System Peak (1 Hour)</b>	<b>2,561</b>	<b>2,441</b>	<b>2,168</b>	<b>1,953</b>	<b>2,821</b>	<b>3,462</b>	<b>3,614</b>	<b>3,235</b>	<b>3,055</b>	<b>2,131</b>	<b>2,342</b>	<b>2,648</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,561</b>	<b>2,441</b>	<b>2,168</b>	<b>1,953</b>	<b>2,821</b>	<b>3,462</b>	<b>3,614</b>	<b>3,235</b>	<b>3,055</b>	<b>2,131</b>	<b>2,342</b>	<b>2,648</b>

**Sales and Load Forecast**

**Average Load (Average Megawatts)—50th Percentile**

	Jan. 2013	Feb. 2013	Mar. 2013	Apr. 2013	May. 2013	Jun. 2013	Jul. 2013	Aug. 2013	Sep. 2013	Oct. 2013	Nov. 2013	Dec. 2013
Residential.....	800	704	580	499	454	520	670	649	512	503	642	841
Commercial.....	480	457	422	407	411	465	538	518	453	429	455	514
Irrigation.....	1	1	6	73	254	518	595	479	313	47	3	3
Industrial.....	290	300	288	284	289	306	300	300	294	300	297	300
Additional Firm.....	205	205	198	191	186	179	189	185	184	189	197	201
Loss.....	169	157	139	136	151	194	226	209	169	137	150	178
<b>Firm Load</b>	<b>1,947</b>	<b>1,823</b>	<b>1,632</b>	<b>1,591</b>	<b>1,745</b>	<b>2,181</b>	<b>2,519</b>	<b>2,342</b>	<b>1,926</b>	<b>1,604</b>	<b>1,745</b>	<b>2,037</b>
Light Load.....	1,793	1,684	1,501	1,447	1,567	1,960	2,279	2,078	1,753	1,452	1,603	1,894
Heavy Load.....	2,068	1,928	1,735	1,696	1,884	2,357	2,708	2,532	2,078	1,714	1,859	2,160
<b>System Load</b>	<b>1,947</b>	<b>1,823</b>	<b>1,632</b>	<b>1,591</b>	<b>1,745</b>	<b>2,181</b>	<b>2,519</b>	<b>2,342</b>	<b>1,926</b>	<b>1,604</b>	<b>1,745</b>	<b>2,037</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>1,947</b>	<b>1,823</b>	<b>1,632</b>	<b>1,591</b>	<b>1,745</b>	<b>2,181</b>	<b>2,519</b>	<b>2,342</b>	<b>1,926</b>	<b>1,604</b>	<b>1,745</b>	<b>2,037</b>

**Peak Load (Megawatts)—90th Percentile**

	Jan. 2013	Feb. 2013	Mar. 2013	Apr. 2013	May. 2013	Jun. 2013	Jul. 2013	Aug. 2013	Sep. 2013	Oct. 2013	Nov. 2013	Dec. 2013
Energy Efficiency (MW).....	-49	-49	-49	-52	-58	-63	-64	-62	-56	-50	-49	-50
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,521</b>	<b>2,450</b>	<b>2,145</b>	<b>1,911</b>	<b>2,845</b>	<b>3,506</b>	<b>3,703</b>	<b>3,288</b>	<b>3,112</b>	<b>2,140</b>	<b>2,341</b>	<b>2,594</b>
<b>System Peak (1 Hour)</b>	<b>2,521</b>	<b>2,450</b>	<b>2,145</b>	<b>1,911</b>	<b>2,845</b>	<b>3,506</b>	<b>3,703</b>	<b>3,288</b>	<b>3,112</b>	<b>2,140</b>	<b>2,341</b>	<b>2,594</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,521</b>	<b>2,450</b>	<b>2,145</b>	<b>1,911</b>	<b>2,845</b>	<b>3,506</b>	<b>3,703</b>	<b>3,288</b>	<b>3,112</b>	<b>2,140</b>	<b>2,341</b>	<b>2,594</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—50th Percentile

	Jan. 2014	Feb. 2014	Mar. 2014	Apr. 2014	May. 2014	Jun. 2014	Jul. 2014	Aug. 2014	Sep. 2014	Oct. 2014	Nov. 2014	Dec. 2014
Residential.....	815	715	588	507	462	533	690	669	525	513	654	851
Commercial.....	485	461	426	412	416	472	547	526	480	435	460	519
Irrigation.....	1	1	6	72	253	516	593	478	312	46	3	3
Industrial.....	291	301	289	285	290	307	302	302	296	301	298	301
Additional Firm.....	206	205	198	192	187	179	189	186	185	190	198	202
Loss.....	172	159	141	137	152	196	229	212	171	138	152	180
Firm Load	1,970	1,842	1,648	1,604	1,759	2,203	2,551	2,372	1,948	1,623	1,766	2,055
Light Load.....	1,814	1,701	1,516	1,460	1,580	1,980	2,308	2,105	1,773	1,469	1,622	1,911
Heavy Load.....	2,092	1,947	1,752	1,710	1,900	2,381	2,743	2,583	2,089	1,734	1,892	2,169
System Load	1,970	1,842	1,648	1,604	1,759	2,203	2,551	2,372	1,948	1,623	1,766	2,055
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Load	1,970	1,842	1,648	1,604	1,759	2,203	2,551	2,372	1,948	1,623	1,766	2,055

## Peak Load (Megawatts)—90th Percentile

	Jan. 2014	Feb. 2014	Mar. 2014	Apr. 2014	May. 2014	Jun. 2014	Jul. 2014	Aug. 2014	Sep. 2014	Oct. 2014	Nov. 2014	Dec. 2014
Energy Efficiency (MW).....	-61	-61	-61	-64	-72	-78	-79	-76	-68	-62	-62	-61
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
Firm Peak Load	2,555	2,470	2,172	1,933	2,875	3,557	3,766	3,351	3,154	2,157	2,367	2,637
System Peak (1 Hour)	2,555	2,470	2,172	1,933	2,875	3,557	3,766	3,351	3,154	2,157	2,367	2,637
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Peak Load	2,555	2,470	2,172	1,933	2,875	3,557	3,766	3,351	3,154	2,157	2,367	2,637

**Sales and Load Forecast**

**Average Load (Average Megawatts)—50th Percentile**

	Jan. 2015	Feb. 2015	Mar. 2015	Apr. 2015	May. 2015	Jun. 2015	Jul. 2015	Aug. 2015	Sep. 2015	Oct. 2015	Nov. 2015	Dec. 2015
Residential.....	818	717	589	507	464	539	702	681	532	517	658	857
Commercial.....	488	463	429	414	419	477	554	532	465	438	464	523
Irrigation.....	1	1	6	73	253	518	595	480	314	47	3	3
Industrial.....	292	302	289	286	290	308	302	302	296	302	299	301
Additional Firm.....	206	205	198	192	187	179	189	186	185	190	198	202
Loss.....	172	159	141	137	153	197	232	214	172	139	152	181
<b>Firm Load</b>	<b>1,977</b>	<b>1,846</b>	<b>1,652</b>	<b>1,608</b>	<b>1,765</b>	<b>2,218</b>	<b>2,574</b>	<b>2,394</b>	<b>1,963</b>	<b>1,632</b>	<b>1,774</b>	<b>2,067</b>
Light Load.....	1,820	1,705	1,520	1,463	1,586	1,994	2,328	2,124	1,786	1,477	1,630	1,922
Heavy Load.....	2,100	1,952	1,756	1,714	1,919	2,382	2,768	2,607	2,104	1,743	1,901	2,181
<b>System Load</b>	<b>1,977</b>	<b>1,846</b>	<b>1,652</b>	<b>1,608</b>	<b>1,765</b>	<b>2,218</b>	<b>2,574</b>	<b>2,394</b>	<b>1,963</b>	<b>1,632</b>	<b>1,774</b>	<b>2,067</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>1,977</b>	<b>1,846</b>	<b>1,652</b>	<b>1,608</b>	<b>1,765</b>	<b>2,218</b>	<b>2,574</b>	<b>2,394</b>	<b>1,963</b>	<b>1,632</b>	<b>1,774</b>	<b>2,067</b>

**Peak Load (Megawatts)—90th Percentile**

	Jan. 2015	Feb. 2015	Mar. 2015	Apr. 2015	May. 2015	Jun. 2015	Jul. 2015	Aug. 2015	Sep. 2015	Oct. 2015	Nov. 2015	Dec. 2015
Energy Efficiency (MW).....	-73	-73	-73	-76	-86	-92	-93	-90	-81	-74	-74	-73
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,544</b>	<b>2,463</b>	<b>2,168</b>	<b>1,920</b>	<b>2,898</b>	<b>3,604</b>	<b>3,819</b>	<b>3,388</b>	<b>3,196</b>	<b>2,164</b>	<b>2,372</b>	<b>2,629</b>
<b>System Peak (1 Hour)</b>	<b>2,544</b>	<b>2,463</b>	<b>2,168</b>	<b>1,920</b>	<b>2,898</b>	<b>3,604</b>	<b>3,819</b>	<b>3,388</b>	<b>3,196</b>	<b>2,164</b>	<b>2,372</b>	<b>2,629</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,544</b>	<b>2,463</b>	<b>2,168</b>	<b>1,920</b>	<b>2,898</b>	<b>3,604</b>	<b>3,819</b>	<b>3,388</b>	<b>3,196</b>	<b>2,164</b>	<b>2,372</b>	<b>2,629</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—50th Percentile

	Jan. 2016	Feb. 2016	Mar. 2016	Apr. 2016	May. 2016	Jun. 2016	Jul. 2016	Aug. 2016	Sep. 2016	Oct. 2016	Nov. 2016	Dec. 2016
Residential.....	823	720	592	509	467	547	715	694	539	522	664	865
Commercial.....	490	466	431	416	421	482	561	537	468	440	467	527
Irrigation.....	1	1	6	72	253	517	595	479	314	46	3	3
Industrial.....	293	292	290	286	291	309	303	303	297	302	300	302
Additional Firm.....	204	201	197	191	186	178	189	185	184	189	197	201
Loss.....	173	159	141	137	153	198	234	216	173	140	153	182
<b>Firm Load</b>	<b>1,985</b>	<b>1,839</b>	<b>1,657</b>	<b>1,612</b>	<b>1,770</b>	<b>2,231</b>	<b>2,595</b>	<b>2,414</b>	<b>1,975</b>	<b>1,640</b>	<b>1,784</b>	<b>2,079</b>
Light Load.....	1,828	1,699	1,524	1,466	1,590	2,006	2,348	2,141	1,797	1,484	1,639	1,933
Heavy Load.....	2,120	1,943	1,752	1,718	1,925	2,396	2,808	2,610	2,117	1,762	1,900	2,194
<b>System Load</b>	<b>1,985</b>	<b>1,839</b>	<b>1,657</b>	<b>1,612</b>	<b>1,770</b>	<b>2,231</b>	<b>2,595</b>	<b>2,414</b>	<b>1,975</b>	<b>1,640</b>	<b>1,784</b>	<b>2,079</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>1,985</b>	<b>1,839</b>	<b>1,657</b>	<b>1,612</b>	<b>1,770</b>	<b>2,231</b>	<b>2,595</b>	<b>2,414</b>	<b>1,975</b>	<b>1,640</b>	<b>1,784</b>	<b>2,079</b>

## Peak Load (Megawatts)—90th Percentile

	Jan. 2016	Feb. 2016	Mar. 2016	Apr. 2016	May. 2016	Jun. 2016	Jul. 2016	Aug. 2016	Sep. 2016	Oct. 2016	Nov. 2016	Dec. 2016
Energy Efficiency (MW).....	-85	-82	-85	-88	-99	-106	-107	-104	-94	-87	-85	-84
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,541</b>	<b>2,461</b>	<b>2,170</b>	<b>1,913</b>	<b>2,921</b>	<b>3,649</b>	<b>3,871</b>	<b>3,428</b>	<b>3,237</b>	<b>2,170</b>	<b>2,381</b>	<b>2,631</b>
<b>System Peak (1 Hour)</b>	<b>2,541</b>	<b>2,461</b>	<b>2,170</b>	<b>1,913</b>	<b>2,921</b>	<b>3,649</b>	<b>3,871</b>	<b>3,428</b>	<b>3,237</b>	<b>2,170</b>	<b>2,381</b>	<b>2,631</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,541</b>	<b>2,461</b>	<b>2,170</b>	<b>1,913</b>	<b>2,921</b>	<b>3,649</b>	<b>3,871</b>	<b>3,428</b>	<b>3,237</b>	<b>2,170</b>	<b>2,381</b>	<b>2,631</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—50th Percentile

	Jan. 2017	Feb. 2017	Mar. 2017	Apr. 2017	May. 2017	Jun. 2017	Jul. 2017	Aug. 2017	Sep. 2017	Oct. 2017	Nov. 2017	Dec. 2017
Residential.....	829	723	594	511	471	555	729	707	548	527	670	872
Commercial.....	493	466	433	417	424	487	567	542	472	443	470	529
Irrigation.....	1	1	6	72	252	518	595	480	314	47	3	3
Industrial.....	293	303	291	287	291	310	303	304	298	303	300	303
Additional Firm.....	204	203	197	191	186	178	188	185	184	188	196	200
Loss.....	173	160	142	138	154	199	236	218	174	140	154	183
<b>Firm Load</b>	<b>1,994</b>	<b>1,857</b>	<b>1,662</b>	<b>1,616</b>	<b>1,778</b>	<b>2,247</b>	<b>2,619</b>	<b>2,435</b>	<b>1,989</b>	<b>1,649</b>	<b>1,794</b>	<b>2,090</b>
Light Load.....	1,836	1,715	1,529	1,470	1,597	2,019	2,369	2,161	1,810	1,492	1,648	1,944
Heavy Load.....	2,129	1,963	1,758	1,732	1,920	2,413	2,834	2,634	2,133	1,772	1,911	2,217
<b>System Load</b>	<b>1,994</b>	<b>1,857</b>	<b>1,662</b>	<b>1,616</b>	<b>1,778</b>	<b>2,247</b>	<b>2,619</b>	<b>2,435</b>	<b>1,989</b>	<b>1,649</b>	<b>1,794</b>	<b>2,090</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>1,994</b>	<b>1,857</b>	<b>1,662</b>	<b>1,616</b>	<b>1,778</b>	<b>2,247</b>	<b>2,619</b>	<b>2,435</b>	<b>1,989</b>	<b>1,649</b>	<b>1,794</b>	<b>2,090</b>

## Peak Load (Megawatts)—90th Percentile

	Jan. 2017	Feb. 2017	Mar. 2017	Apr. 2017	May. 2017	Jun. 2017	Jul. 2017	Aug. 2017	Sep. 2017	Oct. 2017	Nov. 2017	Dec. 2017
Energy Efficiency (MW).....	-97	-96	-96	-101	-112	-120	-121	-117	-106	-99	-97	-97
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,540</b>	<b>2,458</b>	<b>2,173</b>	<b>1,909</b>	<b>2,945</b>	<b>3,695</b>	<b>3,925</b>	<b>3,471</b>	<b>3,278</b>	<b>2,178</b>	<b>2,391</b>	<b>2,636</b>
<b>System Peak (1 Hour)</b>	<b>2,540</b>	<b>2,458</b>	<b>2,173</b>	<b>1,909</b>	<b>2,945</b>	<b>3,695</b>	<b>3,925</b>	<b>3,471</b>	<b>3,278</b>	<b>2,178</b>	<b>2,391</b>	<b>2,636</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,540</b>	<b>2,458</b>	<b>2,173</b>	<b>1,909</b>	<b>2,945</b>	<b>3,695</b>	<b>3,925</b>	<b>3,471</b>	<b>3,278</b>	<b>2,178</b>	<b>2,391</b>	<b>2,636</b>

**Sales and Load Forecast**

**Average Load (Average Megawatts)—50th Percentile**

	Jan. 2018	Feb. 2018	Mar. 2018	Apr. 2018	May. 2018	Jun. 2018	Jul. 2018	Aug. 2018	Sep. 2018	Oct. 2018	Nov. 2018	Dec. 2018
Residential.....	834	726	597	513	474	562	743	721	556	532	676	880
Commercial.....	495	488	435	419	427	492	573	548	476	446	472	533
Irrigation.....	1	1	6	72	252	518	596	480	315	47	3	3
Industrial.....	294	304	291	287	292	310	304	304	298	304	301	303
Additional Firm.....	204	203	196	190	185	177	188	184	183	188	196	200
Loss.....	174	180	142	138	154	201	238	220	176	141	155	184
<b>Firm Load</b>	<b>2,002</b>	<b>1,862</b>	<b>1,667</b>	<b>1,620</b>	<b>1,784</b>	<b>2,262</b>	<b>2,643</b>	<b>2,457</b>	<b>2,003</b>	<b>1,659</b>	<b>1,804</b>	<b>2,104</b>
Light Load.....	1,844	1,720	1,534	1,474	1,603	2,033	2,391	2,180	1,823	1,501	1,657	1,956
Heavy Load.....	2,127	1,969	1,763	1,736	1,927	2,429	2,859	2,658	2,161	1,772	1,922	2,231
<b>System Load</b>	<b>2,002</b>	<b>1,862</b>	<b>1,667</b>	<b>1,620</b>	<b>1,784</b>	<b>2,262</b>	<b>2,643</b>	<b>2,457</b>	<b>2,003</b>	<b>1,659</b>	<b>1,804</b>	<b>2,104</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,002</b>	<b>1,862</b>	<b>1,667</b>	<b>1,620</b>	<b>1,784</b>	<b>2,262</b>	<b>2,643</b>	<b>2,457</b>	<b>2,003</b>	<b>1,659</b>	<b>1,804</b>	<b>2,104</b>

**Peak Load (Megawatts)—90th Percentile**

	Jan. 2018	Feb. 2018	Mar. 2018	Apr. 2018	May. 2018	Jun. 2018	Jul. 2018	Aug. 2018	Sep. 2018	Oct. 2018	Nov. 2018	Dec. 2018
Energy Efficiency (MW).....	-109	-108	-108	-113	-125	-134	-135	-131	-120	-110	-109	-109
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,537</b>	<b>2,455</b>	<b>2,176</b>	<b>1,904</b>	<b>2,969</b>	<b>3,742</b>	<b>3,978</b>	<b>3,514</b>	<b>3,319</b>	<b>2,186</b>	<b>2,400</b>	<b>2,642</b>
<b>System Peak (1 Hour)</b>	<b>2,537</b>	<b>2,455</b>	<b>2,176</b>	<b>1,904</b>	<b>2,969</b>	<b>3,742</b>	<b>3,978</b>	<b>3,514</b>	<b>3,319</b>	<b>2,186</b>	<b>2,400</b>	<b>2,642</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,537</b>	<b>2,455</b>	<b>2,176</b>	<b>1,904</b>	<b>2,969</b>	<b>3,742</b>	<b>3,978</b>	<b>3,514</b>	<b>3,319</b>	<b>2,186</b>	<b>2,400</b>	<b>2,642</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—50th Percentile

	Jan. 2019	Feb. 2019	Mar. 2019	Apr. 2019	May. 2019	Jun. 2019	Jul. 2019	Aug. 2019	Sep. 2019	Oct. 2019	Nov. 2019	Dec. 2019
Residential.....	841	731	600	516	478	571	758	736	565	538	683	890
Commercial.....	497	469	437	421	430	497	580	553	480	449	475	538
Irrigation.....	1	1	6	73	253	520	598	481	316	47	3	3
Industrial.....	295	305	292	288	293	311	305	305	299	305	302	304
Additional Firm.....	201	200	194	188	184	176	188	183	182	186	194	198
Loss.....	175	161	142	138	155	202	240	222	177	142	156	185
<b>Firm Load</b>	<b>2,009</b>	<b>1,867</b>	<b>1,670</b>	<b>1,624</b>	<b>1,791</b>	<b>2,277</b>	<b>2,667</b>	<b>2,480</b>	<b>2,017</b>	<b>1,667</b>	<b>1,813</b>	<b>2,115</b>
Light Load.....	1,851	1,724	1,537	1,477	1,809	2,047	2,413	2,200	1,835	1,509	1,885	1,967
Heavy Load.....	2,135	1,974	1,776	1,731	1,935	2,462	2,868	2,682	2,176	1,782	1,931	2,243
<b>System Load</b>	<b>2,009</b>	<b>1,867</b>	<b>1,670</b>	<b>1,624</b>	<b>1,791</b>	<b>2,277</b>	<b>2,667</b>	<b>2,480</b>	<b>2,017</b>	<b>1,667</b>	<b>1,813</b>	<b>2,115</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,009</b>	<b>1,867</b>	<b>1,670</b>	<b>1,624</b>	<b>1,791</b>	<b>2,277</b>	<b>2,667</b>	<b>2,480</b>	<b>2,017</b>	<b>1,667</b>	<b>1,813</b>	<b>2,115</b>

## Peak Load (Megawatts)—90th Percentile

	Jan. 2019	Feb. 2019	Mar. 2019	Apr. 2019	May. 2019	Jun. 2019	Jul. 2019	Aug. 2019	Sep. 2019	Oct. 2019	Nov. 2019	Dec. 2019
Energy Efficiency (MW).....	-120	-120	-121	-125	-138	-148	-149	-145	-132	-122	-120	-121
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,539</b>	<b>2,455</b>	<b>2,180</b>	<b>1,904</b>	<b>2,994</b>	<b>3,789</b>	<b>4,034</b>	<b>3,561</b>	<b>3,358</b>	<b>2,193</b>	<b>2,411</b>	<b>2,654</b>
<b>System Peak (1 Hour)</b>	<b>2,539</b>	<b>2,455</b>	<b>2,180</b>	<b>1,904</b>	<b>2,994</b>	<b>3,789</b>	<b>4,034</b>	<b>3,561</b>	<b>3,358</b>	<b>2,193</b>	<b>2,411</b>	<b>2,654</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,539</b>	<b>2,455</b>	<b>2,180</b>	<b>1,904</b>	<b>2,994</b>	<b>3,789</b>	<b>4,034</b>	<b>3,561</b>	<b>3,358</b>	<b>2,193</b>	<b>2,411</b>	<b>2,654</b>

**Sales and Load Forecast**

**Average Load (Average Megawatts)—50th Percentile**

	Jan. 2020	Feb. 2020	Mar. 2020	Apr. 2020	May. 2020	Jun. 2020	Jul. 2020	Aug. 2020	Sep. 2020	Oct. 2020	Nov. 2020	Dec. 2020
Residential.....	848	736	604	519	482	581	774	752	574	545	690	893
Commercial.....	498	472	438	423	431	502	586	558	484	451	477	539
Irrigation.....	1	1	6	73	253	521	600	483	317	47	4	3
Industrial.....	296	295	292	288	293	312	305	306	300	308	302	305
Additional Firm.....	201	198	194	188	183	175	186	182	181	186	193	197
Loss.....	176	161	143	139	155	204	243	224	178	143	157	186
<b>Firm Load</b>	<b>2,021</b>	<b>1,862</b>	<b>1,676</b>	<b>1,629</b>	<b>1,799</b>	<b>2,295</b>	<b>2,694</b>	<b>2,505</b>	<b>2,035</b>	<b>1,678</b>	<b>1,823</b>	<b>2,122</b>
Light Load.....	1,861	1,720	1,542	1,482	1,616	2,063	2,437	2,223	1,852	1,519	1,674	1,974
Heavy Load.....	2,146	1,968	1,782	1,736	1,956	2,465	2,897	2,728	2,181	1,793	1,953	2,240
<b>System Load</b>	<b>2,021</b>	<b>1,862</b>	<b>1,676</b>	<b>1,629</b>	<b>1,799</b>	<b>2,295</b>	<b>2,694</b>	<b>2,505</b>	<b>2,035</b>	<b>1,678</b>	<b>1,823</b>	<b>2,122</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,021</b>	<b>1,862</b>	<b>1,676</b>	<b>1,629</b>	<b>1,799</b>	<b>2,295</b>	<b>2,694</b>	<b>2,505</b>	<b>2,035</b>	<b>1,678</b>	<b>1,823</b>	<b>2,122</b>

**Peak Load (Megawatts)—90th Percentile**

	Jan. 2020	Feb. 2020	Mar. 2020	Apr. 2020	May. 2020	Jun. 2020	Jul. 2020	Aug. 2020	Sep. 2020	Oct. 2020	Nov. 2020	Dec. 2020
Energy Efficiency (MW).....	-132	-127	-133	-137	-152	-162	-163	-159	-144	-134	-133	-132
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,547</b>	<b>2,448</b>	<b>2,188</b>	<b>1,907</b>	<b>3,018</b>	<b>3,837</b>	<b>4,091</b>	<b>3,612</b>	<b>3,401</b>	<b>2,202</b>	<b>2,422</b>	<b>2,666</b>
<b>System Peak (1 Hour)</b>	<b>2,547</b>	<b>2,448</b>	<b>2,188</b>	<b>1,907</b>	<b>3,018</b>	<b>3,837</b>	<b>4,091</b>	<b>3,612</b>	<b>3,401</b>	<b>2,202</b>	<b>2,422</b>	<b>2,666</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,547</b>	<b>2,448</b>	<b>2,188</b>	<b>1,907</b>	<b>3,018</b>	<b>3,837</b>	<b>4,091</b>	<b>3,612</b>	<b>3,401</b>	<b>2,202</b>	<b>2,422</b>	<b>2,666</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—50th Percentile

	Jan. 2021	Feb. 2021	Mar. 2021	Apr. 2021	May. 2021	Jun. 2021	Jul. 2021	Aug. 2021	Sep. 2021	Oct. 2021	Nov. 2021	Dec. 2021
Residential.....	845	731	600	515	481	583	781	758	577	545	689	896
Commercial.....	498	470	439	423	433	506	591	562	487	453	479	541
Irrigation.....	1	1	6	72	252	520	599	482	318	47	4	3
Industrial.....	295	306	293	289	293	312	306	306	300	306	303	305
Additional Firm.....	200	200	193	188	183	175	186	182	181	186	193	197
Loss.....	175	161	142	138	155	204	244	225	179	143	157	186
<b>Firm Load</b>	<b>2,016</b>	<b>1,869</b>	<b>1,674</b>	<b>1,625</b>	<b>1,797</b>	<b>2,301</b>	<b>2,706</b>	<b>2,516</b>	<b>2,040</b>	<b>1,679</b>	<b>1,825</b>	<b>2,129</b>
Light Load.....	1,857	1,726	1,540	1,479	1,614	2,068	2,448	2,232	1,856	1,519	1,676	1,980
Heavy Load.....	2,153	1,976	1,770	1,732	1,954	2,471	2,909	2,740	2,187	1,804	1,944	2,247
<b>System Load</b>	<b>2,016</b>	<b>1,869</b>	<b>1,674</b>	<b>1,625</b>	<b>1,797</b>	<b>2,301</b>	<b>2,706</b>	<b>2,516</b>	<b>2,040</b>	<b>1,679</b>	<b>1,825</b>	<b>2,129</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,016</b>	<b>1,869</b>	<b>1,674</b>	<b>1,625</b>	<b>1,797</b>	<b>2,301</b>	<b>2,706</b>	<b>2,516</b>	<b>2,040</b>	<b>1,679</b>	<b>1,825</b>	<b>2,129</b>

## Peak Load (Megawatts)—90th Percentile

	Jan. 2021	Feb. 2021	Mar. 2021	Apr. 2021	May. 2021	Jun. 2021	Jul. 2021	Aug. 2021	Sep. 2021	Oct. 2021	Nov. 2021	Dec. 2021
Energy Efficiency (MW).....	-145	-144	-143	-149	-165	-176	-177	-172	-157	-146	-144	-144
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,508</b>	<b>2,435</b>	<b>2,171</b>	<b>1,878</b>	<b>3,034</b>	<b>3,877</b>	<b>4,133</b>	<b>3,633</b>	<b>3,442</b>	<b>2,202</b>	<b>2,418</b>	<b>2,633</b>
<b>System Peak (1 Hour)</b>	<b>2,508</b>	<b>2,435</b>	<b>2,171</b>	<b>1,878</b>	<b>3,034</b>	<b>3,877</b>	<b>4,133</b>	<b>3,633</b>	<b>3,442</b>	<b>2,202</b>	<b>2,418</b>	<b>2,633</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,508</b>	<b>2,435</b>	<b>2,171</b>	<b>1,878</b>	<b>3,034</b>	<b>3,877</b>	<b>4,133</b>	<b>3,633</b>	<b>3,442</b>	<b>2,202</b>	<b>2,418</b>	<b>2,633</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—50th Percentile

	Jan. 2022	Feb. 2022	Mar. 2022	Apr. 2022	May. 2022	Jun. 2022	Jul. 2022	Aug. 2022	Sep. 2022	Oct. 2022	Nov. 2022	Dec. 2022
Residential.....	850	734	602	517	484	591	795	772	585	550	695	902
Commercial.....	499	471	440	424	434	510	596	567	490	454	480	544
Irrigation.....	1	1	6	72	251	518	597	480	315	47	4	3
Industrial.....	296	307	294	289	294	313	307	307	301	307	304	307
Additional Firm.....	200	200	193	187	183	175	185	182	181	185	193	197
Loss.....	176	161	142	138	155	205	246	227	180	143	157	187
<b>Firm Load</b>	<b>2,022</b>	<b>1,872</b>	<b>1,677</b>	<b>1,628</b>	<b>1,801</b>	<b>2,312</b>	<b>2,726</b>	<b>2,535</b>	<b>2,051</b>	<b>1,686</b>	<b>1,833</b>	<b>2,139</b>
Light Load.....	1,863	1,729	1,543	1,481	1,618	2,078	2,466	2,249	1,867	1,526	1,684	1,989
Heavy Load.....	2,160	1,980	1,774	1,735	1,958	2,483	2,949	2,741	2,199	1,813	1,953	2,258
<b>System Load</b>	<b>2,022</b>	<b>1,872</b>	<b>1,677</b>	<b>1,628</b>	<b>1,801</b>	<b>2,312</b>	<b>2,726</b>	<b>2,535</b>	<b>2,051</b>	<b>1,686</b>	<b>1,833</b>	<b>2,139</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,022</b>	<b>1,872</b>	<b>1,677</b>	<b>1,628</b>	<b>1,801</b>	<b>2,312</b>	<b>2,726</b>	<b>2,535</b>	<b>2,051</b>	<b>1,686</b>	<b>1,833</b>	<b>2,139</b>

## Peak Load (Megawatts)—90th Percentile

	Jan. 2022	Feb. 2022	Mar. 2022	Apr. 2022	May. 2022	Jun. 2022	Jul. 2022	Aug. 2022	Sep. 2022	Oct. 2022	Nov. 2022	Dec. 2022
Energy Efficiency (MW).....	-157	-155	-155	-161	-179	-190	-191	-186	-170	-159	-156	-155
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,504</b>	<b>2,431</b>	<b>2,174</b>	<b>1,875</b>	<b>3,055</b>	<b>3,921</b>	<b>4,183</b>	<b>3,676</b>	<b>3,483</b>	<b>2,208</b>	<b>2,426</b>	<b>2,641</b>
<b>System Peak (1 Hour)</b>	<b>2,504</b>	<b>2,431</b>	<b>2,174</b>	<b>1,875</b>	<b>3,055</b>	<b>3,921</b>	<b>4,183</b>	<b>3,676</b>	<b>3,483</b>	<b>2,208</b>	<b>2,426</b>	<b>2,641</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,504</b>	<b>2,431</b>	<b>2,174</b>	<b>1,875</b>	<b>3,055</b>	<b>3,921</b>	<b>4,183</b>	<b>3,676</b>	<b>3,483</b>	<b>2,208</b>	<b>2,426</b>	<b>2,641</b>

### Sales and Load Forecast

#### Average Load (Average Megawatts)—50th Percentile

	Jan. 2023	Feb. 2023	Mar. 2023	Apr. 2023	May. 2023	Jun. 2023	Jul. 2023	Aug. 2023	Sep. 2023	Oct. 2023	Nov. 2023	Dec. 2023
Residential.....	853	735	602	517	486	598	808	785	592	554	699	899
Commercial.....	500	470	441	424	436	514	601	570	492	456	482	544
Irrigation.....	1	1	6	72	251	519	597	481	316	47	4	3
Industrial.....	297	307	294	290	295	314	307	308	302	308	305	306
Additional Firm.....	198	198	192	186	182	173	184	181	180	184	191	195
Loss.....	176	161	142	138	156	206	247	229	181	144	158	187
<b>Firm Load</b>	<b>2,026</b>	<b>1,872</b>	<b>1,678</b>	<b>1,627</b>	<b>1,805</b>	<b>2,324</b>	<b>2,746</b>	<b>2,553</b>	<b>2,062</b>	<b>1,692</b>	<b>1,837</b>	<b>2,134</b>
Light Load.....	1,866	1,729	1,543	1,480	1,621	2,089	2,484	2,265	1,876	1,531	1,688	1,984
Heavy Load.....	2,184	1,980	1,774	1,744	1,949	2,496	2,971	2,761	2,211	1,818	1,958	2,263
<b>System Load</b>	<b>2,026</b>	<b>1,872</b>	<b>1,678</b>	<b>1,627</b>	<b>1,805</b>	<b>2,324</b>	<b>2,746</b>	<b>2,553</b>	<b>2,062</b>	<b>1,692</b>	<b>1,837</b>	<b>2,134</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,026</b>	<b>1,872</b>	<b>1,678</b>	<b>1,627</b>	<b>1,805</b>	<b>2,324</b>	<b>2,746</b>	<b>2,553</b>	<b>2,062</b>	<b>1,692</b>	<b>1,837</b>	<b>2,134</b>

#### Peak Load (Megawatts)—90th Percentile

	Jan. 2023	Feb. 2023	Mar. 2023	Apr. 2023	May. 2023	Jun. 2023	Jul. 2023	Aug. 2023	Sep. 2023	Oct. 2023	Nov. 2023	Dec. 2023
Energy Efficiency (MW).....	-168	-167	-167	-174	-191	-204	-205	-200	-182	-170	-168	-169
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,496</b>	<b>2,424</b>	<b>2,172</b>	<b>1,867</b>	<b>3,077</b>	<b>3,965</b>	<b>4,234</b>	<b>3,716</b>	<b>3,523</b>	<b>2,212</b>	<b>2,431</b>	<b>2,628</b>
<b>System Peak (1 Hour)</b>	<b>2,496</b>	<b>2,424</b>	<b>2,172</b>	<b>1,867</b>	<b>3,077</b>	<b>3,965</b>	<b>4,234</b>	<b>3,716</b>	<b>3,523</b>	<b>2,212</b>	<b>2,431</b>	<b>2,628</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,496</b>	<b>2,424</b>	<b>2,172</b>	<b>1,867</b>	<b>3,077</b>	<b>3,965</b>	<b>4,234</b>	<b>3,716</b>	<b>3,523</b>	<b>2,212</b>	<b>2,431</b>	<b>2,628</b>

**Sales and Load Forecast**

**Average Load (Average Megawatts)—50th Percentile**

	Jan. 2024	Feb. 2024	Mar. 2024	Apr. 2024	May. 2024	Jun. 2024	Jul. 2024	Aug. 2024	Sep. 2024	Oct. 2024	Nov. 2024	Dec. 2024
Residential.....	843	725	594	509	480	595	808	785	590	549	692	900
Commercial.....	499	472	439	424	437	516	605	573	493	456	482	545
Irrigation.....	1	1	6	71	248	514	593	477	314	46	4	3
Industrial.....	299	297	294	290	296	314	308	308	301	309	305	307
Additional Firm.....	198	195	191	186	181	173	184	180	179	184	191	195
Loss.....	175	159	141	137	155	206	247	228	180	143	157	187
<b>Firm Load</b>	<b>2,015</b>	<b>1,849</b>	<b>1,666</b>	<b>1,617</b>	<b>1,797</b>	<b>2,319</b>	<b>2,744</b>	<b>2,552</b>	<b>2,057</b>	<b>1,687</b>	<b>1,830</b>	<b>2,136</b>
Light Load.....	1,856	1,708	1,532	1,471	1,614	2,085	2,483	2,264	1,872	1,527	1,681	1,987
Heavy Load.....	2,140	1,954	1,771	1,724	1,941	2,507	2,951	2,760	2,219	1,803	1,950	2,265
<b>System Load</b>	<b>2,015</b>	<b>1,849</b>	<b>1,666</b>	<b>1,617</b>	<b>1,797</b>	<b>2,319</b>	<b>2,744</b>	<b>2,552</b>	<b>2,057</b>	<b>1,687</b>	<b>1,830</b>	<b>2,136</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,015</b>	<b>1,849</b>	<b>1,666</b>	<b>1,617</b>	<b>1,797</b>	<b>2,319</b>	<b>2,744</b>	<b>2,552</b>	<b>2,057</b>	<b>1,687</b>	<b>1,830</b>	<b>2,136</b>

**Peak Load (Megawatts)—90th Percentile**

	Jan. 2024	Feb. 2024	Mar. 2024	Apr. 2024	May. 2024	Jun. 2024	Jul. 2024	Aug. 2024	Sep. 2024	Oct. 2024	Nov. 2024	Dec. 2024
Energy Efficiency (MW).....	-180	-173	-180	-185	-203	-218	-219	-214	-196	-181	-180	-181
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,428</b>	<b>2,408</b>	<b>2,135</b>	<b>1,819</b>	<b>3,087</b>	<b>3,998</b>	<b>4,262</b>	<b>3,718</b>	<b>3,562</b>	<b>2,207</b>	<b>2,412</b>	<b>2,565</b>
<b>System Peak (1 Hour)</b>	<b>2,428</b>	<b>2,408</b>	<b>2,135</b>	<b>1,819</b>	<b>3,087</b>	<b>3,998</b>	<b>4,262</b>	<b>3,718</b>	<b>3,562</b>	<b>2,207</b>	<b>2,412</b>	<b>2,565</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,428</b>	<b>2,408</b>	<b>2,135</b>	<b>1,819</b>	<b>3,087</b>	<b>3,998</b>	<b>4,262</b>	<b>3,718</b>	<b>3,562</b>	<b>2,207</b>	<b>2,412</b>	<b>2,565</b>

### Sales and Load Forecast

#### Average Load (Average Megawatts)—50th Percentile

	Jan. 2025	Feb. 2025	Mar. 2025	Apr. 2025	May. 2025	Jun. 2025	Jul. 2025	Aug. 2025	Sep. 2025	Oct. 2025	Nov. 2025	Dec. 2025
Residential.....	849	728	596	511	484	604	824	800	599	555	699	907
Commercial.....	499	468	440	424	438	520	610	577	496	458	482	547
Irrigation.....	1	1	6	71	246	512	589	474	312	46	4	3
Industrial.....	298	309	295	291	296	315	309	309	303	310	305	308
Additional Firm.....	198	197	191	185	181	173	184	180	179	184	191	194
Loss.....	175	160	141	137	155	207	249	230	181	144	158	188
<b>Firm Load</b>	<b>2,021</b>	<b>1,863</b>	<b>1,669</b>	<b>1,619</b>	<b>1,801</b>	<b>2,330</b>	<b>2,764</b>	<b>2,571</b>	<b>2,070</b>	<b>1,696</b>	<b>1,838</b>	<b>2,147</b>
Light Load.....	1,862	1,721	1,536	1,473	1,618	2,095	2,501	2,281	1,884	1,535	1,668	1,996
Heavy Load.....	2,147	1,970	1,774	1,726	1,945	2,519	2,972	2,800	2,219	1,812	1,969	2,265
<b>System Load</b>	<b>2,021</b>	<b>1,863</b>	<b>1,669</b>	<b>1,619</b>	<b>1,801</b>	<b>2,330</b>	<b>2,764</b>	<b>2,571</b>	<b>2,070</b>	<b>1,696</b>	<b>1,838</b>	<b>2,147</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,021</b>	<b>1,863</b>	<b>1,669</b>	<b>1,619</b>	<b>1,801</b>	<b>2,330</b>	<b>2,764</b>	<b>2,571</b>	<b>2,070</b>	<b>1,696</b>	<b>1,838</b>	<b>2,147</b>

#### Peak Load (Megawatts)—90th Percentile

	Jan. 2025	Feb. 2025	Mar. 2025	Apr. 2025	May. 2025	Jun. 2025	Jul. 2025	Aug. 2025	Sep. 2025	Oct. 2025	Nov. 2025	Dec. 2025
Energy Efficiency (MW).....	-192	-191	-192	-198	-216	-232	-233	-227	-208	-193	-193	-192
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,432</b>	<b>2,384</b>	<b>2,143</b>	<b>1,824</b>	<b>3,109</b>	<b>4,042</b>	<b>4,312</b>	<b>3,766</b>	<b>3,604</b>	<b>2,214</b>	<b>2,422</b>	<b>2,586</b>
<b>System Peak (1 Hour)</b>	<b>2,432</b>	<b>2,384</b>	<b>2,143</b>	<b>1,824</b>	<b>3,109</b>	<b>4,042</b>	<b>4,312</b>	<b>3,766</b>	<b>3,604</b>	<b>2,214</b>	<b>2,422</b>	<b>2,586</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,432</b>	<b>2,384</b>	<b>2,143</b>	<b>1,824</b>	<b>3,109</b>	<b>4,042</b>	<b>4,312</b>	<b>3,766</b>	<b>3,604</b>	<b>2,214</b>	<b>2,422</b>	<b>2,586</b>

**Sales and Load Forecast**

**Average Load (Average Megawatts)—50th Percentile**

	Jan. 2026	Feb. 2026	Mar. 2026	Apr. 2026	May. 2026	Jun. 2026	Jul. 2026	Aug. 2026	Sep. 2026	Oct. 2026	Nov. 2026	Dec. 2026
Residential.....	852	729	597	511	486	611	837	813	606	558	702	904
Commercial.....	499	468	440	424	439	524	615	581	499	459	483	548
Irrigation.....	1	1	6	71	247	513	591	476	313	46	4	3
Industrial.....	299	309	296	291	296	316	309	310	304	311	306	309
Additional Firm.....	196	196	189	184	180	171	182	179	178	182	189	192
Loss.....	176	159	141	137	155	208	251	232	182	144	158	187
<b>Firm Load</b>	<b>2,023</b>	<b>1,862</b>	<b>1,669</b>	<b>1,619</b>	<b>1,802</b>	<b>2,343</b>	<b>2,785</b>	<b>2,590</b>	<b>2,082</b>	<b>1,700</b>	<b>1,842</b>	<b>2,144</b>
Light Load.....	1,863	1,720	1,535	1,473	1,619	2,106	2,520	2,298	1,895	1,539	1,692	1,993
Heavy Load.....	2,149	1,969	1,774	1,725	1,960	2,516	2,994	2,820	2,232	1,817	1,973	2,262
<b>System Load</b>	<b>2,023</b>	<b>1,862</b>	<b>1,669</b>	<b>1,619</b>	<b>1,802</b>	<b>2,343</b>	<b>2,785</b>	<b>2,590</b>	<b>2,082</b>	<b>1,700</b>	<b>1,842</b>	<b>2,144</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,023</b>	<b>1,862</b>	<b>1,669</b>	<b>1,619</b>	<b>1,802</b>	<b>2,343</b>	<b>2,785</b>	<b>2,590</b>	<b>2,082</b>	<b>1,700</b>	<b>1,842</b>	<b>2,144</b>

**Peak Load (Megawatts)—90th Percentile**

	Jan. 2026	Feb. 2026	Mar. 2026	Apr. 2026	May. 2026	Jun. 2026	Jul. 2026	Aug. 2026	Sep. 2026	Oct. 2026	Nov. 2026	Dec. 2026
Energy Efficiency (MW).....	-203	-203	-204	-210	-231	-246	-247	-241	-219	-205	-205	-203
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,421</b>	<b>2,375</b>	<b>2,142</b>	<b>1,817</b>	<b>3,128</b>	<b>4,087</b>	<b>4,364</b>	<b>3,808</b>	<b>3,646</b>	<b>2,218</b>	<b>2,427</b>	<b>2,577</b>
<b>System Peak (1 Hour)</b>	<b>2,421</b>	<b>2,375</b>	<b>2,142</b>	<b>1,817</b>	<b>3,128</b>	<b>4,087</b>	<b>4,364</b>	<b>3,808</b>	<b>3,646</b>	<b>2,218</b>	<b>2,427</b>	<b>2,577</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,421</b>	<b>2,375</b>	<b>2,142</b>	<b>1,817</b>	<b>3,128</b>	<b>4,087</b>	<b>4,364</b>	<b>3,808</b>	<b>3,646</b>	<b>2,218</b>	<b>2,427</b>	<b>2,577</b>

### Sales and Load Forecast

#### Average Load (Average Megawatts)—50th Percentile

	Jan. 2027	Feb. 2027	Mar. 2027	Apr. 2027	May. 2027	Jun. 2027	Jul. 2027	Aug. 2027	Sep. 2027	Oct. 2027	Nov. 2027	Dec. 2027
Residential.....	843	719	589	504	481	609	838	814	604	554	697	901
Commercial.....	498	466	440	424	438	526	618	583	500	459	484	548
Irrigation.....	1	1	6	70	245	509	587	473	311	46	4	3
Industrial.....	299	310	297	292	296	317	310	310	304	311	307	309
Additional Firm.....	195	194	188	182	178	170	181	178	177	180	187	190
Loss.....	174	158	140	136	154	207	251	232	182	144	157	187
Firm Load	2,010	1,849	1,659	1,608	1,793	2,339	2,785	2,590	2,078	1,694	1,836	2,139
Light Load.....	1,851	1,708	1,526	1,463	1,611	2,102	2,520	2,297	1,891	1,533	1,686	1,989
Heavy Load.....	2,148	1,955	1,755	1,714	1,949	2,512	2,995	2,820	2,228	1,821	1,956	2,257
System Load	2,010	1,849	1,659	1,608	1,793	2,339	2,785	2,590	2,078	1,694	1,836	2,139
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Load	2,010	1,849	1,659	1,608	1,793	2,339	2,785	2,590	2,078	1,694	1,836	2,139

#### Peak Load (Megawatts)—90th Percentile

	Jan. 2027	Feb. 2027	Mar. 2027	Apr. 2027	May. 2027	Jun. 2027	Jul. 2027	Aug. 2027	Sep. 2027	Oct. 2027	Nov. 2027	Dec. 2027
Energy Efficiency (MW).....	-216	-214	-214	-222	-245	-260	-261	-255	-233	-218	-215	-215
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
Firm Peak Load	2,354	2,336	2,111	1,772	3,138	4,120	4,394	3,815	3,684	2,210	2,411	2,513
System Peak (1 Hour)	2,354	2,336	2,111	1,772	3,138	4,120	4,394	3,815	3,684	2,210	2,411	2,513
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Peak Load	2,354	2,336	2,111	1,772	3,138	4,120	4,394	3,815	3,684	2,210	2,411	2,513

## Sales and Load Forecast

## Average Load (Average Megawatts)—50th Percentile

	Jan. 2028	Feb. 2028	Mar. 2028	Apr. 2028	May. 2028	Jun. 2028	Jul. 2028	Aug. 2028	Sep. 2028	Oct. 2028	Nov. 2028	Dec. 2028
Residential.....	840	716	585	501	480	612	845	821	607	554	695	891
Commercial.....	497	469	440	423	440	529	623	586	502	459	484	548
Irrigation.....	1	1	6	69	242	504	581	468	308	45	3	3
Industrial.....	301	300	297	292	297	317	310	311	305	312	308	309
Additional Firm.....	193	190	186	181	177	169	179	176	175	179	186	189
Loss.....	174	157	140	135	154	207	251	232	182	144	157	186
Firm Load	2,005	1,833	1,654	1,600	1,789	2,338	2,790	2,594	2,079	1,693	1,834	2,126
Light Load.....	1,847	1,693	1,521	1,456	1,607	2,101	2,524	2,302	1,892	1,532	1,684	1,977
Heavy Load.....	2,142	1,937	1,749	1,716	1,932	2,511	3,019	2,806	2,229	1,820	1,954	2,254
System Load	2,005	1,833	1,654	1,600	1,789	2,338	2,790	2,594	2,079	1,693	1,834	2,126
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Load	2,005	1,833	1,654	1,600	1,789	2,338	2,790	2,594	2,079	1,693	1,834	2,126

## Peak Load (Megawatts)—90th Percentile

	Jan. 2028	Feb. 2028	Mar. 2028	Apr. 2028	May. 2028	Jun. 2028	Jul. 2028	Aug. 2028	Sep. 2028	Oct. 2028	Nov. 2028	Dec. 2028
Energy Efficiency (MW).....	-228	-218	-226	-235	-257	-274	-275	-269	-245	-230	-227	-228
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
Firm Peak Load	2,315	2,299	2,094	1,745	3,152	4,156	4,430	3,835	3,724	2,208	2,405	2,469
System Peak (1 Hour)	2,315	2,299	2,094	1,745	3,152	4,156	4,430	3,835	3,724	2,208	2,405	2,469
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Peak Load	2,315	2,299	2,094	1,745	3,152	4,156	4,430	3,835	3,724	2,208	2,405	2,469

**Sales and Load Forecast**

**Average Load (Average Megawatts)—50th Percentile**

	Jan. 2029	Feb. 2029	Mar. 2029	Apr. 2029	May. 2029	Jun. 2029	Jul. 2029	Aug. 2029	Sep. 2029	Oct. 2029	Nov. 2029	Dec. 2029
Residential.....	824	700	572	489	471	605	840	816	600	545	684	883
Commercial.....	496	463	438	421	439	532	626	588	502	460	484	548
Irrigation.....	1	1	6	68	237	496	572	460	303	45	3	3
Industrial.....	300	311	297	292	298	317	310	311	304	312	308	310
Additional Firm.....	191	190	185	180	175	167	178	175	174	177	184	187
Loss.....	172	155	138	133	152	206	250	231	180	142	156	164
<b>Firm Load</b>	<b>1,984</b>	<b>1,820</b>	<b>1,636</b>	<b>1,584</b>	<b>1,772</b>	<b>2,322</b>	<b>2,775</b>	<b>2,580</b>	<b>2,064</b>	<b>1,682</b>	<b>1,819</b>	<b>2,116</b>
Light Load.....	1,827	1,681	1,505	1,441	1,592	2,087	2,510	2,289	1,879	1,522	1,671	1,968
Heavy Load.....	2,108	1,925	1,731	1,698	1,914	2,493	3,003	2,791	2,227	1,797	1,938	2,244
<b>System Load</b>	<b>1,984</b>	<b>1,820</b>	<b>1,636</b>	<b>1,584</b>	<b>1,772</b>	<b>2,322</b>	<b>2,775</b>	<b>2,580</b>	<b>2,064</b>	<b>1,682</b>	<b>1,819</b>	<b>2,116</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>1,984</b>	<b>1,820</b>	<b>1,636</b>	<b>1,584</b>	<b>1,772</b>	<b>2,322</b>	<b>2,775</b>	<b>2,580</b>	<b>2,064</b>	<b>1,682</b>	<b>1,819</b>	<b>2,116</b>

**Peak Load (Megawatts)—90th Percentile**

	Jan. 2029	Feb. 2029	Mar. 2029	Apr. 2029	May. 2029	Jun. 2029	Jul. 2029	Aug. 2029	Sep. 2029	Oct. 2029	Nov. 2029	Dec. 2029
Energy Efficiency (MW).....	-239	-238	-237	-247	-270	-288	-289	-282	-260	-241	-238	-240
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,209</b>	<b>2,250</b>	<b>2,042</b>	<b>1,676</b>	<b>3,155</b>	<b>4,181</b>	<b>4,445</b>	<b>3,818</b>	<b>3,761</b>	<b>2,197</b>	<b>2,376</b>	<b>2,367</b>
<b>System Peak (1 Hour)</b>	<b>2,209</b>	<b>2,250</b>	<b>2,042</b>	<b>1,676</b>	<b>3,155</b>	<b>4,181</b>	<b>4,445</b>	<b>3,818</b>	<b>3,761</b>	<b>2,197</b>	<b>2,376</b>	<b>2,367</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,209</b>	<b>2,250</b>	<b>2,042</b>	<b>1,676</b>	<b>3,155</b>	<b>4,181</b>	<b>4,445</b>	<b>3,818</b>	<b>3,761</b>	<b>2,197</b>	<b>2,376</b>	<b>2,367</b>

Sales Load Forecast Annual Summary

Billed Sales (Megawatthours)—50th Percentile

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Residential.....	5,168,469	5,256,321	5,379,801	5,376,155	5,489,259	5,530,778	5,587,128	5,645,662	5,701,444	5,769,695
Commercial.....	3,829,818	3,890,483	3,980,186	4,047,917	4,100,296	4,133,788	4,163,623	4,192,537	4,221,347	4,249,770
Irrigation.....	1,698,888	1,708,444	1,695,280	1,683,869	1,677,836	1,683,905	1,682,268	1,683,643	1,685,914	1,689,696
Industrial.....	2,196,153	2,441,884	2,567,526	2,589,054	2,599,655	2,604,497	2,611,034	2,616,668	2,622,321	2,628,531
Additional Firm.....	1,428,995	1,604,959	1,621,276	1,687,195	1,689,907	1,689,231	1,683,727	1,678,357	1,676,318	1,657,486
Firm Sales	14,322,324	14,902,092	15,244,069	15,384,190	15,556,953	15,642,199	15,727,771	15,816,867	15,907,344	15,995,079
System Sales	14,322,324	14,902,092	15,244,069	15,384,190	15,556,953	15,642,199	15,727,771	15,816,867	15,907,344	15,995,079
Firm Off-System Sales	0	0	0	0	0	0	0	0	0	0
Total Sales	14,322,324	14,902,092	15,244,069	15,384,190	15,556,953	15,642,199	15,727,771	15,816,867	15,907,344	15,995,079

Generation Month Sales (Megawatthours)—50th Percentile

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Residential.....	5,174,855	5,264,992	5,396,714	5,394,048	5,492,013	5,534,546	5,608,557	5,649,355	5,705,977	5,774,417
Commercial.....	3,835,231	3,897,657	3,997,338	4,053,044	4,104,395	4,137,679	4,179,510	4,196,349	4,225,126	4,253,450
Irrigation.....	1,698,904	1,708,441	1,695,300	1,683,870	1,677,845	1,683,908	1,682,286	1,683,649	1,685,921	1,689,605
Industrial.....	2,211,419	2,457,547	2,569,645	2,589,952	2,600,158	2,605,016	2,611,732	2,616,883	2,622,847	2,628,952
Additional Firm.....	1,428,995	1,604,959	1,621,276	1,687,195	1,689,907	1,689,231	1,683,727	1,678,357	1,676,318	1,657,486
Firm Sales	14,349,404	14,933,595	15,280,274	15,398,109	15,564,319	15,650,380	15,765,812	15,824,593	15,916,190	16,003,910
System Sales	14,349,404	14,933,595	15,280,274	15,398,109	15,564,319	15,650,380	15,765,812	15,824,593	15,916,190	16,003,910
Firm Off-System Sales	0	0	0	0	0	0	0	0	0	0
Total Sales	14,349,404	14,933,595	15,280,274	15,398,109	15,564,319	15,650,380	15,765,812	15,824,593	15,916,190	16,003,910
Loss.....	1,392,659	1,434,513	1,465,382	1,472,316	1,488,589	1,496,524	1,507,986	1,513,222	1,521,803	1,531,196
Required Generation	15,742,063	16,368,108	16,745,655	16,870,425	17,052,907	17,146,904	17,273,798	17,337,815	17,437,993	17,535,105

Average Load (Average Megawatts)—50th Percentile

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Residential.....	591	601	614	615	627	632	638	645	651	659
Commercial.....	438	445	455	463	469	472	476	479	482	486
Irrigation.....	194	195	193	192	192	192	192	192	192	193
Industrial.....	252	281	293	296	297	297	297	299	299	300
Additional Firm.....	163	183	185	193	193	193	192	192	191	189
Loss.....	159	164	167	168	170	171	172	173	174	175
Firm Load	1,797	1,869	1,906	1,926	1,947	1,957	1,967	1,979	1,991	2,002
Light Load.....	1,635	1,700	1,735	1,752	1,771	1,781	1,789	1,801	1,811	1,821
Heavy Load.....	1,924	2,001	2,042	2,062	2,085	2,096	2,106	2,120	2,132	2,143
System Load	1,797	1,869	1,906	1,926	1,947	1,957	1,967	1,979	1,991	2,002
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0
Total Load	1,797	1,869	1,906	1,926	1,947	1,957	1,967	1,979	1,991	2,002

Peak Load (Megawatts)—90th Percentile

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Energy Efficiency (Mw).....	-17	-33	-48	-64	-79	-93	-107	-121	-135	-149
Demand Response (Mw).....	0	0	0	0	0	0	0	0	0	0
Firm Peak Load	3,439	3,538	3,614	3,703	3,766	3,819	3,871	3,925	3,978	4,034
System Peak (1 Hour)	3,439	3,538	3,614	3,703	3,766	3,819	3,871	3,925	3,978	4,034
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0
Total Peak Load	3,439	3,538	3,614	3,703	3,766	3,819	3,871	3,925	3,978	4,034

Sales Load Forecast Annual Summary

Billed Sales (Megawatthours)—50th Percentile

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Residential.....	5,841,011	5,841,418	5,895,447	5,939,934	5,890,569	5,955,384	5,997,074	5,957,390	5,958,204	5,866,848
Commercial.....	4,276,547	4,293,464	4,313,307	4,329,757	4,334,101	4,350,602	4,365,073	4,370,462	4,379,409	4,379,364
Irrigation.....	1,695,341	1,691,409	1,685,309	1,686,379	1,673,258	1,663,734	1,668,126	1,656,601	1,638,789	1,612,185
Industrial.....	2,634,391	2,637,943	2,644,929	2,652,534	2,655,893	2,661,586	2,668,570	2,671,916	2,678,560	2,679,036
Additional Firm.....	1,657,426	1,651,857	1,650,315	1,636,705	1,638,060	1,632,964	1,619,435	1,605,524	1,595,267	1,578,775
<b>Firm Sales</b>	<b>16,104,716</b>	<b>16,116,090</b>	<b>16,189,308</b>	<b>16,245,309</b>	<b>16,191,861</b>	<b>16,264,271</b>	<b>16,318,279</b>	<b>16,261,893</b>	<b>16,250,219</b>	<b>16,116,208</b>
<b>System Sales</b>	<b>16,104,716</b>	<b>16,116,090</b>	<b>16,189,308</b>	<b>16,245,309</b>	<b>16,191,861</b>	<b>16,264,271</b>	<b>16,318,279</b>	<b>16,261,893</b>	<b>16,250,219</b>	<b>16,116,208</b>
Firm Off-System Sales	0	0	0	0	0	0	0	0	0	0
<b>Total Sales</b>	<b>16,104,716</b>	<b>16,116,090</b>	<b>16,189,308</b>	<b>16,245,309</b>	<b>16,191,861</b>	<b>16,264,271</b>	<b>16,318,279</b>	<b>16,261,893</b>	<b>16,250,219</b>	<b>16,116,208</b>

Generation Month Sales (Megawatthours)—50th Percentile

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Residential.....	5,858,867	5,844,921	5,898,281	5,936,364	5,912,615	5,957,991	5,994,165	5,957,221	5,969,571	5,866,154
Commercial.....	4,292,409	4,296,753	4,316,405	4,332,205	4,360,397	4,353,566	4,367,548	4,373,116	4,395,241	4,381,980
Irrigation.....	1,695,365	1,691,408	1,685,314	1,686,373	1,673,278	1,663,742	1,668,121	1,656,591	1,638,795	1,612,166
Industrial.....	2,634,963	2,638,631	2,645,784	2,652,250	2,656,430	2,662,466	2,668,890	2,672,483	2,678,356	2,679,387
Additional Firm.....	1,657,426	1,651,857	1,650,315	1,636,705	1,638,050	1,632,964	1,619,435	1,605,524	1,595,267	1,578,775
<b>Firm Sales</b>	<b>16,139,031</b>	<b>16,123,569</b>	<b>16,196,100</b>	<b>16,243,907</b>	<b>16,230,769</b>	<b>16,270,729</b>	<b>16,318,149</b>	<b>16,264,935</b>	<b>16,277,230</b>	<b>16,118,462</b>
<b>System Sales</b>	<b>16,139,031</b>	<b>16,123,569</b>	<b>16,196,100</b>	<b>16,243,907</b>	<b>16,230,769</b>	<b>16,270,729</b>	<b>16,318,149</b>	<b>16,264,935</b>	<b>16,277,230</b>	<b>16,118,462</b>
Firm Off-System Sales	0	0	0	0	0	0	0	0	0	0
<b>Total Sales</b>	<b>16,139,031</b>	<b>16,123,569</b>	<b>16,196,100</b>	<b>16,243,907</b>	<b>16,230,769</b>	<b>16,270,729</b>	<b>16,318,149</b>	<b>16,264,935</b>	<b>16,277,230</b>	<b>16,118,462</b>
Loss.....	1,544,406	1,541,615	1,548,045	1,552,630	1,549,724	1,552,855	1,557,457	1,551,223	1,551,830	1,534,338
<b>Required Generation</b>	<b>17,683,437</b>	<b>17,665,184</b>	<b>17,744,145</b>	<b>17,796,537</b>	<b>17,780,493</b>	<b>17,823,583</b>	<b>17,875,606</b>	<b>17,816,158</b>	<b>17,829,060</b>	<b>17,652,801</b>

Average Load (Average Megawatts)—50th Percentile

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Residential.....	667	667	673	678	673	680	684	680	680	670
Commercial.....	489	490	493	495	495	497	499	499	500	500
Irrigation.....	193	193	192	193	190	190	190	189	187	184
Industrial.....	300	301	302	303	302	304	305	305	305	306
Additional Firm.....	189	189	188	187	186	186	185	183	182	180
Loss.....	176	176	177	177	176	177	178	177	177	175
<b>Firm Load</b>	<b>2,013</b>	<b>2,017</b>	<b>2,026</b>	<b>2,032</b>	<b>2,024</b>	<b>2,035</b>	<b>2,041</b>	<b>2,034</b>	<b>2,030</b>	<b>2,015</b>
Light Load.....	1,831	1,834	1,843	1,848	1,841	1,851	1,856	1,850	1,846	1,833
Heavy Load.....	2,156	2,160	2,169	2,176	2,167	2,179	2,185	2,178	2,174	2,158
<b>System Load</b>	<b>2,013</b>	<b>2,017</b>	<b>2,026</b>	<b>2,032</b>	<b>2,024</b>	<b>2,035</b>	<b>2,041</b>	<b>2,034</b>	<b>2,030</b>	<b>2,015</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,013</b>	<b>2,017</b>	<b>2,026</b>	<b>2,032</b>	<b>2,024</b>	<b>2,035</b>	<b>2,041</b>	<b>2,034</b>	<b>2,030</b>	<b>2,015</b>

Peak Load (Megawatts)—90th Percentile

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Energy Efficiency (Mw).....	-163	-177	-191	-205	-219	-233	-247	-261	-275	-289
Demand Response (Mw).....	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>4,091</b>	<b>4,133</b>	<b>4,183</b>	<b>4,234</b>	<b>4,262</b>	<b>4,312</b>	<b>4,364</b>	<b>4,394</b>	<b>4,430</b>	<b>4,445</b>
<b>System Peak (1 Hour)</b>	<b>4,091</b>	<b>4,133</b>	<b>4,183</b>	<b>4,234</b>	<b>4,262</b>	<b>4,312</b>	<b>4,364</b>	<b>4,394</b>	<b>4,430</b>	<b>4,445</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0
Loss.....	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>4,091</b>	<b>4,133</b>	<b>4,183</b>	<b>4,234</b>	<b>4,262</b>	<b>4,312</b>	<b>4,364</b>	<b>4,394</b>	<b>4,430</b>	<b>4,445</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—70th Percentile

	Jan. 2010	Feb. 2010	Mar. 2010	Apr. 2010	May. 2010	Jun. 2010	Jul. 2010	Aug. 2010	Sep. 2010	Oct. 2010	Nov. 2010	Dec. 2010
Residential.....	810	720	586	497	449	512	652	623	495	496	635	835
Commercial.....	468	447	407	395	397	441	509	490	429	409	436	493
Irrigation.....	1	1	7	99	309	577	626	500	332	52	4	3
Industrial.....	248	251	244	239	245	260	255	256	249	255	251	275
Additional Firm.....	152	160	155	150	158	144	147	156	172	182	189	193
Loss.....	164	153	134	132	151	192	220	202	163	131	144	174
<b>Firm Load</b>	<b>1,844</b>	<b>1,730</b>	<b>1,533</b>	<b>1,512</b>	<b>1,709</b>	<b>2,126</b>	<b>2,409</b>	<b>2,226</b>	<b>1,838</b>	<b>1,525</b>	<b>1,658</b>	<b>1,972</b>
Light Load.....	1,698	1,598	1,410	1,376	1,535	1,911	2,180	1,975	1,673	1,380	1,523	1,834
Heavy Load.....	1,969	1,829	1,622	1,612	1,858	2,283	2,590	2,424	1,971	1,639	1,766	2,081
<b>System Load</b>	<b>1,844</b>	<b>1,730</b>	<b>1,533</b>	<b>1,512</b>	<b>1,709</b>	<b>2,126</b>	<b>2,409</b>	<b>2,226</b>	<b>1,838</b>	<b>1,525</b>	<b>1,658</b>	<b>1,972</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>1,844</b>	<b>1,730</b>	<b>1,533</b>	<b>1,512</b>	<b>1,709</b>	<b>2,126</b>	<b>2,409</b>	<b>2,226</b>	<b>1,838</b>	<b>1,525</b>	<b>1,658</b>	<b>1,972</b>

## Peak Load (Megawatts)—95th Percentile

	Jan. 2010	Feb. 2010	Mar. 2010	Apr. 2010	May. 2010	Jun. 2010	Jul. 2010	Aug. 2010	Sep. 2010	Oct. 2010	Nov. 2010	Dec. 2010
Energy Efficiency (MW).....	-13	-13	-13	-14	-15	-16	-17	-16	-14	-13	-13	-13
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,455</b>	<b>2,402</b>	<b>2,103</b>	<b>1,871</b>	<b>2,761</b>	<b>3,318</b>	<b>3,460</b>	<b>3,138</b>	<b>2,978</b>	<b>2,088</b>	<b>2,302</b>	<b>2,695</b>
<b>System Peak (1 Hour)</b>	<b>2,455</b>	<b>2,402</b>	<b>2,103</b>	<b>1,871</b>	<b>2,761</b>	<b>3,318</b>	<b>3,460</b>	<b>3,138</b>	<b>2,978</b>	<b>2,088</b>	<b>2,302</b>	<b>2,695</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,455</b>	<b>2,402</b>	<b>2,103</b>	<b>1,871</b>	<b>2,761</b>	<b>3,318</b>	<b>3,460</b>	<b>3,138</b>	<b>2,978</b>	<b>2,088</b>	<b>2,302</b>	<b>2,695</b>

Sales and Load Forecast

Average Load (Average Megawatts)—70th Percentile

	Jan. 2011	Feb. 2011	Mar. 2011	Apr. 2011	May. 2011	Jun. 2011	Jul. 2011	Aug. 2011	Sep. 2011	Oct. 2011	Nov. 2011	Dec. 2011
Residential.....	821	728	592	503	456	523	669	640	506	503	645	850
Commercial.....	475	452	413	400	403	450	519	499	436	415	442	503
Irrigation.....	1	1	7	99	309	580	630	503	334	52	4	3
Industrial.....	289	276	288	266	272	289	285	287	282	288	287	296
Additional Firm.....	206	205	197	191	186	160	153	161	177	182	190	193
Loss.....	170	158	139	137	155	197	226	207	167	135	148	178
Firm Load	1,941	1,820	1,616	1,595	1,781	2,200	2,482	2,296	1,902	1,577	1,716	2,024
Light Load.....	1,787	1,681	1,486	1,451	1,600	1,977	2,245	2,037	1,731	1,427	1,576	1,882
Heavy Load.....	2,073	1,924	1,709	1,700	1,937	2,362	2,685	2,483	2,039	1,695	1,828	2,136
System Load	1,941	1,820	1,616	1,595	1,781	2,200	2,482	2,296	1,902	1,577	1,716	2,024
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Load	1,941	1,820	1,616	1,595	1,781	2,200	2,482	2,296	1,902	1,577	1,716	2,024

Peak Load (Megawatts)—95th Percentile

	Jan. 2011	Feb. 2011	Mar. 2011	Apr. 2011	May. 2011	Jun. 2011	Jul. 2011	Aug. 2011	Sep. 2011	Oct. 2011	Nov. 2011	Dec. 2011
Energy Efficiency (MW).....	-25	-25	-25	-26	-30	-33	-33	-32	-28	-26	-25	-25
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
Firm Peak Load	2,559	2,486	2,191	1,948	2,846	3,395	3,560	3,185	3,027	2,133	2,353	2,733
System Peak (1 Hour)	2,559	2,486	2,191	1,948	2,846	3,395	3,560	3,185	3,027	2,133	2,353	2,733
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Peak Load	2,559	2,486	2,191	1,948	2,846	3,395	3,560	3,185	3,027	2,133	2,353	2,733

## Sales and Load Forecast

## Average Load (Average Megawatts)—70th Percentile

	Jan. 2012	Feb. 2012	Mar. 2012	Apr. 2012	May. 2012	Jun. 2012	Jul. 2012	Aug. 2012	Sep. 2012	Oct. 2012	Nov. 2012	Dec. 2012
Residential.....	837	741	602	511	465	538	691	661	520	515	658	857
Commercial.....	485	462	421	408	412	461	533	512	447	424	452	513
Irrigation.....	1	1	7	98	307	576	625	499	332	52	4	3
Industrial.....	289	287	285	282	286	303	298	298	292	297	294	299
Additional Firm.....	205	202	197	191	186	160	153	160	177	188	197	201
Loss.....	174	161	142	140	158	201	230	211	170	138	151	180
<b>Firm Load</b>	<b>1,990</b>	<b>1,853</b>	<b>1,655</b>	<b>1,630</b>	<b>1,814</b>	<b>2,239</b>	<b>2,531</b>	<b>2,341</b>	<b>1,937</b>	<b>1,615</b>	<b>1,756</b>	<b>2,053</b>
Light Load.....	1,832	1,711	1,522	1,483	1,629	2,013	2,289	2,077	1,763	1,461	1,613	1,909
Heavy Load.....	2,125	1,958	1,750	1,747	1,959	2,405	2,738	2,532	2,090	1,725	1,871	2,176
<b>System Load</b>	<b>1,990</b>	<b>1,853</b>	<b>1,655</b>	<b>1,630</b>	<b>1,814</b>	<b>2,239</b>	<b>2,531</b>	<b>2,341</b>	<b>1,937</b>	<b>1,615</b>	<b>1,756</b>	<b>2,053</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>1,990</b>	<b>1,853</b>	<b>1,655</b>	<b>1,630</b>	<b>1,814</b>	<b>2,239</b>	<b>2,531</b>	<b>2,341</b>	<b>1,937</b>	<b>1,615</b>	<b>1,756</b>	<b>2,053</b>

## Peak Load (Megawatts)—95th Percentile

	Jan. 2012	Feb. 2012	Mar. 2012	Apr. 2012	May. 2012	Jun. 2012	Jul. 2012	Aug. 2012	Sep. 2012	Oct. 2012	Nov. 2012	Dec. 2012
Energy Efficiency (MW).....	-37	-36	-37	-39	-45	-48	-48	-47	-42	-36	-37	-37
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,600</b>	<b>2,487</b>	<b>2,225</b>	<b>1,964</b>	<b>2,891</b>	<b>3,496</b>	<b>3,636</b>	<b>3,242</b>	<b>3,069</b>	<b>2,168</b>	<b>2,391</b>	<b>2,756</b>
<b>System Peak (1 Hour)</b>	<b>2,600</b>	<b>2,487</b>	<b>2,225</b>	<b>1,964</b>	<b>2,891</b>	<b>3,496</b>	<b>3,636</b>	<b>3,242</b>	<b>3,069</b>	<b>2,168</b>	<b>2,391</b>	<b>2,756</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,600</b>	<b>2,487</b>	<b>2,225</b>	<b>1,964</b>	<b>2,891</b>	<b>3,496</b>	<b>3,636</b>	<b>3,242</b>	<b>3,069</b>	<b>2,168</b>	<b>2,391</b>	<b>2,756</b>

**Sales and Load Forecast**

**Average Load (Average Megawatts)—70th Percentile**

	Jan. 2013	Feb. 2013	Mar. 2013	Apr. 2013	May. 2013	Jun. 2013	Jul. 2013	Aug. 2013	Sep. 2013	Oct. 2013	Nov. 2013	Dec. 2013
Residential.....	834	737	599	508	484	540	698	667	522	514	658	866
Commercial.....	492	468	428	414	419	471	545	522	455	431	459	520
Irrigation.....	1	1	7	98	305	572	622	496	330	52	4	3
Industrial.....	290	300	288	284	289	306	300	300	294	300	297	300
Additional Firm.....	205	205	198	191	186	179	189	185	184	189	197	201
Loss.....	174	162	142	140	158	202	233	213	172	139	152	182
<b>Firm Load</b>	<b>1,997</b>	<b>1,872</b>	<b>1,661</b>	<b>1,635</b>	<b>1,821</b>	<b>2,270</b>	<b>2,587</b>	<b>2,385</b>	<b>1,957</b>	<b>1,625</b>	<b>1,767</b>	<b>2,073</b>
Light Load.....	1,839	1,729	1,528	1,488	1,636	2,041	2,340	2,116	1,781	1,471	1,623	1,927
Heavy Load.....	2,121	1,979	1,766	1,743	1,967	2,454	2,781	2,579	2,111	1,736	1,883	2,198
<b>System Load</b>	<b>1,997</b>	<b>1,872</b>	<b>1,661</b>	<b>1,635</b>	<b>1,821</b>	<b>2,270</b>	<b>2,587</b>	<b>2,385</b>	<b>1,957</b>	<b>1,625</b>	<b>1,767</b>	<b>2,073</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>1,997</b>	<b>1,872</b>	<b>1,661</b>	<b>1,635</b>	<b>1,821</b>	<b>2,270</b>	<b>2,587</b>	<b>2,385</b>	<b>1,957</b>	<b>1,625</b>	<b>1,767</b>	<b>2,073</b>

**Peak Load (Megawatts)—95th Percentile**

	Jan. 2013	Feb. 2013	Mar. 2013	Apr. 2013	May. 2013	Jun. 2013	Jul. 2013	Aug. 2013	Sep. 2013	Oct. 2013	Nov. 2013	Dec. 2013
Energy Efficiency (MW).....	-49	-49	-49	-52	-58	-63	-64	-62	-56	-50	-49	-50
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,560</b>	<b>2,496</b>	<b>2,203</b>	<b>1,922</b>	<b>2,915</b>	<b>3,541</b>	<b>3,726</b>	<b>3,296</b>	<b>3,127</b>	<b>2,177</b>	<b>2,389</b>	<b>2,703</b>
<b>System Peak (1 Hour)</b>	<b>2,560</b>	<b>2,496</b>	<b>2,203</b>	<b>1,922</b>	<b>2,915</b>	<b>3,541</b>	<b>3,726</b>	<b>3,296</b>	<b>3,127</b>	<b>2,177</b>	<b>2,389</b>	<b>2,703</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,560</b>	<b>2,496</b>	<b>2,203</b>	<b>1,922</b>	<b>2,915</b>	<b>3,541</b>	<b>3,726</b>	<b>3,296</b>	<b>3,127</b>	<b>2,177</b>	<b>2,389</b>	<b>2,703</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—70th Percentile

	Jan. 2014	Feb. 2014	Mar. 2014	Apr. 2014	May. 2014	Jun. 2014	Jul. 2014	Aug. 2014	Sep. 2014	Oct. 2014	Nov. 2014	Dec. 2014
Residential.....	848	748	608	515	472	554	719	687	535	525	670	876
Commercial.....	497	472	432	418	424	478	554	530	461	437	464	526
Irrigation.....	1	1	7	97	303	570	620	495	329	52	4	3
Industrial.....	291	301	289	285	290	307	302	302	296	301	298	301
Additional Firm.....	206	205	198	192	187	179	189	186	185	190	198	202
Loss.....	176	163	143	141	160	204	236	216	174	140	154	183
<b>Firm Load</b>	<b>2,020</b>	<b>1,891</b>	<b>1,677</b>	<b>1,649</b>	<b>1,836</b>	<b>2,294</b>	<b>2,620</b>	<b>2,416</b>	<b>1,980</b>	<b>1,644</b>	<b>1,788</b>	<b>2,091</b>
Light Load.....	1,860	1,746	1,543	1,501	1,649	2,061	2,370	2,144	1,802	1,488	1,642	1,944
Heavy Load.....	2,146	1,999	1,783	1,758	1,983	2,479	2,817	2,631	2,123	1,757	1,916	2,206
<b>System Load</b>	<b>2,020</b>	<b>1,891</b>	<b>1,677</b>	<b>1,649</b>	<b>1,836</b>	<b>2,294</b>	<b>2,620</b>	<b>2,416</b>	<b>1,980</b>	<b>1,644</b>	<b>1,788</b>	<b>2,091</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,020</b>	<b>1,891</b>	<b>1,677</b>	<b>1,649</b>	<b>1,836</b>	<b>2,294</b>	<b>2,620</b>	<b>2,416</b>	<b>1,980</b>	<b>1,644</b>	<b>1,788</b>	<b>2,091</b>

## Peak Load (Megawatts)—95th Percentile

	Jan. 2014	Feb. 2014	Mar. 2014	Apr. 2014	May. 2014	Jun. 2014	Jul. 2014	Aug. 2014	Sep. 2014	Oct. 2014	Nov. 2014	Dec. 2014
Energy Efficiency (MW).....	-61	-61	-61	-64	-72	-78	-79	-76	-68	-62	-62	-61
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,594</b>	<b>2,516</b>	<b>2,230</b>	<b>1,944</b>	<b>2,946</b>	<b>3,593</b>	<b>3,789</b>	<b>3,359</b>	<b>3,169</b>	<b>2,193</b>	<b>2,415</b>	<b>2,748</b>
<b>System Peak (1 Hour)</b>	<b>2,594</b>	<b>2,516</b>	<b>2,230</b>	<b>1,944</b>	<b>2,946</b>	<b>3,593</b>	<b>3,789</b>	<b>3,359</b>	<b>3,169</b>	<b>2,193</b>	<b>2,415</b>	<b>2,748</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,594</b>	<b>2,516</b>	<b>2,230</b>	<b>1,944</b>	<b>2,946</b>	<b>3,593</b>	<b>3,789</b>	<b>3,359</b>	<b>3,169</b>	<b>2,193</b>	<b>2,415</b>	<b>2,748</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—70th Percentile

	Jan. 2015	Feb. 2015	Mar. 2015	Apr. 2015	May. 2015	Jun. 2015	Jul. 2015	Aug. 2015	Sep. 2015	Oct. 2015	Nov. 2015	Dec. 2015
Residential.....	852	760	609	516	475	561	732	699	542	528	674	883
Commercial.....	500	475	435	421	427	484	561	536	466	440	468	530
Irrigation.....	1	1	7	97	304	572	622	496	330	52	4	3
Industrial.....	292	302	289	286	290	308	302	302	296	302	299	301
Additional Firm.....	206	205	198	192	187	179	189	186	185	190	198	202
Loss.....	177	164	144	141	160	206	238	218	175	141	155	184
<b>Firm Load</b>	<b>2,028</b>	<b>1,896</b>	<b>1,682</b>	<b>1,653</b>	<b>1,842</b>	<b>2,310</b>	<b>2,645</b>	<b>2,438</b>	<b>1,994</b>	<b>1,652</b>	<b>1,797</b>	<b>2,103</b>
Light Load.....	1,867	1,751	1,547	1,504	1,655	2,076	2,393	2,163	1,815	1,496	1,650	1,955
Heavy Load.....	2,154	2,004	1,788	1,762	2,003	2,480	2,843	2,655	2,138	1,766	1,925	2,219
<b>System Load</b>	<b>2,028</b>	<b>1,896</b>	<b>1,682</b>	<b>1,653</b>	<b>1,842</b>	<b>2,310</b>	<b>2,645</b>	<b>2,438</b>	<b>1,994</b>	<b>1,652</b>	<b>1,797</b>	<b>2,103</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,028</b>	<b>1,896</b>	<b>1,682</b>	<b>1,653</b>	<b>1,842</b>	<b>2,310</b>	<b>2,645</b>	<b>2,438</b>	<b>1,994</b>	<b>1,652</b>	<b>1,797</b>	<b>2,103</b>

## Peak Load (Megawatts)—95th Percentile

	Jan. 2015	Feb. 2015	Mar. 2015	Apr. 2015	May. 2015	Jun. 2015	Jul. 2015	Aug. 2015	Sep. 2015	Oct. 2015	Nov. 2015	Dec. 2015
Energy Efficiency (MW).....	-73	-73	-73	-76	-86	-92	-93	-90	-81	-74	-74	-73
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,583</b>	<b>2,509</b>	<b>2,226</b>	<b>1,931</b>	<b>2,970</b>	<b>3,640</b>	<b>3,843</b>	<b>3,396</b>	<b>3,211</b>	<b>2,200</b>	<b>2,421</b>	<b>2,742</b>
<b>System Peak (1 Hour)</b>	<b>2,583</b>	<b>2,509</b>	<b>2,226</b>	<b>1,931</b>	<b>2,970</b>	<b>3,640</b>	<b>3,843</b>	<b>3,396</b>	<b>3,211</b>	<b>2,200</b>	<b>2,421</b>	<b>2,742</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,583</b>	<b>2,509</b>	<b>2,226</b>	<b>1,931</b>	<b>2,970</b>	<b>3,640</b>	<b>3,843</b>	<b>3,396</b>	<b>3,211</b>	<b>2,200</b>	<b>2,421</b>	<b>2,742</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—70th Percentile

	Jan. 2016	Feb. 2016	Mar. 2016	Apr. 2016	May. 2016	Jun. 2016	Jul. 2016	Aug. 2016	Sep. 2016	Oct. 2016	Nov. 2016	Dec. 2016
Residential.....	858	754	611	518	478	570	746	713	550	534	680	890
Commercial.....	502	478	437	423	430	489	568	542	470	443	471	534
Irrigation.....	1	1	7	97	303	572	622	496	330	52	4	3
Industrial.....	293	292	290	286	291	309	303	303	297	302	300	302
Additional Firm.....	204	201	197	191	186	178	189	185	184	189	197	201
Loss.....	178	164	144	142	161	207	241	220	176	142	156	186
<b>Firm Load</b>	<b>2,037</b>	<b>1,889</b>	<b>1,687</b>	<b>1,657</b>	<b>1,848</b>	<b>2,324</b>	<b>2,667</b>	<b>2,459</b>	<b>2,007</b>	<b>1,661</b>	<b>1,807</b>	<b>2,115</b>
Light Load.....	1,876	1,745	1,552	1,508	1,660	2,089	2,413	2,181	1,826	1,503	1,659	1,967
Heavy Load.....	2,175	1,996	1,784	1,767	2,010	2,496	2,886	2,659	2,152	1,785	1,925	2,232
<b>System Load</b>	<b>2,037</b>	<b>1,889</b>	<b>1,687</b>	<b>1,657</b>	<b>1,848</b>	<b>2,324</b>	<b>2,667</b>	<b>2,459</b>	<b>2,007</b>	<b>1,661</b>	<b>1,807</b>	<b>2,115</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,037</b>	<b>1,889</b>	<b>1,687</b>	<b>1,657</b>	<b>1,848</b>	<b>2,324</b>	<b>2,667</b>	<b>2,459</b>	<b>2,007</b>	<b>1,661</b>	<b>1,807</b>	<b>2,115</b>

## Peak Load (Megawatts)—95th Percentile

	Jan. 2016	Feb. 2016	Mar. 2016	Apr. 2016	May. 2016	Jun. 2016	Jul. 2016	Aug. 2016	Sep. 2016	Oct. 2016	Nov. 2016	Dec. 2016
Energy Efficiency (MW).....	-85	-82	-85	-88	-99	-106	-107	-104	-94	-87	-85	-84
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,580</b>	<b>2,507</b>	<b>2,228</b>	<b>1,924</b>	<b>2,993</b>	<b>3,686</b>	<b>3,895</b>	<b>3,437</b>	<b>3,252</b>	<b>2,207</b>	<b>2,430</b>	<b>2,745</b>
<b>System Peak (1 Hour)</b>	<b>2,580</b>	<b>2,507</b>	<b>2,228</b>	<b>1,924</b>	<b>2,993</b>	<b>3,686</b>	<b>3,895</b>	<b>3,437</b>	<b>3,252</b>	<b>2,207</b>	<b>2,430</b>	<b>2,745</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,580</b>	<b>2,507</b>	<b>2,228</b>	<b>1,924</b>	<b>2,993</b>	<b>3,686</b>	<b>3,895</b>	<b>3,437</b>	<b>3,252</b>	<b>2,207</b>	<b>2,430</b>	<b>2,745</b>

**Sales and Load Forecast**

**Average Load (Average Megawatts)—70th Percentile**

	Jan. 2017	Feb. 2017	Mar. 2017	Apr. 2017	May. 2017	Jun. 2017	Jul. 2017	Aug. 2017	Sep. 2017	Oct. 2017	Nov. 2017	Dec. 2017
Residential.....	863	757	614	520	482	578	761	727	558	539	686	898
Commercial.....	505	478	439	425	433	494	574	547	474	445	474	537
Irrigation.....	1	1	7	97	303	572	622	496	331	52	4	3
Industrial.....	293	303	291	287	291	310	303	304	298	303	300	303
Additional Firm.....	204	203	197	191	186	178	188	185	184	188	196	200
Loss.....	179	165	145	142	161	209	243	222	177	142	156	187
<b>Firm Load</b>	<b>2,046</b>	<b>1,908</b>	<b>1,693</b>	<b>1,662</b>	<b>1,856</b>	<b>2,340</b>	<b>2,692</b>	<b>2,481</b>	<b>2,022</b>	<b>1,670</b>	<b>1,817</b>	<b>2,127</b>
Light Load.....	1,884	1,762	1,557	1,512	1,667	2,103	2,435	2,202	1,840	1,512	1,689	1,978
Heavy Load.....	2,185	2,017	1,790	1,781	2,005	2,513	2,913	2,684	2,167	1,795	1,936	2,256
<b>System Load</b>	<b>2,046</b>	<b>1,908</b>	<b>1,693</b>	<b>1,662</b>	<b>1,856</b>	<b>2,340</b>	<b>2,692</b>	<b>2,481</b>	<b>2,022</b>	<b>1,670</b>	<b>1,817</b>	<b>2,127</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,046</b>	<b>1,908</b>	<b>1,693</b>	<b>1,662</b>	<b>1,856</b>	<b>2,340</b>	<b>2,692</b>	<b>2,481</b>	<b>2,022</b>	<b>1,670</b>	<b>1,817</b>	<b>2,127</b>

**Peak Load (Megawatts)—95th Percentile**

	Jan. 2017	Feb. 2017	Mar. 2017	Apr. 2017	May. 2017	Jun. 2017	Jul. 2017	Aug. 2017	Sep. 2017	Oct. 2017	Nov. 2017	Dec. 2017
Energy Efficiency (MW).....	-97	-96	-96	-101	-112	-120	-121	-117	-106	-99	-97	-97
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,578</b>	<b>2,504</b>	<b>2,231</b>	<b>1,920</b>	<b>3,018</b>	<b>3,733</b>	<b>3,949</b>	<b>3,480</b>	<b>3,293</b>	<b>2,215</b>	<b>2,439</b>	<b>2,751</b>
<b>System Peak (1 Hour)</b>	<b>2,578</b>	<b>2,504</b>	<b>2,231</b>	<b>1,920</b>	<b>3,018</b>	<b>3,733</b>	<b>3,949</b>	<b>3,480</b>	<b>3,293</b>	<b>2,215</b>	<b>2,439</b>	<b>2,751</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,578</b>	<b>2,504</b>	<b>2,231</b>	<b>1,920</b>	<b>3,018</b>	<b>3,733</b>	<b>3,949</b>	<b>3,480</b>	<b>3,293</b>	<b>2,215</b>	<b>2,439</b>	<b>2,751</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—70th Percentile

	Jan. 2018	Feb. 2018	Mar. 2018	Apr. 2018	May. 2018	Jun. 2018	Jul. 2018	Aug. 2018	Sep. 2018	Oct. 2018	Nov. 2018	Dec. 2018
Residential.....	869	760	616	522	486	587	776	741	566	544	692	906
Commercial.....	507	480	441	427	435	499	581	553	477	449	477	540
Irrigation.....	1	1	7	97	303	573	623	497	331	52	4	3
Industrial.....	294	304	291	287	292	310	304	304	298	304	301	303
Additional Firm.....	204	203	196	190	185	177	188	184	183	188	196	200
Loss.....	179	165	145	142	162	210	245	224	179	143	157	188
<b>Firm Load</b>	<b>2,054</b>	<b>1,914</b>	<b>1,698</b>	<b>1,666</b>	<b>1,863</b>	<b>2,356</b>	<b>2,717</b>	<b>2,504</b>	<b>2,035</b>	<b>1,680</b>	<b>1,827</b>	<b>2,141</b>
Light Load.....	1,892	1,767	1,562	1,516	1,674	2,118	2,458	2,222	1,852	1,521	1,678	1,991
Heavy Load.....	2,183	2,023	1,796	1,786	2,013	2,530	2,940	2,708	2,196	1,795	1,946	2,270
<b>System Load</b>	<b>2,054</b>	<b>1,914</b>	<b>1,698</b>	<b>1,666</b>	<b>1,863</b>	<b>2,356</b>	<b>2,717</b>	<b>2,504</b>	<b>2,035</b>	<b>1,680</b>	<b>1,827</b>	<b>2,141</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,054</b>	<b>1,914</b>	<b>1,698</b>	<b>1,666</b>	<b>1,863</b>	<b>2,356</b>	<b>2,717</b>	<b>2,504</b>	<b>2,035</b>	<b>1,680</b>	<b>1,827</b>	<b>2,141</b>

## Peak Load (Megawatts)—95th Percentile

	Jan. 2018	Feb. 2018	Mar. 2018	Apr. 2018	May. 2018	Jun. 2018	Jul. 2018	Aug. 2018	Sep. 2018	Oct. 2018	Nov. 2018	Dec. 2018
Energy Efficiency (MW).....	-109	-108	-108	-113	-125	-134	-135	-131	-120	-110	-109	-109
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,576</b>	<b>2,501</b>	<b>2,233</b>	<b>1,915</b>	<b>3,042</b>	<b>3,780</b>	<b>4,003</b>	<b>3,523</b>	<b>3,334</b>	<b>2,223</b>	<b>2,448</b>	<b>2,759</b>
<b>System Peak (1 Hour)</b>	<b>2,576</b>	<b>2,501</b>	<b>2,233</b>	<b>1,915</b>	<b>3,042</b>	<b>3,780</b>	<b>4,003</b>	<b>3,523</b>	<b>3,334</b>	<b>2,223</b>	<b>2,448</b>	<b>2,759</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,576</b>	<b>2,501</b>	<b>2,233</b>	<b>1,915</b>	<b>3,042</b>	<b>3,780</b>	<b>4,003</b>	<b>3,523</b>	<b>3,334</b>	<b>2,223</b>	<b>2,448</b>	<b>2,759</b>

### Sales and Load Forecast

#### Average Load (Average Megawatts)—70th Percentile

	Jan. 2019	Feb. 2019	Mar. 2019	Apr. 2019	May. 2019	Jun. 2019	Jul. 2019	Aug. 2019	Sep. 2019	Oct. 2019	Nov. 2019	Dec. 2019
Residential.....	878	765	620	525	490	597	792	757	576	550	699	916
Commercial.....	510	482	443	429	439	504	587	558	481	451	479	544
Irrigation.....	1	1	7	97	303	574	625	498	332	52	4	3
Industrial.....	295	305	292	288	293	311	305	305	299	305	302	304
Additional Firm.....	201	200	194	188	184	176	186	183	182	186	194	198
Loss.....	180	166	145	143	163	212	248	227	180	144	158	189
Firm Load	2,062	1,918	1,701	1,670	1,871	2,373	2,743	2,528	2,050	1,689	1,836	2,153
Light Load.....	1,899	1,772	1,565	1,520	1,681	2,133	2,481	2,243	1,865	1,529	1,687	2,002
Heavy Load.....	2,191	2,028	1,808	1,780	2,021	2,565	2,949	2,734	2,211	1,805	1,956	2,283
System Load	2,062	1,918	1,701	1,670	1,871	2,373	2,743	2,528	2,050	1,689	1,836	2,153
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Load	2,062	1,918	1,701	1,670	1,871	2,373	2,743	2,528	2,050	1,689	1,836	2,153

#### Peak Load (Megawatts)—95th Percentile

	Jan. 2019	Feb. 2019	Mar. 2019	Apr. 2019	May. 2019	Jun. 2019	Jul. 2019	Aug. 2019	Sep. 2019	Oct. 2019	Nov. 2019	Dec. 2019
Energy Efficiency (MW).....	-120	-120	-121	-125	-138	-148	-149	-145	-132	-122	-120	-121
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
Firm Peak Load	2,578	2,501	2,238	1,915	3,067	3,827	4,060	3,570	3,374	2,230	2,459	2,773
System Peak (1 Hour)	2,578	2,501	2,238	1,915	3,067	3,827	4,060	3,570	3,374	2,230	2,459	2,773
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Peak Load	2,578	2,501	2,238	1,915	3,067	3,827	4,060	3,570	3,374	2,230	2,459	2,773

## Sales and Load Forecast

## Average Load (Average Megawatts)—70th Percentile

	Jan. 2020	Feb. 2020	Mar. 2020	Apr. 2020	May. 2020	Jun. 2020	Jul. 2020	Aug. 2020	Sep. 2020	Oct. 2020	Nov. 2020	Dec. 2020
Residential.....	884	770	624	528	495	807	809	773	585	557	707	919
Commercial.....	511	485	444	431	441	509	594	563	486	454	481	547
Irrigation.....	1	1	8	97	304	576	627	500	334	52	4	3
Industrial.....	296	295	292	288	293	312	305	306	300	306	302	305
Additional Firm.....	201	198	194	188	183	175	186	182	181	186	193	197
Loss.....	181	166	146	143	163	213	250	229	182	145	159	190
<b>Firm Load</b>	<b>2,074</b>	<b>1,915</b>	<b>1,707</b>	<b>1,676</b>	<b>1,879</b>	<b>2,392</b>	<b>2,772</b>	<b>2,554</b>	<b>2,068</b>	<b>1,699</b>	<b>1,846</b>	<b>2,160</b>
Light Load.....	1,910	1,768	1,571	1,524	1,688	2,150	2,507	2,266	1,882	1,538	1,696	2,009
Heavy Load.....	2,203	2,023	1,815	1,786	2,043	2,568	2,980	2,781	2,217	1,816	1,978	2,280
<b>System Load</b>	<b>2,074</b>	<b>1,915</b>	<b>1,707</b>	<b>1,676</b>	<b>1,879</b>	<b>2,392</b>	<b>2,772</b>	<b>2,554</b>	<b>2,068</b>	<b>1,699</b>	<b>1,846</b>	<b>2,160</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,074</b>	<b>1,915</b>	<b>1,707</b>	<b>1,676</b>	<b>1,879</b>	<b>2,392</b>	<b>2,772</b>	<b>2,554</b>	<b>2,068</b>	<b>1,699</b>	<b>1,846</b>	<b>2,160</b>

## Peak Load (Megawatts)—95th Percentile

	Jan. 2020	Feb. 2020	Mar. 2020	Apr. 2020	May. 2020	Jun. 2020	Jul. 2020	Aug. 2020	Sep. 2020	Oct. 2020	Nov. 2020	Dec. 2020
Energy Efficiency (MW).....	-132	-127	-133	-137	-152	-162	-163	-159	-144	-134	-133	-132
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,586</b>	<b>2,494</b>	<b>2,246</b>	<b>1,918</b>	<b>3,092</b>	<b>3,876</b>	<b>4,118</b>	<b>3,621</b>	<b>3,417</b>	<b>2,239</b>	<b>2,470</b>	<b>2,786</b>
<b>System Peak (1 Hour)</b>	<b>2,586</b>	<b>2,494</b>	<b>2,246</b>	<b>1,918</b>	<b>3,092</b>	<b>3,876</b>	<b>4,118</b>	<b>3,621</b>	<b>3,417</b>	<b>2,239</b>	<b>2,470</b>	<b>2,786</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,586</b>	<b>2,494</b>	<b>2,246</b>	<b>1,918</b>	<b>3,092</b>	<b>3,876</b>	<b>4,118</b>	<b>3,621</b>	<b>3,417</b>	<b>2,239</b>	<b>2,470</b>	<b>2,786</b>

## Sales and Load Forecast

## Average Load (Average Megawatts)—70th Percentile

	Jan. 2021	Feb. 2021	Mar. 2021	Apr. 2021	May. 2021	Jun. 2021	Jul. 2021	Aug. 2021	Sep. 2021	Oct. 2021	Nov. 2021	Dec. 2021
Residential.....	881	766	620	525	494	610	817	781	588	557	706	923
Commercial.....	512	483	446	431	442	513	599	567	488	455	483	549
Irrigation.....	1	1	8	97	303	574	626	499	333	52	4	3
Industrial.....	295	306	293	289	293	312	306	306	300	306	303	305
Additional Firm.....	200	200	193	188	183	175	186	182	181	186	193	197
Loss.....	181	166	145	143	163	214	252	230	182	145	159	190
<b>Firm Load</b>	<b>2,070</b>	<b>1,922</b>	<b>1,705</b>	<b>1,673</b>	<b>1,878</b>	<b>2,398</b>	<b>2,785</b>	<b>2,565</b>	<b>2,073</b>	<b>1,700</b>	<b>1,848</b>	<b>2,167</b>
Light Load.....	1,907	1,775	1,569	1,522	1,687	2,156	2,519	2,276	1,886	1,539	1,698	2,015
Heavy Load.....	2,211	2,032	1,804	1,783	2,042	2,576	2,994	2,794	2,222	1,828	1,969	2,287
<b>System Load</b>	<b>2,070</b>	<b>1,922</b>	<b>1,705</b>	<b>1,673</b>	<b>1,878</b>	<b>2,398</b>	<b>2,785</b>	<b>2,565</b>	<b>2,073</b>	<b>1,700</b>	<b>1,848</b>	<b>2,167</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,070</b>	<b>1,922</b>	<b>1,705</b>	<b>1,673</b>	<b>1,878</b>	<b>2,398</b>	<b>2,785</b>	<b>2,565</b>	<b>2,073</b>	<b>1,700</b>	<b>1,848</b>	<b>2,167</b>

## Peak Load (Megawatts)—95th Percentile

	Jan. 2021	Feb. 2021	Mar. 2021	Apr. 2021	May. 2021	Jun. 2021	Jul. 2021	Aug. 2021	Sep. 2021	Oct. 2021	Nov. 2021	Dec. 2021
Energy Efficiency (MW).....	-145	-144	-143	-149	-165	-176	-177	-172	-157	-146	-144	-144
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,547</b>	<b>2,481</b>	<b>2,229</b>	<b>1,889</b>	<b>3,109</b>	<b>3,916</b>	<b>4,160</b>	<b>3,642</b>	<b>3,458</b>	<b>2,239</b>	<b>2,466</b>	<b>2,754</b>
<b>System Peak (1 Hour)</b>	<b>2,547</b>	<b>2,481</b>	<b>2,229</b>	<b>1,889</b>	<b>3,109</b>	<b>3,916</b>	<b>4,160</b>	<b>3,642</b>	<b>3,458</b>	<b>2,239</b>	<b>2,466</b>	<b>2,754</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,547</b>	<b>2,481</b>	<b>2,229</b>	<b>1,889</b>	<b>3,109</b>	<b>3,916</b>	<b>4,160</b>	<b>3,642</b>	<b>3,458</b>	<b>2,239</b>	<b>2,466</b>	<b>2,754</b>

**Sales and Load Forecast**

**Average Load (Average Megawatts)—70th Percentile**

	Jan. 2022	Feb. 2022	Mar. 2022	Apr. 2022	May. 2022	Jun. 2022	Jul. 2022	Aug. 2022	Sep. 2022	Oct. 2022	Nov. 2022	Dec. 2022
Residential.....	886	769	622	526	498	619	832	795	596	562	711	929
Commercial.....	513	484	447	432	444	517	604	572	491	457	485	552
Irrigation.....	1	1	8	97	301	572	624	497	332	52	4	3
Industrial.....	296	307	294	289	294	313	307	307	301	307	304	307
Additional Firm.....	200	200	193	187	183	175	185	182	181	185	193	197
Loss.....	181	166	146	143	163	215	253	232	183	146	160	191
<b>Firm Load</b>	<b>2,077</b>	<b>1,926</b>	<b>1,709</b>	<b>1,675</b>	<b>1,883</b>	<b>2,411</b>	<b>2,806</b>	<b>2,585</b>	<b>2,085</b>	<b>1,708</b>	<b>1,857</b>	<b>2,178</b>
Light Load.....	1,913	1,778	1,572	1,524	1,691	2,167	2,539	2,293	1,897	1,546	1,706	2,025
Heavy Load.....	2,218	2,036	1,807	1,786	2,047	2,589	3,036	2,796	2,235	1,836	1,978	2,298
<b>System Load</b>	<b>2,077</b>	<b>1,926</b>	<b>1,709</b>	<b>1,675</b>	<b>1,883</b>	<b>2,411</b>	<b>2,806</b>	<b>2,585</b>	<b>2,085</b>	<b>1,708</b>	<b>1,857</b>	<b>2,178</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,077</b>	<b>1,926</b>	<b>1,709</b>	<b>1,675</b>	<b>1,883</b>	<b>2,411</b>	<b>2,806</b>	<b>2,585</b>	<b>2,085</b>	<b>1,708</b>	<b>1,857</b>	<b>2,178</b>

**Peak Load (Megawatts)—95th Percentile**

	Jan. 2022	Feb. 2022	Mar. 2022	Apr. 2022	May. 2022	Jun. 2022	Jul. 2022	Aug. 2022	Sep. 2022	Oct. 2022	Nov. 2022	Dec. 2022
Energy Efficiency (MW).....	-157	-155	-155	-161	-179	-190	-191	-186	-170	-159	-156	-155
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,543</b>	<b>2,477</b>	<b>2,232</b>	<b>1,886</b>	<b>3,131</b>	<b>3,961</b>	<b>4,210</b>	<b>3,685</b>	<b>3,500</b>	<b>2,245</b>	<b>2,474</b>	<b>2,763</b>
<b>System Peak (1 Hour)</b>	<b>2,543</b>	<b>2,477</b>	<b>2,232</b>	<b>1,886</b>	<b>3,131</b>	<b>3,961</b>	<b>4,210</b>	<b>3,685</b>	<b>3,500</b>	<b>2,245</b>	<b>2,474</b>	<b>2,763</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,543</b>	<b>2,477</b>	<b>2,232</b>	<b>1,886</b>	<b>3,131</b>	<b>3,961</b>	<b>4,210</b>	<b>3,685</b>	<b>3,500</b>	<b>2,245</b>	<b>2,474</b>	<b>2,763</b>

### Sales and Load Forecast

#### Average Load (Average Megawatts)—70th Percentile

	Jan. 2023	Feb. 2023	Mar. 2023	Apr. 2023	May. 2023	Jun. 2023	Jul. 2023	Aug. 2023	Sep. 2023	Oct. 2023	Nov. 2023	Dec. 2023
Residential.....	889	770	623	527	500	626	846	809	604	566	715	926
Commercial.....	514	484	447	432	446	521	610	576	494	458	486	552
Irrigation.....	1	1	8	87	301	573	624	498	333	52	4	3
Industrial.....	297	307	294	290	295	314	307	308	302	308	305	306
Additional Firm.....	198	198	192	186	182	173	184	181	180	184	191	195
Loss.....	182	166	146	143	164	216	255	234	184	146	160	190
Firm Load	2,081	1,926	1,709	1,674	1,887	2,424	2,827	2,604	2,096	1,714	1,862	2,173
Light Load.....	1,917	1,779	1,573	1,523	1,695	2,178	2,558	2,310	1,907	1,551	1,710	2,020
Heavy Load.....	2,223	2,036	1,808	1,795	2,039	2,803	3,059	2,816	2,247	1,842	1,983	2,304
System Load	2,081	1,926	1,709	1,674	1,887	2,424	2,827	2,604	2,096	1,714	1,862	2,173
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Load	2,081	1,926	1,709	1,674	1,887	2,424	2,827	2,604	2,096	1,714	1,862	2,173

#### Peak Load (Megawatts)—95th Percentile

	Jan. 2023	Feb. 2023	Mar. 2023	Apr. 2023	May. 2023	Jun. 2023	Jul. 2023	Aug. 2023	Sep. 2023	Oct. 2023	Nov. 2023	Dec. 2023
Energy Efficiency (MW).....	-168	-167	-167	-174	-191	-204	-205	-200	-182	-170	-168	-169
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
Firm Peak Load	2,535	2,470	2,230	1,878	3,153	4,006	4,261	3,726	3,540	2,249	2,479	2,751
System Peak (1 Hour)	2,535	2,470	2,230	1,878	3,153	4,006	4,261	3,726	3,540	2,249	2,479	2,751
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
Total Peak Load	2,535	2,470	2,230	1,878	3,153	4,006	4,261	3,726	3,540	2,249	2,479	2,751

**Sales and Load Forecast**

**Average Load (Average Megawatts)—70th Percentile**

	Jan. 2024	Feb. 2024	Mar. 2024	Apr. 2024	May. 2024	Jun. 2024	Jul. 2024	Aug. 2024	Sep. 2024	Oct. 2024	Nov. 2024	Dec. 2024
Residential.....	879	760	614	519	495	625	848	810	602	561	709	927
Commercial.....	513	485	446	432	447	524	613	578	495	459	486	553
Irrigation.....	1	1	8	96	299	569	620	494	330	51	4	3
Industrial.....	299	297	294	290	296	314	308	308	301	309	305	307
Additional Firm.....	198	195	191	186	181	173	184	180	179	184	191	195
Loss.....	180	164	144	142	163	216	255	234	184	145	159	191
<b>Firm Load</b>	<b>2,071</b>	<b>1,903</b>	<b>1,698</b>	<b>1,665</b>	<b>1,880</b>	<b>2,420</b>	<b>2,827</b>	<b>2,604</b>	<b>2,091</b>	<b>1,709</b>	<b>1,855</b>	<b>2,176</b>
Light Load.....	1,907	1,758	1,562	1,515	1,689	2,175	2,558	2,310	1,903	1,547	1,704	2,023
Heavy Load.....	2,200	2,011	1,805	1,775	2,031	2,616	3,040	2,816	2,256	1,827	1,976	2,307
<b>System Load</b>	<b>2,071</b>	<b>1,903</b>	<b>1,698</b>	<b>1,665</b>	<b>1,880</b>	<b>2,420</b>	<b>2,827</b>	<b>2,604</b>	<b>2,091</b>	<b>1,709</b>	<b>1,855</b>	<b>2,176</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,071</b>	<b>1,903</b>	<b>1,698</b>	<b>1,665</b>	<b>1,880</b>	<b>2,420</b>	<b>2,827</b>	<b>2,604</b>	<b>2,091</b>	<b>1,709</b>	<b>1,855</b>	<b>2,176</b>

**Peak Load (Megawatts)—95th Percentile**

	Jan. 2024	Feb. 2024	Mar. 2024	Apr. 2024	May. 2024	Jun. 2024	Jul. 2024	Aug. 2024	Sep. 2024	Oct. 2024	Nov. 2024	Dec. 2024
Energy Efficiency (MW).....	-180	-173	-180	-185	-203	-218	-219	-214	-196	-181	-180	-181
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,467</b>	<b>2,454</b>	<b>2,193</b>	<b>1,830</b>	<b>3,164</b>	<b>4,039</b>	<b>4,290</b>	<b>3,728</b>	<b>3,580</b>	<b>2,244</b>	<b>2,461</b>	<b>2,688</b>
<b>System Peak (1 Hour)</b>	<b>2,467</b>	<b>2,454</b>	<b>2,193</b>	<b>1,830</b>	<b>3,164</b>	<b>4,039</b>	<b>4,290</b>	<b>3,728</b>	<b>3,580</b>	<b>2,244</b>	<b>2,461</b>	<b>2,688</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,467</b>	<b>2,454</b>	<b>2,193</b>	<b>1,830</b>	<b>3,164</b>	<b>4,039</b>	<b>4,290</b>	<b>3,728</b>	<b>3,580</b>	<b>2,244</b>	<b>2,461</b>	<b>2,688</b>

**Sales and Load Forecast**

**Average Load (Average Megawatts)—70th Percentile**

	Jan. 2025	Feb. 2025	Mar. 2025	Apr. 2025	May. 2025	Jun. 2025	Jul. 2025	Aug. 2025	Sep. 2025	Oct. 2025	Nov. 2025	Dec. 2025
Residential.....	885	763	617	522	499	634	865	826	611	567	716	934
Commercial.....	514	483	447	433	448	528	618	582	498	461	487	556
Irrigation.....	1	1	7	95	297	566	617	491	329	51	4	3
Industrial.....	298	309	295	291	296	315	309	309	303	310	305	308
Additional Firm.....	198	197	191	185	181	173	184	180	179	184	191	194
Loss.....	181	165	145	142	163	217	257	235	185	146	160	192
<b>Firm Load</b>	<b>2,078</b>	<b>1,918</b>	<b>1,702</b>	<b>1,668</b>	<b>1,885</b>	<b>2,433</b>	<b>2,849</b>	<b>2,624</b>	<b>2,104</b>	<b>1,718</b>	<b>1,863</b>	<b>2,186</b>
Light Load.....	1,913	1,771	1,565	1,518	1,693	2,186	2,577	2,328	1,915	1,555	1,711	2,033
Heavy Load.....	2,207	2,028	1,809	1,778	2,036	2,629	3,063	2,857	2,256	1,836	1,996	2,307
<b>System Load</b>	<b>2,078</b>	<b>1,918</b>	<b>1,702</b>	<b>1,668</b>	<b>1,885</b>	<b>2,433</b>	<b>2,849</b>	<b>2,624</b>	<b>2,104</b>	<b>1,718</b>	<b>1,863</b>	<b>2,186</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,078</b>	<b>1,918</b>	<b>1,702</b>	<b>1,668</b>	<b>1,885</b>	<b>2,433</b>	<b>2,849</b>	<b>2,624</b>	<b>2,104</b>	<b>1,718</b>	<b>1,863</b>	<b>2,186</b>

**Peak Load (Megawatts)—95th Percentile**

	Jan. 2025	Feb. 2025	Mar. 2025	Apr. 2025	May. 2025	Jun. 2025	Jul. 2025	Aug. 2025	Sep. 2025	Oct. 2025	Nov. 2025	Dec. 2025
Energy Efficiency (MW).....	-192	-191	-192	-198	-216	-232	-233	-227	-208	-193	-193	-192
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,471</b>	<b>2,430</b>	<b>2,201</b>	<b>1,835</b>	<b>3,186</b>	<b>4,084</b>	<b>4,341</b>	<b>3,776</b>	<b>3,622</b>	<b>2,251</b>	<b>2,471</b>	<b>2,710</b>
<b>System Peak (1 Hour)</b>	<b>2,471</b>	<b>2,430</b>	<b>2,201</b>	<b>1,835</b>	<b>3,186</b>	<b>4,084</b>	<b>4,341</b>	<b>3,776</b>	<b>3,622</b>	<b>2,251</b>	<b>2,471</b>	<b>2,710</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,471</b>	<b>2,430</b>	<b>2,201</b>	<b>1,835</b>	<b>3,186</b>	<b>4,084</b>	<b>4,341</b>	<b>3,776</b>	<b>3,622</b>	<b>2,251</b>	<b>2,471</b>	<b>2,710</b>

**Sales and Load Forecast**

**Average Load (Average Megawatts)—70th Percentile**

	Jan. 2026	Feb. 2026	Mar. 2026	Apr. 2026	May. 2026	Jun. 2026	Jul. 2026	Aug. 2026	Sep. 2026	Oct. 2026	Nov. 2026	Dec. 2026
Residential.....	888	764	617	522	501	642	879	839	618	570	719	931
Commercial.....	514	482	447	433	449	532	623	586	501	462	488	557
Irrigation.....	1	1	8	96	297	567	618	493	330	51	4	3
Industrial.....	299	309	296	291	296	316	309	310	304	311	306	309
Additional Firm.....	196	196	189	184	180	171	182	179	178	182	189	192
Loss.....	181	165	144	142	163	218	259	237	186	147	160	191
<b>Firm Load</b>	<b>2,080</b>	<b>1,918</b>	<b>1,701</b>	<b>1,668</b>	<b>1,887</b>	<b>2,446</b>	<b>2,871</b>	<b>2,644</b>	<b>2,117</b>	<b>1,723</b>	<b>1,866</b>	<b>2,183</b>
Light Load.....	1,915	1,771	1,565	1,517	1,695	2,199	2,597	2,345	1,926	1,559	1,714	2,030
Heavy Load.....	2,210	2,028	1,809	1,778	2,052	2,627	3,087	2,879	2,269	1,841	2,000	2,304
<b>System Load</b>	<b>2,080</b>	<b>1,918</b>	<b>1,701</b>	<b>1,668</b>	<b>1,887</b>	<b>2,446</b>	<b>2,871</b>	<b>2,644</b>	<b>2,117</b>	<b>1,723</b>	<b>1,866</b>	<b>2,183</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,080</b>	<b>1,918</b>	<b>1,701</b>	<b>1,668</b>	<b>1,887</b>	<b>2,446</b>	<b>2,871</b>	<b>2,644</b>	<b>2,117</b>	<b>1,723</b>	<b>1,866</b>	<b>2,183</b>

**Peak Load (Megawatts)—95th Percentile**

	Jan. 2026	Feb. 2026	Mar. 2026	Apr. 2026	May. 2026	Jun. 2026	Jul. 2026	Aug. 2026	Sep. 2026	Oct. 2026	Nov. 2026	Dec. 2026
Energy Efficiency (MW).....	-203	-203	-204	-210	-231	-246	-247	-241	-219	-205	-205	-203
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,460</b>	<b>2,421</b>	<b>2,199</b>	<b>1,828</b>	<b>3,206</b>	<b>4,129</b>	<b>4,393</b>	<b>3,818</b>	<b>3,664</b>	<b>2,254</b>	<b>2,475</b>	<b>2,702</b>
<b>System Peak (1 Hour)</b>	<b>2,460</b>	<b>2,421</b>	<b>2,199</b>	<b>1,828</b>	<b>3,206</b>	<b>4,129</b>	<b>4,393</b>	<b>3,818</b>	<b>3,664</b>	<b>2,254</b>	<b>2,475</b>	<b>2,702</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,460</b>	<b>2,421</b>	<b>2,199</b>	<b>1,828</b>	<b>3,206</b>	<b>4,129</b>	<b>4,393</b>	<b>3,818</b>	<b>3,664</b>	<b>2,254</b>	<b>2,475</b>	<b>2,702</b>

### Sales and Load Forecast

#### Average Load (Average Megawatts)—70th Percentile

	Jan. 2027	Feb. 2027	Mar. 2027	Apr. 2027	May. 2027	Jun. 2027	Jul. 2027	Aug. 2027	Sep. 2027	Oct. 2027	Nov. 2027	Dec. 2027
Residential.....	879	755	610	515	497	641	881	841	617	567	714	927
Commercial.....	513	481	447	433	449	534	627	589	502	462	489	558
Irrigation.....	1	1	7	95	295	563	614	489	328	51	4	3
Industrial.....	299	310	297	292	296	317	310	310	304	311	307	309
Additional Firm.....	195	194	188	182	178	170	181	178	177	180	187	190
Loss.....	180	164	144	141	162	218	260	237	185	146	160	191
<b>Firm Load</b>	<b>2,067</b>	<b>1,905</b>	<b>1,692</b>	<b>1,658</b>	<b>1,878</b>	<b>2,443</b>	<b>2,873</b>	<b>2,644</b>	<b>2,113</b>	<b>1,716</b>	<b>1,861</b>	<b>2,179</b>
Light Load.....	1,903	1,759	1,557	1,508	1,687	2,196	2,599	2,346	1,923	1,553	1,709	2,026
Heavy Load.....	2,207	2,014	1,790	1,767	2,042	2,624	3,089	2,880	2,265	1,845	1,982	2,299
<b>System Load</b>	<b>2,067</b>	<b>1,905</b>	<b>1,692</b>	<b>1,658</b>	<b>1,878</b>	<b>2,443</b>	<b>2,873</b>	<b>2,644</b>	<b>2,113</b>	<b>1,716</b>	<b>1,861</b>	<b>2,179</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,067</b>	<b>1,905</b>	<b>1,692</b>	<b>1,658</b>	<b>1,878</b>	<b>2,443</b>	<b>2,873</b>	<b>2,644</b>	<b>2,113</b>	<b>1,716</b>	<b>1,861</b>	<b>2,179</b>

#### Peak Load (Megawatts)—95th Percentile

	Jan. 2027	Feb. 2027	Mar. 2027	Apr. 2027	May. 2027	Jun. 2027	Jul. 2027	Aug. 2027	Sep. 2027	Oct. 2027	Nov. 2027	Dec. 2027
Energy Efficiency (MW).....	-216	-214	-214	-222	-245	-260	-261	-255	-233	-218	-215	-215
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,393</b>	<b>2,382</b>	<b>2,168</b>	<b>1,783</b>	<b>3,216</b>	<b>4,163</b>	<b>4,424</b>	<b>3,825</b>	<b>3,703</b>	<b>2,247</b>	<b>2,460</b>	<b>2,639</b>
<b>System Peak (1 Hour)</b>	<b>2,393</b>	<b>2,382</b>	<b>2,168</b>	<b>1,783</b>	<b>3,216</b>	<b>4,163</b>	<b>4,424</b>	<b>3,825</b>	<b>3,703</b>	<b>2,247</b>	<b>2,460</b>	<b>2,639</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,393</b>	<b>2,382</b>	<b>2,168</b>	<b>1,783</b>	<b>3,216</b>	<b>4,163</b>	<b>4,424</b>	<b>3,825</b>	<b>3,703</b>	<b>2,247</b>	<b>2,460</b>	<b>2,639</b>

**Sales and Load Forecast**

**Average Load (Average Megawatts)—70th Percentile**

	Jan. 2028	Feb. 2028	Mar. 2028	Apr. 2028	May. 2028	Jun. 2028	Jul. 2028	Aug. 2028	Sep. 2028	Oct. 2028	Nov. 2028	Dec. 2028
Residential.....	876	751	606	511	496	645	890	849	620	566	712	918
Commercial.....	513	484	447	432	451	538	632	592	504	462	489	557
Irrigation.....	1	1	7	94	292	558	608	484	325	50	4	3
Industrial.....	301	300	297	292	297	317	310	311	305	312	308	309
Additional Firm.....	193	190	186	181	177	189	179	176	175	179	186	189
Loss.....	179	163	143	140	162	218	260	238	185	146	160	189
<b>Firm Load</b>	<b>2,063</b>	<b>1,889</b>	<b>1,687</b>	<b>1,650</b>	<b>1,875</b>	<b>2,443</b>	<b>2,879</b>	<b>2,650</b>	<b>2,114</b>	<b>1,715</b>	<b>1,859</b>	<b>2,166</b>
Light Load.....	1,900	1,745	1,552	1,501	1,684	2,196	2,605	2,351	1,924	1,553	1,707	2,014
Heavy Load.....	2,203	1,996	1,784	1,789	2,025	2,624	3,115	2,866	2,266	1,844	1,980	2,297
<b>System Load</b>	<b>2,063</b>	<b>1,889</b>	<b>1,687</b>	<b>1,650</b>	<b>1,875</b>	<b>2,443</b>	<b>2,879</b>	<b>2,650</b>	<b>2,114</b>	<b>1,715</b>	<b>1,859</b>	<b>2,166</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,063</b>	<b>1,889</b>	<b>1,687</b>	<b>1,650</b>	<b>1,875</b>	<b>2,443</b>	<b>2,879</b>	<b>2,650</b>	<b>2,114</b>	<b>1,715</b>	<b>1,859</b>	<b>2,166</b>

**Peak Load (Megawatts)—95th Percentile**

	Jan. 2028	Feb. 2028	Mar. 2028	Apr. 2028	May. 2028	Jun. 2028	Jul. 2028	Aug. 2028	Sep. 2028	Oct. 2028	Nov. 2028	Dec. 2028
Energy Efficiency (MW).....	-228	-218	-226	-235	-257	-274	-275	-269	-245	-230	-227	-228
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,354</b>	<b>2,345</b>	<b>2,152</b>	<b>1,756</b>	<b>3,231</b>	<b>4,199</b>	<b>4,460</b>	<b>3,846</b>	<b>3,743</b>	<b>2,245</b>	<b>2,454</b>	<b>2,595</b>
<b>System Peak (1 Hour)</b>	<b>2,354</b>	<b>2,345</b>	<b>2,152</b>	<b>1,756</b>	<b>3,231</b>	<b>4,199</b>	<b>4,460</b>	<b>3,846</b>	<b>3,743</b>	<b>2,245</b>	<b>2,454</b>	<b>2,595</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,354</b>	<b>2,345</b>	<b>2,152</b>	<b>1,756</b>	<b>3,231</b>	<b>4,199</b>	<b>4,460</b>	<b>3,846</b>	<b>3,743</b>	<b>2,245</b>	<b>2,454</b>	<b>2,595</b>

### Sales and Load Forecast

#### Average Load (Average Megawatts)—70th Percentile

	Jan. 2029	Feb. 2029	Mar. 2029	Apr. 2029	May. 2029	Jun. 2029	Jul. 2029	Aug. 2029	Sep. 2029	Oct. 2029	Nov. 2029	Dec. 2029
Residential.....	860	735	593	500	487	638	885	844	613	558	701	911
Commercial.....	512	478	446	431	450	540	635	594	504	463	489	558
Irrigation.....	1	1	7	93	288	550	599	477	320	50	4	3
Industrial.....	300	311	297	292	298	317	310	311	304	312	308	310
Additional Firm.....	191	190	185	180	175	167	178	175	174	177	184	187
Loss.....	177	161	141	138	160	216	259	236	184	145	158	188
<b>Firm Load</b>	<b>2,042</b>	<b>1,877</b>	<b>1,670</b>	<b>1,634</b>	<b>1,859</b>	<b>2,429</b>	<b>2,866</b>	<b>2,637</b>	<b>2,100</b>	<b>1,704</b>	<b>1,844</b>	<b>2,157</b>
Light Load.....	1,880	1,733	1,536	1,486	1,670	2,183	2,593	2,340	1,911	1,542	1,694	2,005
Heavy Load.....	2,169	1,985	1,766	1,751	2,008	2,608	3,101	2,852	2,265	1,821	1,965	2,287
<b>System Load</b>	<b>2,042</b>	<b>1,877</b>	<b>1,670</b>	<b>1,634</b>	<b>1,859</b>	<b>2,429</b>	<b>2,866</b>	<b>2,637</b>	<b>2,100</b>	<b>1,704</b>	<b>1,844</b>	<b>2,157</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,042</b>	<b>1,877</b>	<b>1,670</b>	<b>1,634</b>	<b>1,859</b>	<b>2,429</b>	<b>2,866</b>	<b>2,637</b>	<b>2,100</b>	<b>1,704</b>	<b>1,844</b>	<b>2,157</b>

#### Peak Load (Megawatts)—95th Percentile

	Jan. 2029	Feb. 2029	Mar. 2029	Apr. 2029	May. 2029	Jun. 2029	Jul. 2029	Aug. 2029	Sep. 2029	Oct. 2029	Nov. 2029	Dec. 2029
Energy Efficiency (MW).....	-239	-238	-237	-247	-270	-288	-289	-282	-260	-241	-238	-240
Demand Response (MW).....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>2,248</b>	<b>2,296</b>	<b>2,100</b>	<b>1,687</b>	<b>3,234</b>	<b>4,225</b>	<b>4,475</b>	<b>3,828</b>	<b>3,780</b>	<b>2,234</b>	<b>2,424</b>	<b>2,493</b>
<b>System Peak (1 Hour)</b>	<b>2,248</b>	<b>2,296</b>	<b>2,100</b>	<b>1,687</b>	<b>3,234</b>	<b>4,225</b>	<b>4,475</b>	<b>3,828</b>	<b>3,780</b>	<b>2,234</b>	<b>2,424</b>	<b>2,493</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>2,248</b>	<b>2,296</b>	<b>2,100</b>	<b>1,687</b>	<b>3,234</b>	<b>4,225</b>	<b>4,475</b>	<b>3,828</b>	<b>3,780</b>	<b>2,234</b>	<b>2,424</b>	<b>2,493</b>

Sales And Load Forecast Annual Summary

Billed Sales (Megawatthours)—70th Percentile										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Residential.....	5,328,002	5,418,985	5,545,564	5,544,988	5,661,123	5,705,655	5,765,013	5,826,541	5,885,328	5,956,803
Commercial.....	3,879,270	3,941,139	4,032,057	4,101,010	4,154,617	4,189,349	4,220,439	4,250,624	4,280,729	4,310,468
Irrigation.....	1,843,349	1,852,905	1,839,741	1,828,330	1,822,297	1,828,366	1,826,719	1,828,104	1,830,375	1,834,057
Industrial.....	2,196,153	2,441,884	2,567,526	2,589,054	2,599,655	2,604,497	2,611,034	2,616,668	2,622,321	2,628,531
Additional Firm.....	1,428,995	1,604,959	1,621,276	1,687,195	1,689,907	1,689,231	1,683,727	1,678,357	1,676,318	1,657,486
Firm Sales	14,675,769	15,259,872	15,606,163	15,750,577	15,927,598	16,017,097	16,106,932	16,200,294	16,295,071	16,387,145
System Sales	14,675,769	15,259,872	15,606,163	15,750,577	15,927,598	16,017,097	16,106,932	16,200,294	16,295,071	16,387,145
Firm Off-System Sales	0	0	0	0	0	0	0	0	0	0
Total Sales	14,675,769	15,259,872	15,606,163	15,750,577	15,927,598	16,017,097	16,106,932	16,200,294	16,295,071	16,387,145

Generation Month Sales (Megawatthours)—70th Percentile										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Residential.....	5,334,508	5,427,771	5,563,366	5,562,985	5,663,976	5,709,516	5,787,335	5,830,320	5,889,944	5,961,403
Commercial.....	3,884,769	3,948,400	4,049,553	4,106,225	4,158,805	4,193,329	4,236,696	4,254,529	4,284,602	4,314,243
Irrigation.....	1,843,364	1,852,901	1,839,761	1,828,330	1,822,306	1,828,368	1,826,747	1,828,110	1,830,382	1,834,065
Industrial.....	2,211,419	2,457,547	2,569,645	2,589,952	2,600,158	2,605,016	2,611,732	2,616,883	2,622,847	2,628,952
Additional Firm.....	1,428,995	1,604,959	1,621,276	1,687,195	1,689,907	1,689,231	1,683,727	1,678,357	1,676,318	1,657,486
Firm Sales	14,703,056	15,291,579	15,643,600	15,764,687	15,935,152	16,025,461	16,146,238	16,208,198	16,304,092	16,396,149
System Sales	14,703,056	15,291,579	15,643,600	15,764,687	15,935,152	16,025,461	16,146,238	16,208,198	16,304,092	16,396,149
Firm Off-System Sales	0	0	0	0	0	0	0	0	0	0
Total Sales	14,703,056	15,291,579	15,643,600	15,764,687	15,935,152	16,025,461	16,146,238	16,208,198	16,304,092	16,396,149
Loss.....	1,431,207	1,473,533	1,504,984	1,512,273	1,529,009	1,537,408	1,549,452	1,565,035	1,564,084	1,573,950
Required Generation	16,134,263	16,765,112	17,148,584	17,276,961	17,464,161	17,562,869	17,695,690	17,763,233	17,868,177	17,970,099

Average Load (Average Megawatts)—70th Percentile										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Residential.....	609	620	633	634	647	652	659	666	672	681
Commercial.....	443	451	461	469	475	479	482	486	489	492
Irrigation.....	210	212	209	209	208	209	208	209	209	209
Industrial.....	252	281	293	296	297	297	297	299	299	300
Additional Firm.....	163	183	185	193	193	193	192	192	191	189
Loss.....	163	168	171	173	175	176	176	178	179	180
Firm Load	1,842	1,914	1,952	1,972	1,994	2,005	2,015	2,028	2,040	2,051
Light Load.....	1,676	1,741	1,776	1,794	1,814	1,824	1,833	1,845	1,856	1,866
Heavy Load.....	1,972	2,049	2,091	2,112	2,135	2,147	2,157	2,172	2,184	2,196
System Load	1,842	1,914	1,952	1,972	1,994	2,005	2,015	2,028	2,040	2,051
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0
Total Load	1,842	1,914	1,952	1,972	1,994	2,005	2,015	2,028	2,040	2,051

Peak Load (Megawatts)—95th Percentile										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Energy Efficiency (Mw).....	-17	-33	-48	-64	-79	-93	-107	-121	-135	-149
Demand Response (Mw).....	0	0	0	0	0	0	0	0	0	0
Firm Peak Load	3,460	3,560	3,636	3,726	3,789	3,843	3,895	3,949	4,003	4,060
System Peak (1 Hour)	3,460	3,560	3,636	3,726	3,789	3,843	3,895	3,949	4,003	4,060
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0
Total Peak Load	3,460	3,560	3,636	3,726	3,789	3,843	3,895	3,949	4,003	4,060

Sales And Load Forecast Annual Summary

Billed Sales (Megawatthours)—70th Percentile

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Residential.....	6,030,952	6,034,404	6,091,486	6,139,032	6,092,711	6,160,567	6,205,253	6,168,525	6,172,246	6,083,732
Commercial.....	4,338,582	4,356,860	4,378,082	4,395,931	4,401,688	4,419,613	4,435,517	4,442,344	4,462,730	4,454,123
Irrigation.....	1,839,802	1,835,870	1,829,770	1,830,840	1,817,719	1,808,195	1,812,587	1,801,062	1,783,250	1,756,646
Industrial.....	2,634,391	2,637,943	2,644,929	2,652,534	2,655,893	2,661,668	2,668,570	2,671,916	2,678,550	2,679,036
Additional Firm.....	1,657,426	1,651,857	1,650,315	1,636,705	1,632,964	1,619,435	1,605,524	1,595,267	1,578,775	
<b>Firm Sales</b>	<b>16,501,153</b>	<b>16,516,933</b>	<b>16,594,582</b>	<b>16,655,042</b>	<b>16,606,060</b>	<b>16,682,926</b>	<b>16,741,362</b>	<b>16,689,371</b>	<b>16,682,043</b>	<b>16,552,312</b>
<b>System Sales</b>	<b>16,501,153</b>	<b>16,516,933</b>	<b>16,594,582</b>	<b>16,655,042</b>	<b>16,606,060</b>	<b>16,682,926</b>	<b>16,741,362</b>	<b>16,689,371</b>	<b>16,682,043</b>	<b>16,552,312</b>
Firm Off-System Sales	0	0	0	0	0	0	0	0	0	0
<b>Total Sales</b>	<b>16,501,153</b>	<b>16,516,933</b>	<b>16,594,582</b>	<b>16,655,042</b>	<b>16,606,060</b>	<b>16,682,926</b>	<b>16,741,362</b>	<b>16,689,371</b>	<b>16,682,043</b>	<b>16,552,312</b>

Generation Month Sales (Megawatthours)—70th Percentile

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Residential.....	6,049,707	6,037,977	6,094,395	6,135,523	6,115,664	6,163,222	6,202,384	6,168,388	6,184,488	6,083,052
Commercial.....	4,354,848	4,360,247	4,381,280	4,398,479	4,418,419	4,422,680	4,438,096	4,445,102	4,469,029	4,466,843
Irrigation.....	1,839,826	1,835,869	1,829,775	1,830,833	1,817,738	1,808,202	1,812,581	1,801,051	1,783,255	1,756,627
Industrial.....	2,634,963	2,638,631	2,645,784	2,652,260	2,656,430	2,662,466	2,668,880	2,672,483	2,678,356	2,679,387
Additional Firm.....	1,657,426	1,651,857	1,650,315	1,636,705	1,638,050	1,632,964	1,619,435	1,605,524	1,595,267	1,578,775
<b>Firm Sales</b>	<b>16,536,770</b>	<b>16,524,581</b>	<b>16,601,540</b>	<b>16,653,801</b>	<b>16,646,300</b>	<b>16,689,534</b>	<b>16,741,377</b>	<b>16,692,548</b>	<b>16,710,395</b>	<b>16,554,683</b>
<b>System Sales</b>	<b>16,536,770</b>	<b>16,524,581</b>	<b>16,601,540</b>	<b>16,653,801</b>	<b>16,646,300</b>	<b>16,689,534</b>	<b>16,741,377</b>	<b>16,692,548</b>	<b>16,710,395</b>	<b>16,554,683</b>
Firm Off-System Sales	0	0	0	0	0	0	0	0	0	0
<b>Total Sales</b>	<b>16,536,770</b>	<b>16,524,581</b>	<b>16,601,540</b>	<b>16,653,801</b>	<b>16,646,300</b>	<b>16,689,534</b>	<b>16,741,377</b>	<b>16,692,548</b>	<b>16,710,395</b>	<b>16,554,683</b>
Loss.....	1,587,760	1,585,325	1,592,238	1,597,369	1,595,017	1,598,504	1,603,588	1,597,833	1,599,044	1,581,886
<b>Required Generation</b>	<b>18,124,531</b>	<b>18,109,906</b>	<b>18,193,778</b>	<b>18,251,170</b>	<b>18,241,317</b>	<b>18,288,039</b>	<b>18,344,965</b>	<b>18,290,381</b>	<b>18,309,439</b>	<b>18,136,570</b>

Average Load (Average Megawatts)—70th Percentile

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Residential.....	689	689	696	700	696	704	708	704	704	694
Commercial.....	496	498	500	502	503	505	507	507	509	509
Irrigation.....	209	210	209	209	207	206	207	206	203	201
Industrial.....	300	301	302	303	302	304	305	305	305	306
Additional Firm.....	189	189	188	187	186	186	185	183	182	180
Loss.....	181	181	182	182	182	182	183	182	182	181
<b>Firm Load</b>	<b>2,063</b>	<b>2,067</b>	<b>2,077</b>	<b>2,083</b>	<b>2,077</b>	<b>2,088</b>	<b>2,094</b>	<b>2,088</b>	<b>2,084</b>	<b>2,070</b>
<b>Light Load</b>	<b>1,877</b>	<b>1,881</b>	<b>1,889</b>	<b>1,895</b>	<b>1,889</b>	<b>1,899</b>	<b>1,905</b>	<b>1,899</b>	<b>1,896</b>	<b>1,883</b>
<b>Heavy Load</b>	<b>2,209</b>	<b>2,214</b>	<b>2,224</b>	<b>2,232</b>	<b>2,223</b>	<b>2,236</b>	<b>2,243</b>	<b>2,236</b>	<b>2,233</b>	<b>2,217</b>
<b>System Load</b>	<b>2,063</b>	<b>2,067</b>	<b>2,077</b>	<b>2,083</b>	<b>2,077</b>	<b>2,088</b>	<b>2,094</b>	<b>2,088</b>	<b>2,084</b>	<b>2,070</b>
Firm Off-System Load.....	0	0	0	0	0	0	0	0	0	0
<b>Total Load</b>	<b>2,063</b>	<b>2,067</b>	<b>2,077</b>	<b>2,083</b>	<b>2,077</b>	<b>2,088</b>	<b>2,094</b>	<b>2,088</b>	<b>2,084</b>	<b>2,070</b>

Peak Load (Megawatts)—95th Percentile

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Energy Efficiency (Mw).....	-163	-177	-191	-205	-219	-233	-247	-261	-275	-289
Demand Response (Mw).....	0	0	0	0	0	0	0	0	0	0
<b>Firm Peak Load</b>	<b>4,118</b>	<b>4,160</b>	<b>4,210</b>	<b>4,261</b>	<b>4,290</b>	<b>4,341</b>	<b>4,393</b>	<b>4,424</b>	<b>4,460</b>	<b>4,475</b>
<b>System Peak (1 Hour)</b>	<b>4,118</b>	<b>4,160</b>	<b>4,210</b>	<b>4,261</b>	<b>4,290</b>	<b>4,341</b>	<b>4,393</b>	<b>4,424</b>	<b>4,460</b>	<b>4,475</b>
Firm Off-System Peak.....	0	0	0	0	0	0	0	0	0	0
Loss.....	0	0	0	0	0	0	0	0	0	0
<b>Total Peak Load</b>	<b>4,118</b>	<b>4,160</b>	<b>4,210</b>	<b>4,261</b>	<b>4,290</b>	<b>4,341</b>	<b>4,393</b>	<b>4,424</b>	<b>4,460</b>	<b>4,475</b>

## EXISTING RESOURCE DATA

### Hydroelectric and Thermal Plant Data

Hydroelectric Power Plants	Nameplate		Normal Rating kW <sup>(4)</sup>	Emergency Rating kW <sup>(5)</sup>
	kVA	kW		
American Falls.....	102,600	92,340	92,340	108,850
Bliss.....	86,250	75,000	75,000	76,470
Brownlee.....	650,444	585,400	585,400	746,570
Cascade.....	13,800	12,420	12,420	14,800
Clear Lake.....	3,125	2,500 <sup>(1)</sup>	2,420	2,420
Hells Canyon.....	435,000	391,500	391,500	444,830
Lower Salmon.....	70,000	60,000	60,000	64,340
Malad-Lower.....	15,500	13,500	13,500	16,520
Malad-Upper.....	9,650	8,270	8,270	8,540
Milner.....	62,890	59,448	59,448	61,090
Oxbow.....	211,112	190,000	190,000	221,410
Shoshone Falls.....	14,900	12,500 <sup>(1)</sup>	12,500	14,040
Strike, C.J.....	90,000	82,800	82,800	90,720
Swan Falls.....	28,600	27,170	24,170 <sup>(3)</sup>	24,170
Thousand Springs.....	11,000	8,800 <sup>(1)</sup>	6,380 <sup>(2)</sup>	6,380
Twin Falls.....	56,175	52,897	52,561	53,060
Upper Salmon "A".....	18,000	18,000	18,000	18,930
Upper Salmon "B".....	18,000	16,500	16,500	17,510
<b>Total Hydro</b>	<b>1,897,046</b>	<b>1,709,045</b>		

Thermal, Natural Gas, and Diesel Power Plants	Generator Nameplate Rating		Net Dependable Capability (NDC) kW <sup>(6)</sup>
	Gross kVA	Gross kW	
Bridger (IPC Share).....	811,053	770,501	706,667
Boardman (IPC Share).....	67,600	64,200	58,600
Valmy (IPC Share).....	315,000	283,500	258,250
<b>Total Thermal</b>	<b>1,193,653</b>	<b>1,118,201</b>	<b>1,023,517</b>
Bennett Mountain.....	192,000	172,800	164,159
Evander Andrews Unit #1...	189,994	170,955	170,955
Evander Andrews Unit #2...	51,000	45,900	45,236
Evander Andrews Unit #3...	51,000	45,900	45,236
<b>Total Natural Gas</b>	<b>483,994</b>	<b>435,555</b>	<b>425,586</b>
Salmon Diesel.....	6,880	5,000	5,500
<b>Total IPC Generation</b>	<b>3,581,573</b>	<b>3,267,801</b>	

<sup>(1)</sup> A power factor rating of 0.8 is assumed on four units (Clear Lake, Unit #2 at Shoshone Falls, and Units #1 and #2 at Thousand Springs) with a total kVA rating of 6,127 kVA on which there is no nameplate kW rating.

<sup>(2)</sup> The two smaller units, #1 and #2, both having nameplate ratings of 1.25 MVA and 1 MW, have been taken out of service due to reduced flows from the springs and penstock integrity.

<sup>(3)</sup> The Swan Falls units have been limited to 24,170 kW as a result of vibration issues.

<sup>(4)</sup> The Normal Rating is defined as the normal kW output of the facility with all units on-line. This rating includes all equipment limitations and may be lower than the nameplate rating. To operate at the Normal Rating, appropriate water conditions must exist and the FERC license requirements permit.

<sup>(5)</sup> The Emergency Rating is defined as the maximum kW output of the facility with all units on-line. The Emergency Rating is based on allowable generator overloads and limited by auxiliary equipment ratings. To operate at the Emergency Rating, appropriate water conditions must exist and the FERC license requirements permit.

<sup>(6)</sup> Net Dependable Capacity (NDC) is defined in the NERC Generating Availability Data System (GADS) as Gross Dependable Capacity (GDC) less the unit capacity utilized for that unit's station service or auxiliaries. GDC is the Gross Maximum Capacity (GMC) modified for seasonal limitations over a specified period of time. The GDC and MDC (Maximum Dependable Capacity) used in previous GADS reports are the same in intent and purpose. GMC is the maximum capacity a unit can sustain over a specified period of time when not restricted by seasonal or other deratings.

**Idaho Power Company  
Qualifying Facilities  
Cogeneration and Small Power Production Projects  
Status as of June 1, 2009**

Project		Contract			Project		Contract		
		On-line Date	End Date	On-line Date			End Date		
<b>Hydro Projects</b>									
Barber Dam	Hydro	3.70	Apr-1989	Apr-2024	Lowline Canal	Hydro	2.50	May-1985	Apr-2005
Birch Creek	Hydro	0.05	Nov-1984	Oct-2019	Magic Reservoir	Hydro	9.07	Jun-1989	May-2024
Black Canyon #3	Hydro	0.14	Apr-1984	Apr-2019	Melad River	Hydro	0.82	May-1984	Apr-2019
Blind Canyon	Hydro	1.50	Dec-1994	Dec-2014	Marbo Ranches	Hydro	1.20	Aug-1985	Jul-2020
Box Canyon	Hydro	0.36	Feb-1984	Feb-2019	Mill 26	Hydro	1.50	Jun-1994	May-2029
Briggs Creek	Hydro	0.60	Oct-1985	Oct-2020	Mitchell Butte	Hydro	2.09	May-1989	May-2024
Bypass	Hydro	9.96	Jun-1988	Jun-2023	Mora Drop	Hydro	1.90	Oct-2003	Estimated
Canyon Springs	Hydro	0.13	Oct-1984	Non firm	Mud Creek S&S	Hydro	0.52	Feb-1982	Feb-2017
Cedar Draw	Hydro	1.55	Jun-1984	May-2019	Mud Creek White	Hydro	0.21	Jan-1986	Jan-2021
Clear Springs Trout	Hydro	0.52	Nov-1983	Oct-2018	Owyhee Dam CSPP	Hydro	5.00	Aug-1985	Aug-2015
Crystal Springs	Hydro	2.44	Apr-1986	Mar-2021	Pigeon Cove	Hydro	1.89	Oct-1984	Oct-2019
Cumy Cattle Company	Hydro	0.22	Jun-1983	Jun-2018	Pisnhe Springs	Hydro	0.13	May-2005	Apr-2015
District Drop	Hydro	4.50	Aug-1988	Aug-2023	Pristine Springs #3	Hydro	0.20	May-2005	Apr-2015
Elk Creek	Hydro	2.00	May-1986	May-2021	Reynolds Irrigation	Hydro	0.26	May-1986	May-2021
Falls River	Hydro	9.10	Aug-1993	Aug-2028	Rim View	Hydro	0.20	Nov-2000	Non firm
Faulkner Ranch	Hydro	0.87	Aug-1987	Aug-2022	Rock Creek #1	Hydro	2.05	Sep-1983	Sep-2018
Fisheries Development Co.	Hydro	0.28	Jul-1990	Non firm	Rook Creek #2	Hydro	1.90	Apr-1989	Mar-2024
Geo Bon #2	Hydro	0.93	Nov-1986	Nov-2021	Sagebrush	Hydro	0.43	Sep-1985	Aug-2020
Hailey CSPP	Hydro	0.08	Jun-1985	Jun-2020	Sahko Hydro	Hydro	0.50	Jun-2006	Non firm
Hazleton A.	Hydro	7.70	Jun-1990	Jun-2010	Schaffner	Hydro	0.53	Aug-1986	Jul-2021
Hazleton B.	Hydro	7.60	May-1993	Apr-2028	Shingle Creek	Hydro	0.22	Aug-1983	Jul-2018
Horseshoe Bend Hydroelectric	Hydro	9.50	Sep-1995	Sep-2030	Shoshone #2	Hydro	0.58	May-1986	Apr-2031
Jim Knight	Hydro	0.34	Jun-1985	Jun-2020	Shoshone CSPP	Hydro	0.37	Jun-1982	Jun-2017
Kasel and Witherspoon	Hydro	0.90	Mar-1984	Feb-2019	Snake River Pottery	Hydro	0.07	Nov-1984	Nov-2019
Koyle Small Hydro	Hydro	1.25	Apr-1984	Mar-2019	Snediger	Hydro	0.54	Jan-1985	Dec-2019
Lateral # 10	Hydro	2.08	May-1985	Apr-2020	Tiber Dam	Hydro	7.50	Jun-2004	May-2024
Lemoine	Hydro	0.08	Jun-1985	Jun-2020	Trout-Co	Hydro	0.24	Dec-1986	Nov-2021
Little Wood Rvr Res.	Hydro	2.85	Feb-1985	Feb-2020	Tunnel #1	Hydro	7.00	Jun-1993	May-2028
Littlewood - Arkoosh	Hydro	0.87	Aug-1986	Jul-2021	White Water Ranch	Hydro	0.16	Aug-1985	Jul-2020
Low Line Midway Hydro	Hydro	7.97	Aug-2007	Aug-2027	Wilson Lake Hydro	Hydro	8.40	May-1993	May-2028
Lowline #2	Hydro	2.79	Apr-1986	Apr-2023					
<b>Total Hydro Nameplate MWrating 140.55</b>									
<b>Thermal Projects</b>									
Magic Valley	Natural Gas	10.00	Nov-1996	Nov-2016	Simplex Pocatello	Cogen	12.00	Mar-2006	Feb-2016
Magic West	Natural Gas	10.00	Dec-1996	Nov-2016	TASCO—Nampa	Natural Gas	2.00	Sep-2003	Aug-2008
					TASCO—Twin Falls	Natural Gas	3.00	Aug-2001	Aug-2008
<b>Total Thermal Nameplate MWrating 37.00</b>									
<b>Biomass Projects</b>									
Bettencourt Dry Creek Biofactory	Biomass	2.25	Aug-2008	Non-firm	Pocatello Waste	Biomass	0.46	Dec-1995	Dec-2020
Big Sky West Dairy Digester	Biomass	1.50	Jan-2009	Jan-2029	Tamarack CSPP	Biomass	5.00	Jun-1983	May-2018
CO-GEN CO	Biomass	9.40	Jul-2008	Jul-09	Vaagen Brothers Lumber Inc.	Biomass	4.50	Sep-1995	Aug-2010
Hidden Hollow Landfill Gas	Biomass	3.20	Oct-2006	Jul-2009					
<b>Total Biomass Nameplate MWrating 26.31</b>									
<b>Wind Projects</b>									
Bennett Creek Wind Farm	Wind	19.80	Dec-2008	Dec-2028	Magic Wind Park	Wind	19.50	Sep-2010	Estimated
Burley Butte Wind	Wind	10.50	Sep-2010	Estimated	Milner Dam Wind	Wind	19.50	Sep-2010	Estimated
Cassia Farm	Wind	10.50	Feb-2009	Feb-2029	Notch Butte Wind	Wind	18.00	Sep-2010	Estimated
Cassia Gulch	Wind	18.00	Feb-2009	Feb-2029	Oregon Trail Wind	Wind	13.50	Sep-2010	Estimated
Fossil Gulch Wind	Wind	10.50	Sep-2005	Sep-2025	Pilgrim Stage Station Wind	Wind	10.50	Sep-2010	Estimated
Golden Valley Wind	Wind	12.00	Sep-2010	Estimated	Salmon Falls Wind	Wind	19.50	Sep-2010	Estimated
Horseshoe Bend Wind Park	Wind	9.00	Feb-2008	Feb-2028	Thousand Springs Wind	Wind	12.00	Sep-2010	Estimated
Hot Springs Wind Farm	Wind	19.80	Mar-2008	Mar-2028	Tuana Gulch Wind	Wind	10.50	Sep-2010	Estimated
Lava Beds Wind	Wind	18.00	Sep-2010	Estimated					
<b>Total Wind Nameplate MWrating 262.00</b>									
<b>Geothermal Projects</b>									
None									
<b>Total Geothermal Nameplate MWrating 0.00</b>									
<b>Total Nameplate MWrating 455.86</b>									

**Cogeneration and Small Power Production Project (CSPP) Generation Information**

The above is a summary of the Nameplate rating for the CSPP projects under contract with Idaho Power. In the case of CSPP projects, Nameplate rating of the actual generation units is not an accurate or reasonable estimate of the actual energy these projects will deliver to Idaho Power. Historical Generation information, resource specific industry standard capacity factors, and other known and measurable operating characteristics are accounted for in determining a reasonable estimate of the energy these projects will produce. The application of this information to the portfolio of CSPP projects resulted in the average annual MW from CSPP projects being 150 MW beginning in 2011. Projects listed in this appendix are included in the CSPP forecast and were signed and approved contracts as of June 1, 2009.

**Idaho Power Company**  
**Power Purchase Agreements**

**Status as of June 1, 2009**

Project	MW	Contract	
		On-Line Date	End Date
<b>Wind Projects</b>			
Elkhorn Wind Project .....	Wind	101	Dec-2007      Dec-2027
<b>Total Wind Nameplate MW Rating*</b>		<b>101</b>	
<b>Geothermal Projects</b>			
Raft River Unit #1 .....	Geothermal	13	Apr-2008      Apr-2033
<b>Total Geothermal Nameplate MW Rating*</b>		<b>13</b>	
<b>Total Nameplate MW Rating</b>		<b>114</b>	

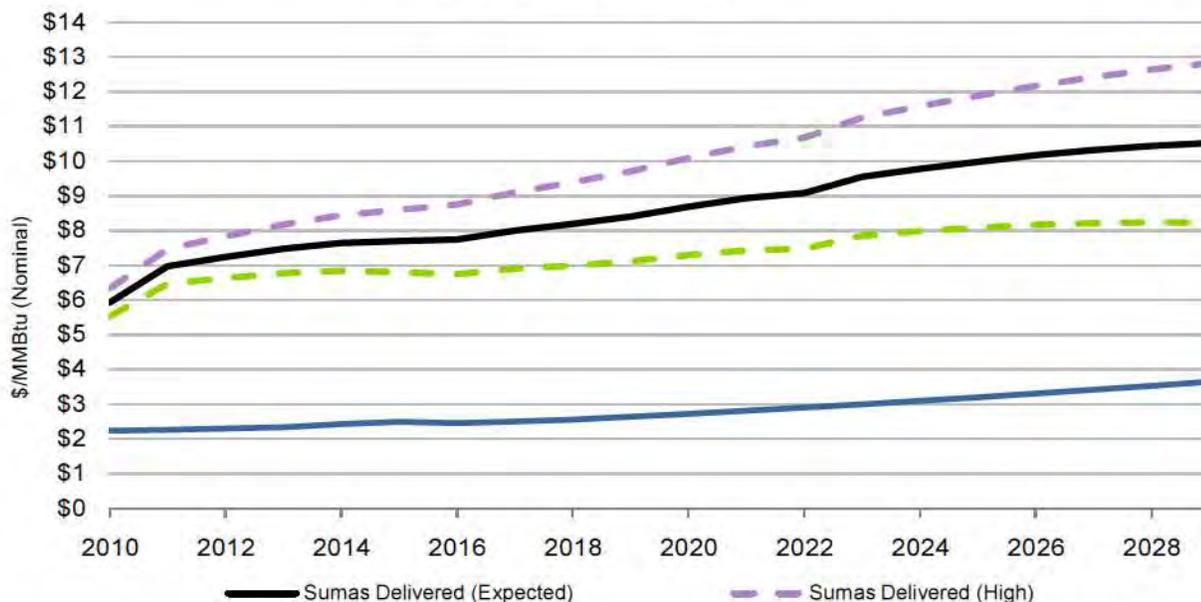
\*The above is a summary of the nameplate ratings for the Power Purchase Agreements under contract with Idaho Power. Nameplate ratings of the actual generation units is not an accurate or reasonable estimate of the actual energy these projects will deliver to Idaho Power. Historical generation information, resource specific industry standard capacity factors, and other known and measurable operating characteristics are accounted for in determining a reasonable estimate of the energy the projects will produce.

## FUEL DATA

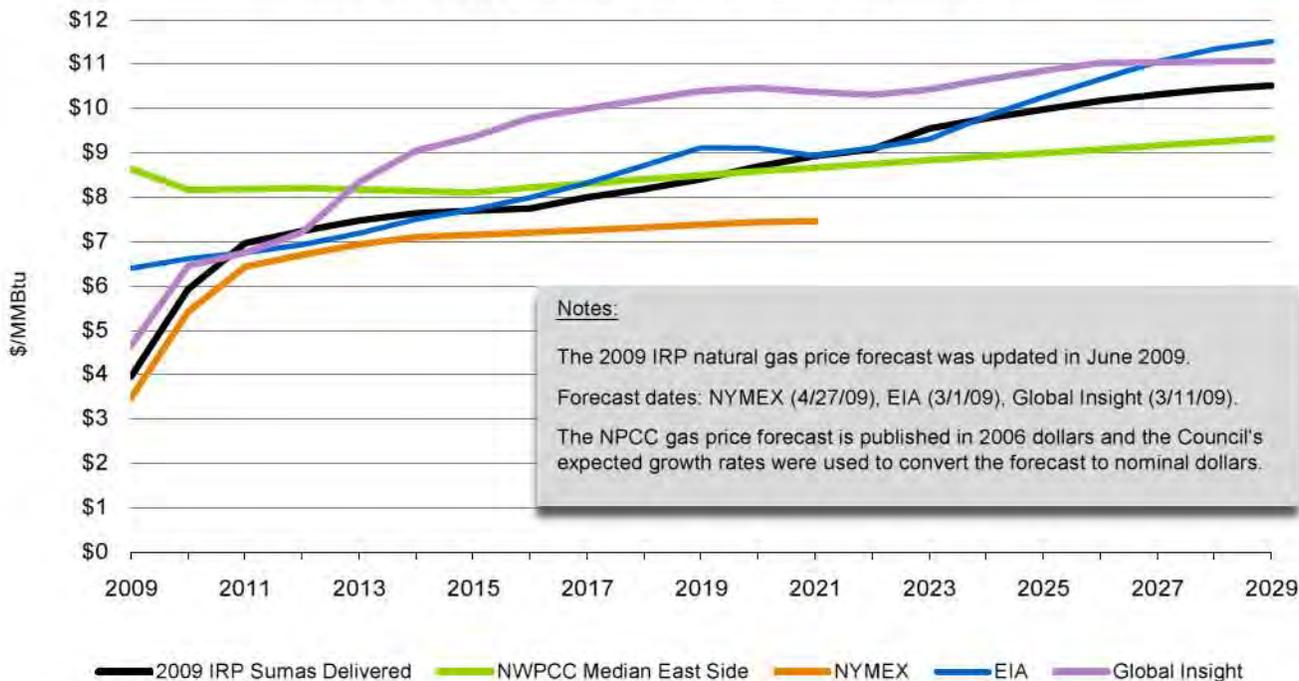
**Gas and Coal Forecast—Data and Graphs**

Year	Henry Hub	Sumas	Sumas Delivered (Expected)	Sumas Delivered (High)	Sumas Delivered (Low)	Regional Coal
2010	\$5.81	\$5.41	\$5.93	\$6.33	\$5.53	\$2.23
2011	\$6.75	\$6.44	\$6.97	\$7.47	\$6.47	\$2.26
2012	\$7.10	\$6.70	\$7.23	\$7.83	\$6.63	\$2.30
2013	\$7.23	\$6.93	\$7.47	\$8.17	\$6.77	\$2.34
2014	\$7.32	\$7.10	\$7.64	\$8.44	\$6.84	\$2.43
2015	\$7.42	\$7.15	\$7.69	\$8.59	\$6.79	\$2.49
2016	\$7.51	\$7.20	\$7.74	\$8.74	\$6.74	\$2.46
2017	\$7.81	\$7.45	\$7.99	\$9.09	\$6.89	\$2.50
2018	\$8.05	\$7.64	\$8.19	\$9.39	\$6.99	\$2.55
2019	\$8.31	\$7.86	\$8.40	\$9.70	\$7.10	\$2.63
2020	\$8.64	\$8.14	\$8.69	\$10.09	\$7.29	\$2.72
2021	\$8.93	\$8.38	\$8.93	\$10.43	\$7.43	\$2.81
2022	\$9.10	\$8.48	\$9.08	\$10.68	\$7.48	\$2.90
2023	\$9.65	\$8.95	\$9.55	\$11.25	\$7.85	\$3.00
2024	\$9.96	\$9.18	\$9.78	\$11.58	\$7.98	\$3.10
2025	\$10.26	\$9.37	\$9.98	\$11.88	\$8.08	\$3.20
2026	\$10.57	\$9.55	\$10.17	\$12.17	\$8.17	\$3.30
2027	\$10.85	\$9.70	\$10.31	\$12.41	\$8.21	\$3.41
2028	\$11.14	\$9.81	\$10.43	\$12.63	\$8.23	\$3.53
2029	\$11.43	\$9.90	\$10.52	\$12.82	\$8.22	\$3.65

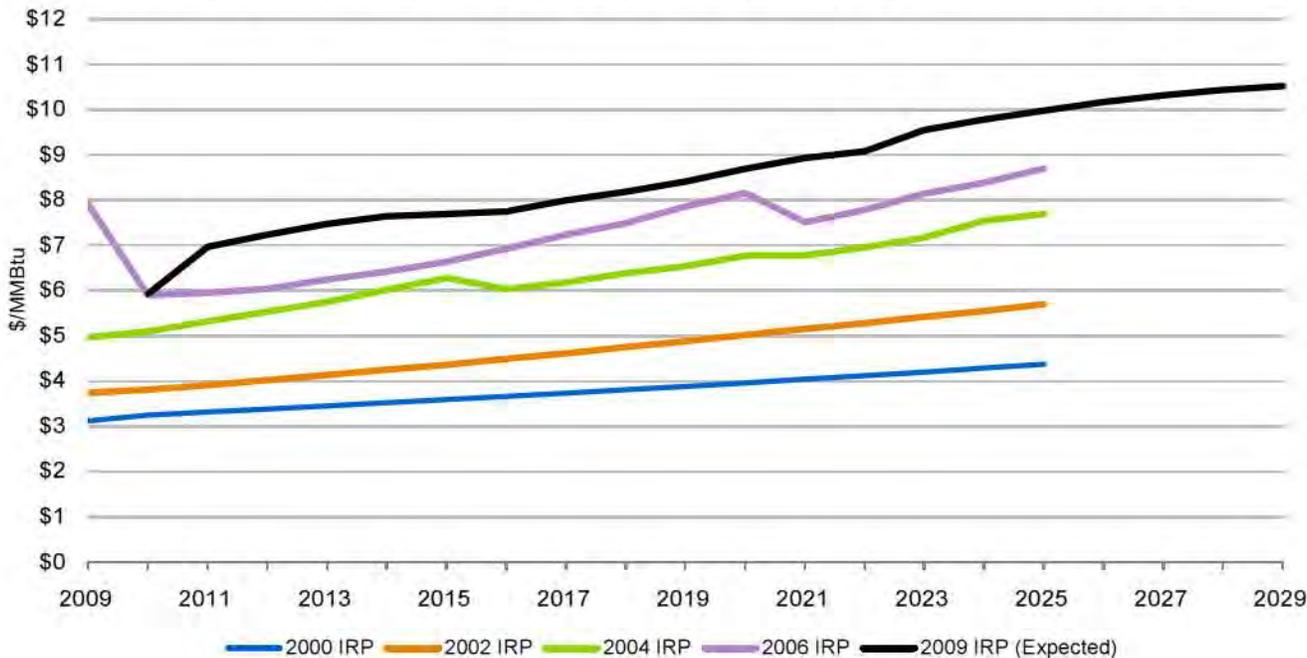
**Natural Gas and Coal Price Forecast**



### Natural Gas Price Forecast—Comparison to Other Forecasts



### Natural Gas Price Forecast—Comparison to Previous Integrated Resource Plans



## SUPPLY-SIDE RESOURCE DATA

### Key Financial and Forecast Assumptions

Financing Cap Structure and Cost			
<b>Composition</b>			
Debt.....		50.54%	
Preferred.....		0.00%	
Common.....		49.46%	
Total.....		100.00%	
<b>Cost</b>			
Debt.....		5.65%	
Preferred.....		0.00%	
Common.....		10.60%	
Average Weighted Cost.....		8.10%	
Financial Assumptions and Factors			
Plant Operating (Book) Life.....	30 Years		
Discount Rate (aka WACC).....	6.98%		
Composite Tax Rate.....	39.10%		
Deferred Rate.....	35.00%		
General O&M Esc Rate.....	3.00%		
Emission Adder Esc Rate.....	2.50%		
Annual Prop Tax Rate (% of Invest).....	0.29%		
Prop Tax Esc Rate.....	3.00%		
Annual Insurance Prens (% of Invest).....	0.31%		
Insurance Esc Rate.....	2.00%		
AFUDC Rate (Annual).....	7.00%		
Prod Tax Credits Esc Rate.....	3.00%		
Tax Credits (2009 \$)			
Wind, Geothermal and Closed Loop Biomass.....	\$21/MWh first 10 years of operation		
Open Loop Biomass, Hydro and In-Stream Generation.....	\$10/ MWh first 10 years of operation		
Solar Investment Tax Credit (ITC).....	30% of depreciable investment		
Emissions Limits (pounds per MWh by technology)			
(adders are brought into the analysis beginning in 2012)			
	GHG	Nox	Mercury
Small Aeroderavative SCCT.....	1,190	0.12000	0.00000
Large Aeroderavative SCCT.....	1,071	0.10800	0.00000
Large Frame SCCT.....	1,119	0.11280	0.00000
Reciprocating Engines.....	1,071	0.10800	0.00000
CCCT 1x1.....	809	0.08160	0.00000
CCCT 2x1.....	809	0.08160	0.00000
Combined Heat and Power (CHP).....	809	0.08160	0.00000
Distributed Generation—Gas Fired.....	1,071	0.10800	0.00000
Pulverized Coal.....	1,886	0.44160	0.00002
IGCC.....	1,797	0.21036	0.00002
IGCC w/ Carbon Sequestration.....	309	0.42560	0.00002
Biomass—Landfill Gas.....	0	1.70000	0.00000
Biomass—Aneorobic Digesters.....	0	1.70000	0.00000
Emission Adder Rates			
(adders are brought into the analysis beginning in 2012)			
GHG.....	\$40 per ton (2009 \$)		
NOX.....	\$2,600 per ton during May–September		
Mercury.....	\$1,443/oz in years 2012–2017; \$1,731/oz in year 2018 and beyond		

**Fuel Forecast Base Case (Nominal, \$ per MMBtu)**

<b>Year</b>	<b>Gas</b>	<b>Generic</b>	<b>Nuclear</b>
2009	3.96	1.83	0.65
2010	5.93	2.23	0.65
2011	6.97	2.26	0.66
2012	7.23	2.30	0.66
2013	7.47	2.34	0.67
2014	7.64	2.43	0.67
2015	7.69	2.49	0.67
2016	7.74	2.46	0.68
2017	7.99	2.50	0.68
2018	8.19	2.55	0.69
2019	8.40	2.63	0.69
2020	8.69	2.72	0.69
2021	8.93	2.81	0.70
2022	9.08	2.90	0.70
2023	9.55	3.00	0.71
2024	9.78	3.10	0.71
2025	9.98	3.20	0.72
2026	10.17	3.30	0.72
2027	10.31	3.41	0.72
2028	10.43	3.53	0.73
2029	10.52	3.65	0.73
2030	10.55	3.77	0.74
2031	10.73	3.69	0.74
2032	10.84	3.77	0.75
2033	10.96	3.85	0.75
2034	11.07	3.93	0.75
2035	11.19	4.01	0.76
2036	11.30	4.09	0.76
2037	11.42	4.16	0.77
2038	11.53	4.24	0.77

**Cost Inputs and Operating Assumptions Resource Cost Analysis**  
(All Costs in 2009 Dollars)

	Plant Capacity (MW)	Overnight Plant Capital \$/kW <sup>1,3</sup>	Overnight Transmission Capital \$/kW	Overnight Total Capital \$/kW	Total Investment \$/kW <sup>2</sup>	Fixed O&M \$/kW <sup>3</sup>	Variable O&M \$/MWh	Emission Adders \$/MWh	Heat Rate (btus/kWh)
Distributed Generation- Gas Fired	15	\$0	\$163	\$163	\$0	\$3	\$1	\$26	12,000
Simple Cycle CT - Industrial Frame	170	\$470	\$29	\$499	\$529	\$4	\$2	\$27	10,000
Boardman to Hemingway	225	\$0	\$700	\$700	\$0	\$0	\$0	\$0	0
Simple Cycle CT - Large Aeroderivative	100	\$700	\$63	\$763	\$806	\$3	\$3	\$24	8,400
Reciprocating Engines	25	\$673	\$100	\$773	\$815	\$10	\$7	\$24	9,700
Simple Cycle CT - Small Aeroderivative	47	\$850	\$77	\$927	\$982	\$3	\$3	\$27	9,200
Gateway West	275	\$0	\$1,000	\$1,000	\$0	\$0	\$0	\$0	0
CCCT (2x1) F Class	540	\$1,050	\$99	\$1,149	\$0	\$5	\$1	\$18	6,800
CHP/Co-Generation	47	\$1,200	\$133	\$1,333	\$0	\$0	\$3	\$18	9,200
CCCT (1x1) F Class	270	\$1,200	\$93	\$1,293	\$0	\$7	\$1	\$18	6,800
Wind	100	\$1,275	\$503	\$1,778	\$1,887	\$35	\$1	\$0	0
Shoshone Falls Upgrade	64	\$1,779	\$200	\$1,979	\$2,195	\$2	\$0	\$0	0
In-Stream Generation	1	\$2,839	\$442	\$3,281	\$3,398	\$112	\$0	\$0	0
Solar - Parabolic Dish Engine	100	\$3,400	\$10	\$3,410	\$3,739	\$56	\$0	\$0	0
Solar - Water Steam Power Tower	100	\$3,400	\$10	\$3,410	\$3,772	\$56	\$0	\$0	0
Solar - Parabolic Trough	100	\$4,200	\$10	\$4,210	\$4,856	\$55	\$0	\$0	0
Biomass - Digesters	1	\$4,100	\$348	\$4,448	\$0	\$54	\$16	\$0	12,407
Biomass - Landfill Gas	2	\$4,100	\$348	\$4,448	\$0	\$22	\$16	\$0	11,556
Conventional Scrubbed Coal	750	\$3,500	\$675	\$4,175	\$4,947	\$23	\$5	\$43	9,200
Low Drop/Small Hydro New	10	\$4,312	\$400	\$4,712	\$5,436	\$14	\$3	\$0	0
Solar - Molten Salt Power Tower, 6.9 Hours Energy Storage	100	\$4,900	\$10	\$4,910	\$5,602	\$55	\$0	\$0	0
IGCC	600	\$4,025	\$675	\$4,700	\$5,735	\$32	\$3	\$41	8,765
Solar - Flat Plate PV	1	\$6,300	\$0	\$6,300	\$6,411	\$25	\$0	\$0	0
IGCC with Carbon Sequestration	600	\$4,900	\$675	\$5,575	\$6,803	\$38	\$5	\$8	10,500
Solar - Parabolic Trough, 6 hours Energy Storage	100	\$6,300	\$10	\$6,310	\$7,279	\$72	\$0	\$0	0
Solar - Concentrating PV	1	\$7,500	\$0	\$7,500	\$7,768	\$50	\$0	\$0	0
Advanced Nuclear	1,100	\$5,000	\$538	\$5,538	\$0	\$146	\$5	\$0	10,400
Geothermal	26	\$7,200	\$331	\$7,531	\$0	\$76	\$5	\$0	0

<sup>1</sup> Plant costs include engineering, development costs, generating and ancillary equipment purchase and installation costs, as well as balance of plant/construction.

<sup>2</sup> Total investment includes capital costs and AFUDC.

<sup>3</sup> Fixed O&M excludes property taxes and insurance (separately calculated within the levelized resource cost analysis)

**Levelized Resource Cost Tables**  
**30-Year Levelized Cost of Production**  
**(at stated capacity factors)**

	Cost of Capital	Non-Fuel O&M <sup>1</sup>	Fuel	Wholesale Energy	Emission Adders	Total Cost per MWh	Capacity Factor
Shoshone Falls Upgrade - Hydro (64 MW)	\$62	\$0	\$0	\$0	\$0	\$62	36%
Wind (100 MW)	\$60	\$20	\$0	\$0	\$0	\$80	32%
Biomass - Landfill Gas (2 MW)	\$62	\$21	\$0	\$0	\$0	\$83	80%
Combined Cycle CT 2x1 (540 MW)	\$22	\$5	\$58	\$0	\$18	\$103	65%
Geothermal (26 MW)	\$92	\$15	\$0	\$0	\$0	\$107	92%
Combined Cycle CT 1x1 (270 MW)	\$25	\$6	\$58	\$0	\$18	\$107	65%
Transmission @ 65% - Boardman to Hemingway (225 MW)	\$13	\$1	\$0	\$113	\$0	\$126	65%
Combined Heat and Power (47 MW)	\$18	\$6	\$86	\$0	\$18	\$128	90%
Transmission @ 65% - Gateway West (275 MW)	\$18	\$2	\$0	\$113	\$0	\$132	65%
Biomass - Digesters (1 MW)	\$66	\$69	\$0	\$0	\$0	\$136	75%
Solar - Salt Power Tower (100 MW)	\$89	\$50	\$0	\$0	\$0	\$139	28%
Transmission @ 25.7% - Boardman to Hemingway (225 MW)	\$32	\$3	\$0	\$113	\$0	\$147	26%
Pulverized Coal (750 MW)	\$68	\$16	\$26	\$0	\$43	\$153	88%
Low Drop/Small Hydro New (10 MW)	\$140	\$14	\$0	\$0	\$0	\$154	45%
IGCC with Carbon Sequestration (600 MW)	\$96	\$21	\$30	\$0	\$8	\$155	85%
Solar - Parabolic Dish Engine (100 MW)	\$89	\$67	\$0	\$0	\$0	\$156	19%
Transmission @ 25.7% - Gateway West (275 MW)	\$45	\$4	\$0	\$113	\$0	\$162	26%
IGCC (600 MW)	\$81	\$17	\$25	\$0	\$41	\$163	85%
Advanced Nuclear (1,100 MW)	\$114	\$44	\$7	\$0	\$0	\$165	85%
Solar - Parabolic Trough, with Energy Storage (100 MW)	\$115	\$66	\$0	\$0	\$0	\$181	28%
Solar - Parabolic Trough No Storage (100 MW)	\$117	\$73	\$0	\$0	\$0	\$191	18%
Solar - Water Steam Power Tower (100 MW)	\$113	\$85	\$0	\$0	\$0	\$198	15%
Simple Cycle CT - Large Aero (100 MW)	\$93	\$17	\$71	\$0	\$24	\$205	10%
Distributed Generation - Gas Fired (15 MW)	\$68	\$23	\$102	\$0	\$26	\$218	3%
Solar - Concentrating PV (1 MW)	\$159	\$70	\$0	\$0	\$0	\$229	22%
Solar - Flat Plate PV (1 MW)	\$174	\$60	\$0	\$0	\$0	\$234	17%
Simple Cycle CT - Industrial Frame (170 MW)	\$102	\$21	\$85	\$0	\$27	\$234	6%
In-Stream Generation (1 MW)	\$157	\$90	\$0	\$0	\$0	\$247	22%
Transmission @ 6% - Boardman to Hemingway (225 MW)	\$135	\$12	\$0	\$113	\$0	\$260	6%
Simple Cycle CT - Small Aero (47 MW)	\$142	\$22	\$78	\$0	\$27	\$268	8%
Transmission @ 6% - Gateway West (275 MW)	\$193	\$17	\$0	\$113	\$0	\$323	8%
Reciprocating Engines (25 MW)	\$157	\$49	\$109	\$0	\$24	\$339	6%

<sup>1</sup> Non Fuel O&M includes fixed and variable costs, property taxes, and production tax credits.

## 30 Year Levelized Capacity (Fixed) Cost per kW

	Cost of Capital	Non-Fuel O&M	Fuel	Emission Adders	Total Cost per kW
Distributed Generation - Gas Fired (15 MW)	\$1	\$0	\$0	\$0	\$2
Simple Cycle CT - Industrial Frame (170 MW)	\$4	\$1	\$0	\$0	\$5
Transmission - Boardman to Hemingway (275 MW)	\$6	\$1	\$0	\$0	\$6
Simple Cycle CT - Large Aero (100 MW)	\$7	\$1	\$0	\$0	\$8
Reciprocating Engines (25 MW)	\$7	\$2	\$0	\$0	\$9
Transmission - Gateway West (275 MW)	\$8	\$1	\$0	\$0	\$9
Simple Cycle CT - Small Aero (47 MW)	\$8	\$1	\$0	\$0	\$9
Combined Cycle CT 2x1 (540 MW)	\$11	\$1	\$0	\$0	\$12
Combined Heat and Power (47 MW)	\$12	\$1	\$0	\$0	\$13
Combined Cycle CT 1x1 (270 MW)	\$12	\$2	\$0	\$0	\$14
Shoshone Falls Upgrade - Hydro (64 MW)	\$16	\$2	\$0	\$0	\$18
Wind (100 MW)	\$14	\$5	\$0	\$0	\$19
Solar - Parabolic Dish Engine (100 MW)	\$12	\$9	\$0	\$0	\$21
Solar - Water Steam Power Tower (100 MW)	\$12	\$9	\$0	\$0	\$21
Solar - Parabolic Trough No Storage (100 MW)	\$16	\$10	\$0	\$0	\$25
Solar - Flat Plate PV (1 MW)	\$21	\$7	\$0	\$0	\$28
Solar - Salt Power Tower (100 MW)	\$18	\$10	\$0	\$0	\$28
Solar - Concentrating PV (1 MW)	\$25	\$11	\$0	\$0	\$36
Solar - Parabolic Trough, with Energy Storage (100 MW)	\$24	\$13	\$0	\$0	\$37
In-Stream Generation (1 MW)	\$25	\$16	\$0	\$0	\$41
Biomass - Landfill Gas (2 MW)	\$36	\$6	\$0	\$0	\$42
Biomass - Digesters (1 MW)	\$36	\$10	\$0	\$0	\$46
Pulverized Coal (750 MW)	\$43	\$6	\$0	\$0	\$49
Low Drop/Small Hydro New (10 MW)	\$46	\$5	\$0	\$0	\$51
IGCC (600 MW)	\$50	\$8	\$0	\$0	\$58
IGCC with Carbon Sequestration (600 MW)	\$60	\$9	\$0	\$0	\$69
Geothermal (26 MW)	\$62	\$15	\$0	\$0	\$76
Advanced Nuclear (1,100 MW)	\$71	\$23	\$0	\$0	\$93

## The Comprehensive Aquifer Management Plan (CAMP) Process and Potential to Impact Power Generation

### The CAMP Process

The Eastern Snake Plain Aquifer (ESPA) serves nearly one million acres of ground water irrigated land, cities, industries, and thousands of domestic wells. Above American Falls, the ESPA supports spring discharge that provides natural flow for irrigated lands in the Magic Valley. The ESPA has experienced serious declines that began in the late 1970s and appear to be ongoing. Those declines have impacted spring discharge to the Snake River, including springs that provide irrigation water and flows of cold water that support fish hatcheries from Twin Falls to Hagerman. Flow from the ESPA also provides a significant portion of the flow in the Snake River at King Hill and below.

Declining spring discharge has created numerous water shortages resulting in water calls pitting senior spring and surface water users against junior ground water appropriators. Many of those water calls are still pending or have been only partially resolved through orders from the director of the Idaho Department of Water Resources (IDWR). Continued declines in spring flows are likely to exacerbate these ongoing conflicts over water use on the Eastern Snake River Plain (ESRP).

The 2007 Idaho Legislature tasked the Idaho Water Resource Board (IWRB) with developing an ESPA Comprehensive Aquifer Management Plan (CAMP). The charge of the legislature was to “establish public policy as a settlement framework for future management of the ESPA.” To meet legislative goals, the IWRB established a 15-member committee representing various water user groups and other parties interested in the management of the ESPA. The goal of the committee was to develop an aquifer management plan to “sustain the economic viability and social and environmental health of the Eastern Snake Plain by adaptively managing a balance between water use and supplies.”

**Table CAMP-1. Phase I Measures Included in the CAMP**

Measure	Target (Acft)
Ground Water to Surface Water Conversions .....	100,000
Managed Aquifer Recharge .....	100,000
Demand Reduction	
Surface Water Conservation .....	50,000
Crop Mix Modification .....	5,000
Rotating Fallowing, Dry-Year Lease, CREP .....	40,000
Weather Modification .....	50,000

The committee met monthly starting in May 2007 continuing through September 2008. The CAMP committee first established a goal of producing an annual 600,000 acre-foot adjustment in the water budget of the ESRP. This water balance adjustment was adopted as the long-term hydrologic target; however, committee members recognized this adjustment would be achieved only after many years of implementation. The committee adopted an interim plan called Phase I that targets an annual water budget change of 200,000–300,000 acre-feet/year. The committee’s goal is to have Phase I fully implemented in 10 years. Table CAMP-1 shows the measures anticipated under Phase I. The Phase I plan includes the implementation of a variety of measures to change the overall water budget of the ESRP.

CAMP was submitted to the 2009 Idaho Legislature for approval. Upon legislative approval of the plan, the IWRB began a process of selecting an implementation committee. The charge of that committee will be to “assist the Board in the prioritization, development, implementation, and monitoring and evaluation of management actions.” The implementation committee will also develop a mechanism to fund measures implemented under CAMP. The successful implementation of any CAMP-recommended measure is dependent upon securing a long-term funding source. As such, the specific practices, their extent or location is unknown at this time. Additionally, some practices are likely to change as the feasibility and impact of specific practices is evaluated over the next five years. The legislative approval of CAMP was only the first step in implementing management practices on the ESPA.

Idaho Power recognizes the potential for declining spring flow below Milner Dam to impact generation capabilities. Idaho Power also recognizes the potential for management practices recommended and implemented through CAMP to impact generation capabilities. Those impacts could be either positive or negative. As such, Idaho Power has been an active member of the CAMP committee. Idaho Power was represented at every CAMP committee meeting, and the company representatives participated in several sub-committees. Idaho Power also developed the appropriate modeling techniques to assess the potential impacts of CAMP on river flows and spring discharge. The results of the modeling was provided to the CAMP committee and used during the decision-making process. Idaho Power has also suggested management alternatives and has agreed to provide technical and material support for a pilot weather modification program in the upper Snake River basin.

CAMP committee members recognize that the failure of proposed management practices to increase aquifer levels or improve spring discharge to the Snake River could result in continued legal action against junior ground water appropriators. Implementation of CAMP was not to supplant the need for litigation but to manage the aquifer such that water calls would be lessened. Ground water appropriators could be subjected to increased mitigation requirements or potential curtailment if CAMP fails to produce desired results.

## Potential Impact of CAMP Implementation on Idaho Power

The implementation of CAMP practices impact hydropower generation in three different ways.

- 1) Managed recharge can increase spring discharge below Milner Dam, but those increases can occur only if water is diverted above Milner Dam and directed onto the ESRP and recharged to the aquifer. Conversions of ground water supplied irrigated land to surface supplied can also improve spring flow, but would require diversions of water from the Snake River above Milner Dam as well. Diversion for managed recharge and conversion projects have the potential to reduce the volume of water passing through numerous Idaho Power projects. Those diversions may have a negative impact to hydropower production on those facilities located between Milner Dam and King Hill. Additionally, while most of the water diverted for these projects comes back to the river as spring discharge, up to 10% of the water remains in the aquifer as long-term storage. These practices essentially shift water from one compartment, surface water, to another compartment, ground water. The net effect on the overall water budget is zero, but the diversions from the Snake River can have negative impacts to hydropower production.
- 2) Weather modification and practices that reduce consumptive use of ground water can increase water flowing through those generation facilities located on the Snake River above King Hill. These measures actually change the water budget by reducing consumptive demand or by increasing water supply in the basin. They can increase spring flow or tributary flow into the

Snake River, but, unlike managed recharge or conversion projects, they require no diversions from the Snake River. These projects increase flows in the Snake River and could potentially benefit power generation.

- 3) Practices described in 1) and 2) are likely to be implemented in some combination. The relative extent of those practices will ultimately determine whether the impact is positive or negative for hydropower production. Diversions and increases in spring discharge may eventually balance, but the first five to ten years of implementation may produce a net negative effect on hydropower production.

The actual impact to hydropower production resulting from the implementation of the CAMP plan is uncertain. The availability of funding could drastically alter the implementation of the CAMP Phase I plan and long-standing water calls may eventually trump any plan proffered. Changing economic conditions may also alter decisions made by agriculture producers and their participation in current mitigation plans and other programs, such as the Conservation Reserve Enhancement Program (CREP). In evaluating the potential impacts of CAMP on hydropower production, the Phase I targets provide a basis for modeling and evaluation.

## Modeled CAMP Scenario

Idaho Power developed modeling capabilities to help determine the potential impacts of CAMP on spring discharge and flows in the Snake River. Idaho Power modeled several different scenarios for the CAMP committee. The modeling incorporates the Enhanced Snake Plain Aquifer Model (ESPAM) and the Snake River Planning Modeling (SRPM). The modeling also incorporates information on canal capacities and sets limits for managed recharge, system conversions, and demand reduction activities. The modeling also includes estimates on increased water from weather-modification activities.

The scenario modeled for the IRP was the Phase I implementation plan proposed in CAMP. The parameters entered into the model were done to try and match the goals of the Phase I plan. Table CAMP-2 compares the results of the Phase I CAMP with the modeled results. The modeled scenario provides close approximation of the planned Phase I and allows for the examination of the impacts of CAMP on spring discharge and flows in the Snake River.

**Table CAMP-2. CAMP Phase I Goals and Results of Modeling**

Action	CAMP Goal (Average thousand acre-feet/year)	Modeled (Average thousand acre-feet/year)
Ground to Surface Water Conversions	100	81
Managed Recharge	100	140**
Demand Reduction	95*	45
Weather Modification	50	50

\*Some demand reduction includes the purchase of subordination agreements from spring owners that cannot be modeled, but would have no impact on spring flows or Snake River Flows.

\*\*This recharge also includes approximately 20 KAF/yr recharge on the Wood River system.

The SRPM uses a variety of data inputs to determine water availability for irrigation diversions as well as providing information on reservoir storage and river flows. The model allows for present conditioning of historic data. In other words, it applies today's level of development (irrigation diversions and storage), reach gains, and diversions to historic water availability. The model is currently calibrated to

run from 1928 through 2005. This mode of operation allows for the comparison of a base case scenario to a variety of management scenarios. This provides a perspective on the degree to which different management scenarios may impact reservoir storage and river flows.

**Table CAMP-3. Average Difference Between the CAMP Scenario and the Base Case Scenario for Flow at King Hill**

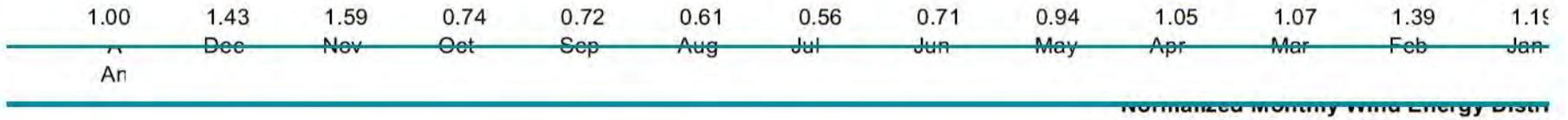
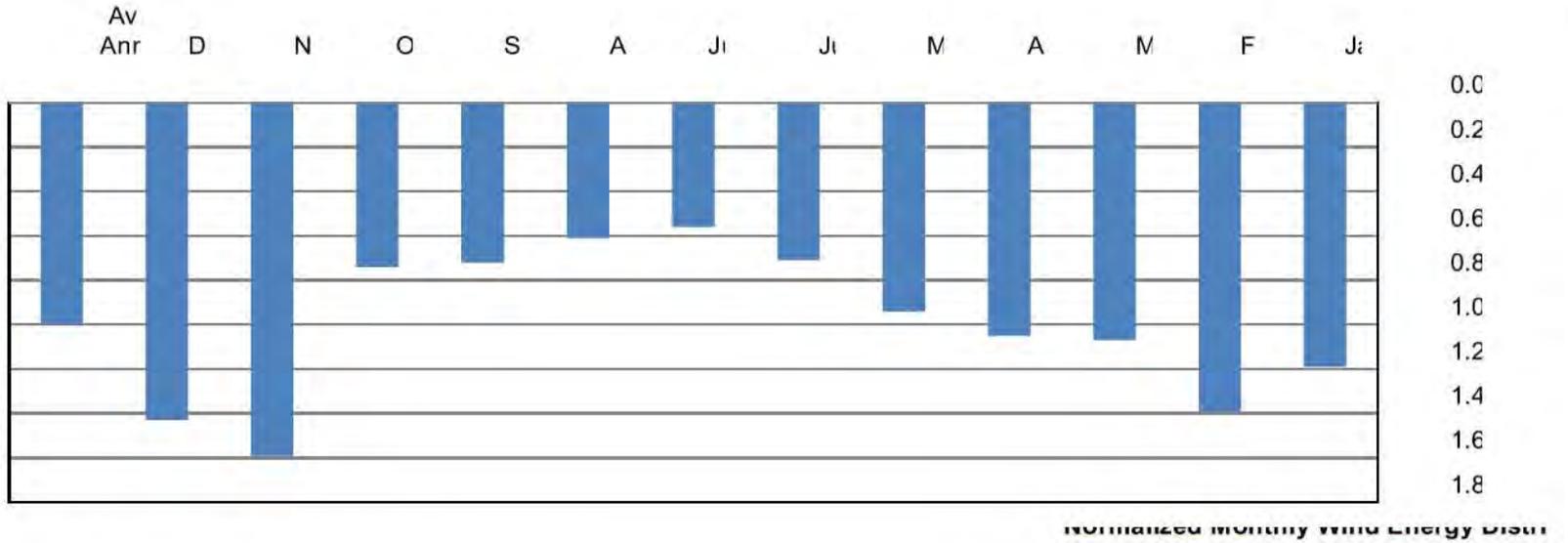
<b>July (acre-feet)</b>	<b>December (acre-feet)</b>	<b>Yearly (acre-feet)</b>
7,700	10,900	66,600

A comparison was made for the months of July and December and total yearly flows for the base case scenario and the CAMP scenario. July and December were selected because they are critical months for power generation. The comparison of modeled data was for the King Hill gage on the Snake River (Table CAMP-3). The average flows for July increased 7,670 acre-feet/month, and December flows increased 10,880 acre-feet/month. The yearly average flows increased by 66,580 acre-feet/year, which is about 1% of the yearly average flow at the King Hill gage. These small increases reflect the nature of changes in the water budget for the upper Snake Basin as proposed through CAMP. The CAMP Phase I plan contains only 95,000 acft in new or additional water to the system. CAMP may increase spring discharge tributary to the Snake River, but those increases are dependent upon large diversion from the Snake River for managed recharge or system conversions. The overall increase in Snake River flow is dependent upon a reduction in consumptive use of water or increases related to water modification activities.

**Brownlee Reservoir Inflow Record (Million Acre-Feet)**  
**Record Used for 2009 IRP Modeling of Idaho Power Hydropower System**

<b>CY</b>	<b>Brownlee April–July Inflow Volume (MAF)</b>	<b>Brownlee Annual Inflow Volume (MAF)</b>	<b>CY</b>	<b>Brownlee April–July Inflow Volume (MAF)</b>	<b>Brownlee Annual Inflow Volume (MAF)</b>
1928	6.8	14.8	1967	4.9	11.3
1929	3.5	9.3	1968	3.5	10.8
1930	2.8	8.3	1969	6.9	15.4
1931	2.3	7.2	1970	6.3	14.9
1932	4.8	10.2	1971	10.4	22.9
1933	4.3	9.4	1972	7.8	20.2
1934	2.4	7.5	1973	4.0	11.3
1935	3.0	7.9	1974	9.7	20.1
1936	5.1	10.4	1975	8.2	17.6
1937	3.0	8.5	1976	7.3	16.3
1938	7.1	13.8	1977	2.2	7.8
1939	3.9	10.0	1978	5.2	11.9
1940	4.3	10.8	1979	4.0	10.8
1941	3.8	10.2	1980	6.1	13.2
1942	5.0	11.2	1981	4.4	11.5
1943	9.3	19.0	1982	9.4	21.2
1944	3.4	9.6	1983	10.0	23.6
1945	4.9	11.7	1984	11.4	24.4
1946	6.9	15.5	1985	5.5	13.5
1947	5.3	12.5	1986	8.4	20.6
1948	5.9	12.6	1987	3.0	9.2
1949	5.4	12.5	1988	2.7	7.9
1950	6.6	14.8	1989	4.4	10.7
1951	6.6	16.2	1990	3.1	8.6
1952	10.4	19.3	1991	2.9	8.2
1953	6.1	13.7	1992	2.0	6.8
1954	5.6	12.6	1993	6.3	13.0
1955	3.5	9.9	1994	2.8	8.5
1956	7.9	17.6	1995	6.9	14.2
1957	7.9	16.2	1996	8.3	19.1
1958	7.5	15.2	1997	10.1	24.0
1959	3.9	10.4	1998	8.6	17.6
1960	4.3	10.8	1999	7.9	17.8
1961	3.2	8.7	2000	4.6	12.1
1962	4.9	11.1	2001	2.6	7.8
1963	4.7	11.6	2002	3.5	8.8
1964	5.8	13.1	2003	3.7	9.2
1965	8.5	20.0	2004	3.2	8.8
1966	3.6	9.9	2005	3.6	8.8

Note: Based on Idaho Department of Water Resources computed Snake River Basin record for 1928–2005.



30  
30%  
100

Monthly Wind Distribution Plot

## DEMAND-SIDE RESOURCE DATA

### Cost-Effectiveness

Most of Idaho Power's energy efficiency programs are preliminarily identified through the integrated resource planning process. A change for the *2009 Integrated Resource Plan* IRP is that a majority of the anticipated new energy efficiency future commitments come through additional measures added into existing programs as opposed to new program offerings.

Idaho Power considers cost-effectiveness to be the primary screening tool prior to demand-side management (DSM) program implementation. Idaho Power primarily uses the Total Resource Cost (TRC) test and the Utility Cost (UC) test to develop benefit cost (B/C) ratios to determine the cost-effectiveness of DSM programs.

In the IRP process, specific programs or potential energy savings are screened by sector to determine if the levelized cost of the potential programs is less than supply-side resource alternatives. If the DSM programs are shown to be less costly than supply-side resources as measured by the levelized cost, the potential program is included in the resource plan. Generally, the hourly shaped energy savings are used to compare DSM programs with other supply-side and transmission alternatives.

Prior to the actual implementation of energy efficiency or demand response programs, Idaho Power creates cost-effectiveness models to assess whether a specific potential program design will be cost-effective from the perspective of Idaho Power and its customers. Incorporated into the cost-effectiveness models are inputs from various sources in order to use the most current and reliable information available. Idaho Power uses a cost-effectiveness model to perform sensitivity analyses in order to determine the appropriate program design. The remaining inputs used in the cost-effectiveness models are obtained from the IRP process.

When possible, Idaho Power uses actual data and experiences from other companies in the region, or throughout the country, to help identify specific program parameters. The regional program review is typically accomplished through discussions with other utilities' program managers and research staff.

Idaho Power also uses electric industry research organizations, such as E Source, Edison Electrical Institute (EEI), Consortium for Energy Efficiency (CEE), American Council for an Energy Efficient Economy (ACEEE), Advanced Load Control Alliance (ALCA), Association of Energy Service Professionals (AESP), Energy Insights, and others, to identify similar programs and expected results. For other assumptions, including estimated costs, savings, and net-to-gross ratio estimates, Idaho Power relies on sources, such as the Northwest Power and Conservation Council (NPCC), the Regional Technical Forum (RTF), Northwest Energy Efficiency Alliance (NEEA), E Source, the Database for Energy Efficiency Resources (DEER), the Energy Trust of Oregon (ETO), Bonneville Power Administration (BPA), third-party consultants, and other regional utilities.

The financial assumptions used in the analysis are consistent with the 2009 IRP, including the discount rate and inflation rate. The IRP is also the source of the DSM alternative costs, which is the value of energy savings and demand reduction resulting from the DSM programs. The DSM alternative costs vary by season and time-of-day. The DSM alternative energy costs are based on either projected fuel costs of a natural gas peaking unit or forward market prices as determined by the AURORA<sup>®</sup> Electric Market Model. The avoided capital cost is based on a 170 MW natural gas-fired, simple-cycle combustion turbine.

Idaho Power relies on the Electric Power Research Institute End Use Technical Assessment Guide (TAG) and the California Standard Practice Manual for the cost-effectiveness methodology. As defined in the TAG and California Standard Practice Manual, the TRC and UC tests are most similar to supply-side tests and provide a useful basis to compare demand-side and supply-side resources.

Idaho Power determines cost-effectiveness on a program basis and on a measure-by-measure basis where applicable. To be consistent with the IRP, demand response program B/C ratios for the residential A/C Cool Credit, Irrigation Peak Rewards, and the commercial and industrial FlexPeak program are calculated over a 20-year period. In order for a program to be considered cost-effective, the program must have B/C ratios greater than one for both the TRC and UC tests.

Idaho Power may choose to launch a pilot or limited-scale program to evaluate estimates or assumptions in the cost-effectiveness model. Pilot programs are designed to measure actual program experiences, including program expenses, savings, and participation. Following implementation of a program, the cost-effectiveness models are reviewed as data from actual program activity becomes available. The program design may be reexamined after program implementation.

### Alternate Costs

The prices of avoided energy throughout the 20-year planning period were simulated using the Preferred Portfolio module within the AuroraAxmp model. The Preferred Portfolio module takes into consideration the energy capacity and resource costs of the current preferred mix of IRP resources along with regional transmission resources in the Western Electricity Coordinating Council (WECC) region to project forward electric market prices. The forward prices are placed into five homogenous pricing categories that follow the pattern of heavy and light load pricing throughout each year of the planning period. The resulting categories are:

- *Summer On-Peak (SONP)*—Average of Idaho Power variable energy and operating costs of a 170 MW simple-cycle combustion turbine, which is the marginal resource for peak hour load deficits during summertime heavy load hours
- *Summer Mid-Peak (SMP)*—Average of heavy load prices from June through August
- *Summer Off-Peak (SOFP)*—Average of light load prices from June through August
- *Non-Summer Mid-Peak (NSMP)*—Average of heavy load prices in January through May and September through December
- *Non-Summer Off-Peak (NSOFP)*—Average of light load prices in January through May and September through December

The SONP is treated differently than the other four pricing periods. During the SONP, additional purchases from the regional power market are not an option due to currently existing transmission constraints. The marginal resource Idaho Power is trying to avoid with DSM efforts for SONP hours is the construction of simple-cycle combustion turbine. The estimated levelized capacity cost of building a new simple-cycle combustion turbine is approximately \$63/kW over a 30-year expected plant life. For demand response or direct load control DSM programs operating during the summer peak, the \$63/kW becomes the cost threshold for program cost-effectiveness.

The avoided capacity value is spread across the annual SONP hours to value the energy efficiency savings occurring during the hours. The total SONP vary between 512 to 528 hours depending on the calendar. Table DSM-1 lists the financial assumptions used for the cost effectiveness analysis and new program screening.

Table DSM-2 shows the results of averaging forward energy prices over the 20-year planning period that were used to screen new energy efficiency and demand response programs for cost-effectiveness. The cost-effectiveness analysis for measures that have a life longer than 20 years, which is typical for weatherization and building shell measures, prices are escalated at three percent.

Tables DSM-3 and DSM-4 show the distribution of the three summer and two non-summer pricing periods across the hours and days of the week and for holidays.

Tables DSM-5 through DSM-7 show the forecast impact of energy efficiency by customer class for existing programs, new energy efficiency commitments, and the total combined impact.

Table DSM-8 shows the annual forecast of utility costs or the costs to administer the new programs and measures to meet the forecast new energy efficiency amounts.

Table DSM-9 shows the 20-year flow of resource costs that combines the program participant costs with the costs to administer the program.

Table DSM-10 outlines the 20-year flow of avoided generation and the benefits attributed to energy efficiency programs.

Table DSM-11 summarizes the cost-effectiveness analysis for new programs and measures through the 20-year IRP planning period.

Table DSM-12 shows the annual forecast impact from all demand response programs.

Tables DSM-13 through DSM-15 show the 20-year flow of utility costs, total resource costs, and value of avoided generation for demand response programs, similar to those presented for new energy efficiency programs.

Table DSM-16 summarizes the cost-effectiveness for demand response programs and the forecast impact through the IRP planning horizon.

**Table DSM-1. IRP Financials**

<b>DSM Analysis Assumptions</b>	
<b>Avoided Capacity Costs</b>	
Simple-Cycle Combined Turbine .....	\$63/kW
<b>Financial Assumptions</b>	
Weighted Average Cost of Capital (2008 Year Ending After Tax) .....	6.98%
Financial Escalation Factor .....	3.00%
<b>Transmission Losses</b>	
Non-summer Secondary Losses .....	10.90%
Summer Peak Loss .....	13.00%

**Table DSM-2. DSM Alternate Costs by Pricing Period**

<b>Year</b>	<b>Summer On-Peak (SONP)</b>	<b>Summer Mid-Peak (SMP)</b>	<b>Summer Off-Peak (SOFP)</b>	<b>Non-Summer Mid-Peak (NSMP)</b>	<b>Non-Summer Off-Peak (NSOFP)</b>
2010	\$61.23	\$45.22	\$33.70	\$46.50	\$34.94
2011	\$71.70	\$53.51	\$40.04	\$55.00	\$42.05
2012	\$98.56	\$83.99	\$73.25	\$84.85	\$72.70
2013	\$103.52	\$85.83	\$76.66	\$84.95	\$73.38
2014	\$105.93	\$88.03	\$78.54	\$87.74	\$75.23
2015	\$107.21	\$90.65	\$80.59	\$91.35	\$77.69
2016	\$108.48	\$93.77	\$82.08	\$93.03	\$79.60
2017	\$111.77	\$95.65	\$84.94	\$95.19	\$82.20
2018	\$114.49	\$97.48	\$86.37	\$97.66	\$84.64
2019	\$117.51	\$100.97	\$88.40	\$99.54	\$86.87
2020	\$121.19	\$102.07	\$89.30	\$101.54	\$89.17
2021	\$124.46	\$104.48	\$91.76	\$104.64	\$91.87
2022	\$126.83	\$108.43	\$95.56	\$109.05	\$95.67
2023	\$132.46	\$111.36	\$98.73	\$111.23	\$98.70
2024	\$135.69	\$113.45	\$100.73	\$114.15	\$101.27
2025	\$138.67	\$117.06	\$104.45	\$117.50	\$104.31
2026	\$141.54	\$120.25	\$107.38	\$121.00	\$107.28
2027	\$144.00	\$122.37	\$109.98	\$123.58	\$110.04
2028	\$146.24	\$126.81	\$113.72	\$126.09	\$112.90

<sup>1</sup>Estimated variable operations and management costs of a 170 MW capacity simple-cycle combined turbine.

**Table DSM-3. DSM Alternate Cost Summer Pricing Periods (June 1 to August 31)**

Hour	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Holiday
1	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP
2	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP
3	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP
4	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP
5	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP
6	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP
7	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP
8	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP
9	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP
10	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP
11	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP
12	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP
13	SMP	SONP	SONP	SONP	SONP	SONP	SMP	SMP
14	SMP	SONP	SONP	SONP	SONP	SONP	SMP	SMP
15	SMP	SONP	SONP	SONP	SONP	SONP	SMP	SMP
16	SMP	SONP	SONP	SONP	SONP	SONP	SMP	SMP
17	SMP	SONP	SONP	SONP	SONP	SONP	SMP	SMP
18	SMP	SONP	SONP	SONP	SONP	SONP	SMP	SMP
19	SMP	SONP	SONP	SONP	SONP	SONP	SMP	SMP
20	SMP	SONP	SONP	SONP	SONP	SONP	SMP	SMP
21	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP
22	SMP	SMP	SMP	SMP	SMP	SMP	SMP	SMP
23	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP
24	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP	SOFP

**Table DSM-4. DSM Alternate Costs Non-Summer Pricing Periods (September 1 to May 31)**

Hour	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Holiday
1	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP
2	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP
3	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP
4	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP
5	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP
6	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP
7	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
8	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
9	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
10	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
11	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
12	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
13	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
14	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
15	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
16	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
17	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
18	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
19	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
20	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
21	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
22	NSOFP	NSMP	NSMP	NSMP	NSMP	NSMP	NSMP	NSOFP
23	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP
24	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP	NSOFP

**Table DSM-5. DSM Existing Energy Efficiency Forecast 2010–2029 (aMW with transmission losses)**

Year	Industrial	Commercial	Irrigation	Residential	Total
2010	4.9	5.3	1.3	2.7	14.2
2011	9.7	11.0	2.5	4.5	27.8
2012	14.2	17.2	3.7	6.0	41.1
2013	18.6	23.4	4.7	7.5	54.2
2014	23.0	29.7	5.6	9.0	67.3
2015	27.5	35.9	6.2	10.3	79.8
2016	31.9	42.1	6.9	11.5	92.4
2017	36.3	48.4	7.5	12.8	105.0
2018	40.8	54.6	8.2	14.0	117.6
2019	45.2	60.8	8.9	15.3	130.1
2020	49.6	67.0	9.5	16.5	142.7
2021	54.1	73.3	10.2	17.8	155.3
2022	58.5	79.5	10.8	19.0	167.9
2023	62.9	85.7	11.5	20.3	180.4
2024	67.4	92.0	12.2	21.6	193.0
2025	71.8	98.2	12.8	22.8	205.6
2026	76.2	104.4	13.5	24.1	218.2
2027	80.6	110.6	14.1	25.3	230.7
2028	85.1	116.9	14.8	26.6	243.3
2029	89.5	123.1	15.4	27.8	255.9

**Table DSM-6. New 2009 IRP Energy Efficiency Resources 2010–2029 (aMW with transmission losses)**

Year	Residential	Commercial	Industrial	Total
2010	0.9	0.9	1.0	2.8
2011	2.1	1.8	3.1	7.0
2012	3.4	2.9	6.1	12.4
2013	4.9	4.0	9.3	18.2
2014	6.4	5.3	12.7	24.4
2015	8.0	6.6	16.2	30.8
2016	9.6	8.0	19.9	37.5
2017	11.3	9.5	23.5	44.3
2018	12.9	11.1	27.3	51.3
2019	14.6	12.8	31.0	58.4
2020	16.3	14.5	34.9	65.7
2021	17.7	16.4	38.8	72.9
2022	19.2	18.3	42.7	80.2
2023	20.7	20.2	46.7	87.6
2024	22.2	22.3	50.8	95.3
2025	23.7	24.4	54.9	103.0
2026	25.3	26.7	59.0	110.9
2027	26.9	29.0	63.2	119.0
2028	28.5	31.3	67.4	127.2
2029	28.5	31.3	67.4	127.2

**Table DSM-7. Total Energy Efficiency Forecasted Impact Existing and New 2010–2029  
(aMW with transmission losses)**

Year	Industrial	Commercial	Irrigation	Residential	Total
2010	5.5	5.6	1.1	3.3	15.5
2011	12.9	12.8	2.5	6.6	34.8
2012	20.3	20.1	3.7	9.5	53.5
2013	27.9	27.5	4.7	12.4	72.5
2014	35.7	35.0	5.6	15.4	91.7
2015	43.7	42.5	6.2	18.2	110.7
2016	51.8	50.2	6.9	21.1	129.9
2017	59.9	57.9	7.5	24.0	149.3
2018	68.0	65.7	8.2	26.9	168.9
2019	76.2	73.6	8.9	29.9	188.6
2020	84.5	81.6	9.5	32.8	208.4
2021	92.8	89.6	10.2	35.5	228.2
2022	101.2	97.7	10.8	38.2	248.0
2023	109.6	106.0	11.5	41.0	268.1
2024	118.1	114.2	12.2	43.7	288.3
2025	126.6	122.6	12.8	46.5	308.6
2026	135.2	131.1	13.5	49.4	329.1
2027	143.8	139.6	14.1	52.2	349.7
2028	152.5	148.2	14.8	55.1	370.5
2029	156.9	154.4	15.4	56.3	383.1

**Table DSM-8. New Energy Efficiency Utility Costs 2010–2029**

Year	Residential	Commercial	Industrial	Total All Sectors
2010	\$2,185,803	\$859,845	\$1,297,023	\$4,342,671
2011	\$3,060,477	\$969,777	\$3,319,561	\$7,349,814
2012	\$3,508,588	\$1,067,687	\$4,314,247	\$8,890,522
2013	\$3,811,045	\$1,158,161	\$4,446,834	\$9,416,040
2014	\$4,058,383	\$1,243,199	\$4,658,622	\$9,960,205
2015	\$4,267,066	\$1,325,522	\$4,841,031	\$10,433,618
2016	\$4,406,327	\$1,405,619	\$4,871,784	\$10,683,730
2017	\$4,546,267	\$1,484,206	\$4,939,369	\$10,969,841
2018	\$4,672,279	\$1,561,790	\$5,011,687	\$11,245,755
2019	\$4,768,785	\$1,638,743	\$5,080,622	\$11,488,151
2020	\$4,867,634	\$1,715,345	\$5,146,344	\$11,729,324
2021	\$4,481,009	\$1,791,806	\$5,195,678	\$11,468,493
2022	\$4,584,723	\$1,868,290	\$5,269,358	\$11,722,371
2023	\$4,690,963	\$1,944,923	\$5,330,311	\$11,966,196
2024	\$4,799,793	\$2,021,803	\$5,376,699	\$12,198,295
2025	\$4,911,279	\$2,099,010	\$5,438,122	\$12,448,410
2026	\$5,025,489	\$2,176,602	\$5,496,960	\$12,699,051
2027	\$5,142,493	\$2,254,627	\$5,536,118	\$12,933,238
2028	\$5,262,362	\$2,333,121	\$5,594,501	\$13,189,985
2029	\$0	\$0	\$0	\$0
<b>20-Year NPV</b>	<b>\$42,646,505</b>	<b>\$15,206,640</b>	<b>\$46,583,003</b>	<b>\$104,436,148</b>

**Table DSM-9. New Energy Efficiency Total Resource Costs 2010–2029**

Year	Residential	Commercial	Industrial	Total All Sectors
2010	\$2,357,175	\$3,636,527	\$1,711,236	\$7,704,938
2011	\$3,639,396	\$4,162,005	\$4,382,424	\$12,183,825
2012	\$4,212,132	\$4,635,110	\$5,698,932	\$14,546,174
2013	\$4,594,083	\$5,075,432	\$5,877,320	\$15,546,835
2014	\$4,904,362	\$5,492,750	\$6,160,444	\$16,557,556
2015	\$5,166,365	\$5,896,996	\$6,404,797	\$17,468,157
2016	\$5,339,158	\$6,291,431	\$6,448,457	\$18,079,045
2017	\$5,512,736	\$6,679,287	\$6,540,755	\$18,732,777
2018	\$5,668,296	\$7,062,878	\$6,639,234	\$19,370,408
2019	\$5,785,396	\$7,443,906	\$6,733,149	\$19,962,451
2020	\$5,905,291	\$7,823,649	\$6,822,723	\$20,551,663
2021	\$5,395,175	\$8,203,079	\$6,890,478	\$20,488,732
2022	\$5,520,874	\$8,582,945	\$6,990,439	\$21,094,258
2023	\$5,649,585	\$8,963,830	\$7,073,439	\$21,686,855
2024	\$5,781,384	\$9,346,187	\$7,137,028	\$22,264,599
2025	\$5,916,347	\$9,730,368	\$7,220,494	\$22,867,209
2026	\$6,054,554	\$10,116,647	\$7,300,456	\$23,471,657
2027	\$6,196,088	\$10,505,234	\$7,354,203	\$24,055,525
2028	\$6,341,030	\$10,896,288	\$7,433,417	\$24,670,736
2029	\$0	\$0	\$0	\$0
<b>20-Year NPV</b>	<b>\$51,412,498</b>	<b>\$68,482,366</b>	<b>\$61,693,447</b>	<b>\$181,588,312</b>

**Table DSM-10. New Energy Efficiency Resource Avoided Energy Costs 2010–2029**

Year	Residential	Commercial	Industrial	Total All Sectors
2010	\$3,709,589	\$5,626,728	\$6,044,209	\$15,380,526
2011	\$6,188,004	\$6,805,914	\$16,575,769	\$29,569,686
2012	\$8,371,989	\$7,983,345	\$22,875,049	\$39,230,383
2013	\$9,735,242	\$8,899,982	\$24,155,131	\$42,790,356
2014	\$10,921,698	\$9,823,463	\$25,955,488	\$46,700,648
2015	\$12,019,828	\$10,765,480	\$27,660,310	\$50,445,619
2016	\$12,895,163	\$11,721,993	\$28,532,458	\$53,149,614
2017	\$13,807,371	\$12,710,756	\$29,672,368	\$56,190,494
2018	\$14,673,960	\$13,730,128	\$30,880,008	\$59,284,096
2019	\$15,459,304	\$14,790,279	\$32,112,014	\$62,361,597
2020	\$16,257,717	\$15,899,087	\$33,376,505	\$65,533,308
2021	\$17,119,736	\$17,068,181	\$34,601,987	\$68,789,905
2022	\$18,070,545	\$18,292,292	\$36,035,764	\$72,398,601
2023	\$18,998,401	\$19,550,317	\$37,398,739	\$75,947,457
2024	\$19,943,721	\$20,866,846	\$38,707,298	\$79,517,864
2025	\$20,959,811	\$22,253,164	\$40,189,732	\$83,402,707
2026	\$22,003,968	\$23,702,308	\$41,703,823	\$87,410,099
2027	\$23,035,571	\$25,219,078	\$43,124,470	\$91,379,118
2028	\$24,124,351	\$26,825,849	\$44,782,746	\$95,732,947
2029	\$24,876,318	\$26,875,246	\$44,782,746	\$96,534,310
<b>20-Year NPV</b>	<b>\$142,492,125</b>	<b>\$143,365,937</b>	<b>\$301,075,029</b>	<b>\$586,933,090</b>

**Table DSM-11. New Energy Efficiency Cost Effectiveness Summary**

	Impact		20-Year NPV Costs			Utility Costs		Total Resource Costs	
	2029 Load (aMW)	20-Year Energy (kWh)	Utility	Resource	Avoided Energy	Benefit/Cost Ratio	Levelized (\$/kWh)	Benefit/Cost Ratio	Levelized (\$/kWh)
Residential	29	1,096,775,152	\$42,646,505	\$51,412,498	\$142,492,125	3.3	\$0.039	2.8	\$0.047
Commercial	31	1,042,951,839	\$15,206,640	\$68,482,366	\$143,365,937	9.4	\$0.015	2.1	\$0.066
Industrial	67	2,391,084,888	\$46,583,003	\$61,693,447	\$301,075,029	6.5	\$0.019	4.9	\$0.026
<b>Total</b>	<b>127</b>	<b>4,530,811,879</b>	<b>\$104,436,148</b>	<b>\$181,588,312</b>	<b>\$586,933,090</b>	<b>5.6</b>	<b>\$0.023</b>	<b>3.2</b>	<b>\$0.040</b>

**Table DSM-12. Total Existing and New Demand Response Forecasted Impacts 2010–2029 (MW with transmission losses)**

Year	Residential	Irrigation	Commercial	Total
2010	50.6	220.0	39.6	310.2
2011	50.6	250.0	45.2	345.8
2012	50.6	260.0	56.5	367.1
2013	50.6	260.0	56.5	367.1
2014	50.6	260.0	56.5	367.1
2015	50.6	260.0	56.5	367.1
2016	50.6	260.0	56.5	367.1
2017	50.6	260.0	56.5	367.1
2018	50.6	260.0	56.5	367.1
2019	50.6	260.0	56.5	367.1
2020	50.6	260.0	56.5	367.1
2021	50.6	260.0	56.5	367.1
2022	50.6	260.0	56.5	367.1
2023	50.6	260.0	56.5	367.1
2024	50.6	260.0	56.5	367.1
2025	50.6	260.0	56.5	367.1
2026	50.6	260.0	56.5	367.1
2027	50.6	260.0	56.5	367.1
2028	50.6	260.0	56.5	367.1
2029	50.6	260.0	56.5	367.1

**Table DSM-13. Demand Response Utility Costs 2010–2029**

Year	Residential	Commercial/Industrial	Irrigation	Total All Sectors
2010	\$3,520,710	\$2,081,025	\$10,799,032	\$16,400,767
2011	\$1,352,143	\$2,760,783	\$11,038,020	\$15,150,946
2012	\$1,396,152	\$3,415,100	\$11,223,562	\$16,034,815
2013	\$1,371,927	\$3,448,853	\$11,247,225	\$16,068,005
2014	\$1,417,031	\$3,482,066	\$11,274,667	\$16,173,763
2015	\$1,760,923	\$3,489,626	\$11,306,566	\$16,557,115
2016	\$1,817,247	\$3,498,355	\$11,343,682	\$16,659,284
2017	\$1,813,491	\$3,507,347	\$11,368,382	\$16,689,220
2018	\$1,872,482	\$3,516,609	\$11,456,834	\$16,845,925
2019	\$1,869,268	\$3,526,148	\$11,434,099	\$16,829,515
2020	\$1,967,417	\$3,535,973	\$11,451,335	\$16,954,725
2021	\$2,000,416	\$3,546,093	\$11,482,018	\$17,028,527
2022	\$2,105,980	\$3,556,517	\$11,528,664	\$17,191,161
2023	\$2,141,187	\$3,567,254	\$11,565,121	\$17,273,562
2024	\$2,252,091	\$3,578,312	\$11,593,138	\$17,423,542
2025	\$2,289,700	\$3,589,703	\$11,636,912	\$17,516,315
2026	\$2,407,865	\$3,601,435	\$11,676,627	\$17,685,927
2027	\$2,446,881	\$3,613,519	\$11,705,625	\$17,766,024
2028	\$2,572,782	\$3,625,966	\$11,840,660	\$18,039,408
2029	\$2,614,977	\$3,638,786	\$11,840,660	\$18,094,423
<b>20-Year NPV</b>	<b>\$21,020,406</b>	<b>\$35,339,272</b>	<b>\$120,389,467</b>	<b>\$176,749,144</b>

**Table DSM-14. Demand Response Total Resource Costs 2010–2029**

Year	Residential	Commercial/Industrial	Irrigation	Total All Sectors
2010	\$3,520,710	\$2,081,025	\$10,799,032	\$16,400,767
2011	\$1,352,143	\$2,760,783	\$11,038,020	\$15,150,946
2012	\$1,396,152	\$3,415,100	\$11,223,562	\$16,034,815
2013	\$1,371,927	\$3,448,853	\$11,247,225	\$16,068,005
2014	\$1,417,031	\$3,482,066	\$11,274,667	\$16,173,763
2015	\$1,760,923	\$3,489,626	\$11,306,566	\$16,557,115
2016	\$1,817,247	\$3,498,355	\$11,343,682	\$16,659,284
2017	\$1,813,491	\$3,507,347	\$11,368,382	\$16,689,220
2018	\$1,872,482	\$3,516,609	\$11,456,834	\$16,845,925
2019	\$1,869,268	\$3,526,148	\$11,434,099	\$16,829,515
2020	\$1,967,417	\$3,535,973	\$11,451,335	\$16,954,725
2021	\$2,000,416	\$3,546,093	\$11,482,018	\$17,028,527
2022	\$2,105,980	\$3,556,517	\$11,528,664	\$17,191,161
2023	\$2,141,187	\$3,567,254	\$11,565,121	\$17,273,562
2024	\$2,252,091	\$3,578,312	\$11,593,138	\$17,423,542
2025	\$2,289,700	\$3,589,703	\$11,636,912	\$17,516,315
2026	\$2,407,865	\$3,601,435	\$11,676,627	\$17,685,927
2027	\$2,446,881	\$3,613,519	\$11,705,625	\$17,766,024
2028	\$2,572,782	\$3,625,966	\$11,840,660	\$18,039,408
2029	\$2,614,977	\$3,638,786	\$11,840,660	\$18,094,423
<b>20-Year NPV</b>	<b>\$21,020,406</b>	<b>\$35,339,272</b>	<b>\$120,389,467</b>	<b>\$176,749,144</b>

**Table DSM-15. Demand Response Avoided Capacity Costs 2010–2029**

Year	Residential	Commercial/Industrial	Irrigation	Total All Sectors
2010	\$3,108,304	\$2,636,945	\$16,262,282	\$22,107,531
2011	\$3,117,340	\$3,042,059	\$17,125,711	\$23,285,110
2012	\$3,140,508	\$3,893,616	\$17,405,016	\$24,439,140
2013	\$3,144,787	\$3,910,432	\$17,456,605	\$24,511,824
2014	\$3,146,863	\$3,918,590	\$17,481,633	\$24,547,086
2015	\$3,147,966	\$3,922,926	\$17,494,936	\$24,565,828
2016	\$3,149,066	\$3,927,247	\$17,508,191	\$24,584,503
2017	\$3,151,905	\$3,938,404	\$17,542,418	\$24,632,727
2018	\$3,154,249	\$3,947,614	\$17,570,675	\$24,672,538
2019	\$3,156,852	\$3,957,844	\$17,602,057	\$24,716,752
2020	\$3,160,032	\$3,970,342	\$17,640,402	\$24,770,776
2021	\$3,162,847	\$3,981,405	\$17,674,340	\$24,818,592
2022	\$3,164,891	\$3,989,438	\$17,698,985	\$24,853,315
2023	\$3,169,750	\$4,008,532	\$17,757,562	\$24,935,844
2024	\$3,172,541	\$4,019,498	\$17,791,203	\$24,983,242
2025	\$3,175,111	\$4,029,598	\$17,822,188	\$25,026,896
2026	\$3,177,585	\$4,039,320	\$17,852,014	\$25,068,919
2027	\$3,179,706	\$4,047,657	\$17,877,590	\$25,104,953
2028	\$3,181,640	\$4,055,256	\$17,900,902	\$25,137,798
2029	\$3,185,424	\$4,070,128	\$17,900,902	\$25,156,455
<b>20-Year NPV</b>	<b>\$33,417,991</b>	<b>\$39,982,107</b>	<b>\$185,238,997</b>	<b>\$258,639,09</b>

**Table DSM-16. Demand Response Cost-Effectiveness Summary**

	Impact		20-Year NPV Costs			Total Resource Costs	
	2029 Load (aMW)	20-Year Energy (kWh)	Utility	Resource	Avoided Energy	Benefit/Cost Ratio	Levelized (\$/kWh)
Residential	51	555,495	\$21,020,406	\$21,020,406	\$33,417,991	1.6	\$38
Commercial/Industrial	56	573,775	\$35,339,272	\$35,339,272	\$39,982,107	1.1	\$62
Irrigation	260	2,748,954	\$120,389,467	\$120,389,467	\$185,238,997	1.5	\$44
<b>Total</b>	<b>367</b>	<b>3,878,225</b>	<b>\$176,749,144</b>	<b>\$176,749,144</b>	<b>\$258,639,094</b>	<b>1.5</b>	<b>\$46</b>

Monthly Average Energy	2010												2011											
	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
<b>Load and Resource Balance</b>																								
<b>Load Forecast (70th%)—Aug 2009</b>	(1,857)	(1,743)	(1,546)	(1,526)	(1,724)	(2,143)	(2,426)	(2,242)	(1,852)	(1,538)	(1,671)	(1,995)	(1,866)	(1,845)	(1,641)	(1,621)	(1,811)	(2,222)	(2,515)	(2,328)	(1,930)	(1,602)	(1,741)	(2,049)
Existing DSM (Energy Efficiency)	13	13	13	14	15	16	17	16	14	13	13	13	25	25	25	26	30	33	33	32	28	26	25	25
<b>Load Forecast (70th%) w/Existing DSM</b>	(1,844)	(1,730)	(1,533)	(1,512)	(1,709)	(2,126)	(2,409)	(2,226)	(1,838)	(1,525)	(1,658)	(1,982)	(1,841)	(1,820)	(1,616)	(1,595)	(1,781)	(2,200)	(2,482)	(2,296)	(1,902)	(1,577)	(1,716)	(2,024)
<b>Existing Resources</b>																								
<b>Coal (w/Curtailment)</b>	919	919	861	628	587	919	924	924	924	922	924	924	924	924	924	685	712	905	928	928	928	927	928	928
Hydro (70th%)—HCC	610	598	620	697	848	657	477	378	425	434	364	475	669	532	620	697	848	667	477	378	425	434	363	475
Hydro (70th%)—Other	221	296	250	248	329	341	252	248	240	227	210	216	221	296	250	248	328	340	252	247	240	227	210	215
Sho-Ban Water Lease	0	0	0	0	0	0	71	0	0	0	0	0	0	0	0	0	0	71	0	0	0	0	0	0
<b>Total Hydro (70th%)</b>	831	894	870	945	1,177	1,008	801	626	665	651	574	691	890	828	869	945	1,176	1,007	801	625	664	661	574	690
<b>CSPP (PURPA)</b>	64	68	67	92	137	146	145	136	117	119	112	120	102	118	125	144	184	194	180	169	160	139	114	120
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	34	33	34	35	30	37	37	33	29	35	32	44	34	33	34	35	30	37	37	33	29	35	32	44
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PPL Montana - Jefferson (83 MW)	0	0	0	0	0	48	48	46	0	0	0	0	0	0	0	0	0	48	45	48	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	29	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	42	42	0	0	0	0	0	0	0	0	0	42	42	0	0	0	0	0
<b>Total Power Purchase Agreements</b>	44	43	44	45	40	95	156	159	39	45	42	54	44	43	44	45	40	95	134	133	39	45	42	54
<b>Firm Pacific NW Import Capability</b> (Actuals Through Sept 2010)	270	325	238	310	301	241	123	187	177	44	264	309	342	389	372	387	343	237	117	183	175	127	263	307
<b>Gas Peakers</b>	224	0	0	0	0	240	233	233	0	0	0	233	224	0	0	0	0	240	226	242	0	0	0	233
Existing Resource Subtotal	2,350	2,249	2,079	2,019	2,242	2,648	2,391	2,264	1,920	1,791	2,016	2,330	2,525	2,302	2,334	2,206	2,455	2,678	2,384	2,281	1,966	1,899	2,022	2,332
<b>Monthly Surplus/Deficit</b>	506	518	546	507	533	522	(19)	38	82	266	358	358	584	482	718	611	674	478	(98)	(15)	65	322	306	308
<b>2006 IRP Resources</b>																								
2012 Wind RFP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Langley Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Remaining Monthly Surplus/Deficit</b>	506	518	546	507	533	522	(19)	38	82	266	358	358	584	482	718	611	674	478	(98)	(15)	65	322	306	308
<b>2009 IRP DSM</b>																								
Industrial	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3
Commercial	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
Residential	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
<b>Total New DSM Average Energy</b>	3	3	3	3	3	3	3	3	3	3	3	3	7	7	7	7	7	7	7	7	7	7	7	7
<b>Remaining Monthly Surplus/Deficit</b>	509	521	549	510	536	525	(16)	41	85	269	361	361	591	489	725	618	681	485	(91)	(8)	72	329	313	315
<b>2009 IRP Resources</b>																								
2015 Boardman-Hemingway Transmission																								
2015 Shoshone Falls Upgrade (40 MW)																								
2017 Boardman-Hemingway Transmission																								
2020 Large Aero (100 MW)																								
2022 Wind (100 MW)																								
2024 Large Aero (2 X 100 MW)																								
2025 Gateway West Transmission																								
2026 Large Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	509	521	549	510	536	525	(16)	41	85	269	361	361	591	489	725	618	681	485	(91)	(8)	72	329	313	315

Monthly Average Energy	2012												2013											
	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
<b>Load and Resource Balance</b>																								
Load Forecast (70th%)—Aug 2009	(2,027)	(1,890)	(1,692)	(1,669)	(1,858)	(2,287)	(2,579)	(2,388)	(1,979)	(1,652)	(1,793)	(2,090)	(2,046)	(1,821)	(1,710)	(1,697)	(1,879)	(2,334)	(2,650)	(2,446)	(2,013)	(1,675)	(1,416)	(2,122)
Existing DSM (Energy Efficiency)	37	37	37	33	45	48	47	42	42	38	37	37	40	40	40	52	58	63	64	62	55	50	49	50
Load Forecast (70th%) w/Existing DSM	(1,990)	(1,853)	(1,655)	(1,636)	(1,814)	(2,239)	(2,531)	(2,346)	(1,937)	(1,615)	(1,756)	(2,053)	(1,997)	(1,872)	(1,671)	(1,645)	(1,821)	(2,270)	(2,587)	(2,385)	(1,957)	(1,625)	(1,367)	(2,072)
<b>Existing Resources</b>																								
<b>Coal (w/Curtailment)</b>	928	939	898	543	718	881	934	934	934	768	934	934	934	934	833	0	490	934	940	940	765	646	940	940
Hydro (70th%)—NCC	586	511	519	597	848	567	477	377	425	434	363	475	685	514	615	696	848	566	477	377	424	433	364	474
Hydro (70th%)—Other	220	296	240	250	328	340	252	247	246	227	210	215	220	296	240	250	328	339	251	246	239	227	210	215
Sno-Ban Water Lease	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0
<b>Total Hydro (70th%)</b>	906	807	869	946	1,176	1,006	809	624	664	661	573	690	905	810	864	946	1,176	1,006	799	625	664	660	574	689
<b>CSPP (PURPA)</b>	102	118	125	144	184	194	180	169	160	139	114	120	102	118	125	144	184	194	180	169	160	139	114	120
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	34	33	34	35	30	37	37	33	29	35	32	44	34	33	34	35	30	37	37	33	29	35	32	44
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PPL Montana - Jefferson (83 MW)	0	0	0	0	0	0	45	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Power Purchase Agreements</b>	44	43	44	45	40	47	92	91	39	45	42	54	44	43	44	45	40	47	47	43	39	45	42	54
<b>Firm Pacific NW Import Capability</b> (Actuals Through Sept 2010)	340	387	396	287	363	233	114	180	172	172	261	305	337	384	449	388	366	229	110	178	170	222	358	302
<b>Gas Peakers</b>	224	0	0	0	0	240	224	242	0	0	0	224	233	0	0	0	0	231	233	252	0	0	0	224
<b>Existing Resource Subtotal</b>	2,543	2,294	2,332	1,965	2,481	2,602	2,344	2,241	1,969	1,785	2,025	2,326	2,555	2,290	2,315	1,523	2,256	2,641	2,310	2,195	1,798	1,712	2,029	2,328
<b>Monthly Surplus/Deficit</b>	554	441	677	335	667	363	(187)	(100)	32	170	269	274	558	418	654	(113)	435	371	(277)	(189)	(159)	87	262	256
<b>2009 IRP Resources</b>	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
2012 Wind RFP	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
Langley Gulch	0	0	0	0	0	0	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251
Geothermal	0	0	0	0	0	0	0	0	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Remaining Monthly Surplus/Deficit</b>	602	489	725	383	715	411	112	199	331	488	587	592	876	737	972	205	753	689	41	120	150	405	580	574
<b>2009 IRP DSM</b>	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Industrial	6	6	6	6	6	6	6	6	6	6	6	6	9	9	9	9	9	10	10	10	9	9	9	9
Commercial	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
Residential	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	4	4	4	4	4	4	4
<b>Total New DSM Average Energy</b>	12	12	12	12	12	12	12	12	12	12	12	12	18	18	18	18	18	18	18	18	18	18	18	18
<b>Remaining Monthly Surplus/Deficit</b>	614	502	737	396	727	423	125	211	343	501	600	604	895	755	991	223	772	707	59	147	177	423	598	592
<b>2009 IRP Resources</b>	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
2015 Boardman-Hemingway Transmission																								
2015 Shoshone Falls Upgrade (40 MW)																								
2017 Boardman-Hemingway Transmission																								
2020 Large Aero (100 MW)																								
2022 Wind (100 MW)																								
2024 Large Aero (2 X 100 MW)																								
2025 Gateway West Transmission																								
2026 Large Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	614	502	737	396	727	423	125	211	343	501	600	604	895	755	991	223	772	707	59	147	177	423	598	592

Monthly Average Energy	2014												2015																			
	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15								
<b>Load and Resource Balance</b>																																
<b>Load Forecast (70th%)—Aug 2009</b>	(2,081)	(1,952)	(1,738)	(1,714)	(1,508)	(2,371)	(2,635)	(2,432)	(2,046)	(1,705)	(1,850)	(2,152)	(2,101)	(1,969)	(1,755)	(1,730)	(1,928)	(2,402)	(2,737)	(2,528)	(2,075)	(1,727)	(1,879)	(2,178)								
Existing DSM (Energy Efficiency)	61	61	61	64	72	78	73	76	58	62	62	61	73	73	73	76	86	92	93	90	81	74	74	73								
<b>Load Forecast (70th%) w/Existing DSM</b>	(2,020)	(1,891)	(1,677)	(1,650)	(1,436)	(2,293)	(2,562)	(2,356)	(1,988)	(1,643)	(1,788)	(2,091)	(2,028)	(1,896)	(1,682)	(1,653)	(1,842)	(2,310)	(2,645)	(2,438)	(1,994)	(1,652)	(1,797)	(2,105)								
<b>Existing Resources</b>																																
<b>Coal (w/Curtailment)</b>	340	332	715	0	431	880	940	940	765	646	940	940	938	938	451	490	490	506	938	938	646	404	398	338								
Hydro (70th%)—HCC	584	529	597	695	846	665	475	376	422	432	364	472	683	535	589	694	845	664	474	375	422	430	364	471								
Hydro (70th%)—Other	219	295	248	249	327	338	248	243	258	226	209	213	218	295	247	247	326	336	248	242	237	225	209	213								
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
<b>Total Hydro (70th%)</b>	803	824	845	944	1,173	1,003	723	619	681	658	573	685	901	830	835	941	1,171	1,000	722	617	659	655	573	683								
<b>CSPP (PURPA)</b>	102	118	125	144	184	194	180	169	160	139	114	120	102	118	125	144	184	194	180	169	160	139	114	120								
<b>Power Purchase Agreements</b>																																
Elkhorn Valley Wind	34	33	34	35	30	37	37	33	29	35	32	44	34	33	34	35	30	37	37	33	29	35	32	44								
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10								
PPL Montana—Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
<b>Total Power Purchase Agreements</b>	44	43	44	45	40	47	47	43	39	45	42	54	44	43	44	45	40	47	47	43	39	45	42	54								
<b>Firm Pacific NW Import Capability</b> (Actuals Through Sept 2010)	335	381	447	390	334	226	106	174	168	322	356	299	202	379	446	290	335	222	103	172	167	214	354	297								
<b>Gas Peakers</b>	233	0	0	0	0	231	233	233	0	0	0	233	233	0	0	0	0	240	233	233	0	0	0	233								
<b>Existing Resource Subtotal</b>	2,557	2,299	2,175	1,523	2,222	2,581	2,231	2,178	1,793	1,809	2,026	2,330	2,420	2,309	1,941	1,910	2,220	2,609	2,223	2,172	1,671	1,497	2,022	2,325								
<b>Monthly Surplus/Deficit</b>	537	408	498	(127)	387	288	(389)	(238)	(187)	166	238	240	392	414	259	256	377	290	(421)	(266)	(324)	(155)	225	222								
<b>2006 IRP Resources</b>	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15								
2012 Wind RFP	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48								
Langley Gulch	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251								
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19								
Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
<b>Remaining Monthly Surplus/Deficit</b>	855	727	816	191	705	606	(71)	80	131	484	556	558	710	732	577	575	695	618	(103)	52	(6)	163	543	540								
<b>2009 IRP DSM</b>	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15								
Industrial	13	13	13	13	13	13	13	13	13	13	13	13	16	16	16	16	16	17	17	17	16	16	16	16								
Commercial	5	5	5	5	5	5	5	5	5	5	5	5	7	7	7	7	7	7	7	7	7	7	7	7								
Residential	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8								
<b>Total New DSM Average Energy</b>	24	24	24	24	24	24	24	24	24	24	25	24	31	31	31	31	31	31	31	31	31	31	31	31								
<b>Remaining Monthly Surplus/Deficit</b>	879	751	841	216	729	630	(47)	105	156	508	580	583	741	763	608	605	726	648	(72)	83	25	194	575	571								
<b>2009 IRP Resources</b>	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15								
2015 Boardman—Hemingway Transmission																			250	250	250	250	250	250	250	250						
2015 Shoshone Falls Upgrade (40 MW)																											0	0	0	0	0	
2017 Boardman—Hemingway Transmission																																
2020 Large Aero (100 MW)																																
2022 Wind (100 MW)																																
2024 Large Aero (2 X 100 MW)																																
2025 Gateway West Transmission																																
2026 Large Aero (2 X 100 MW)																																
2027 Wind (2 X 200 MW)																																
2028 Large Aero (4 X 100 MW)																																
2029 Large Aero (5 X 100 MW)																																
<b>Monthly Surplus/Deficit</b>	879	751	841	216	729	630	(47)	105	156	508	580	583	741	763	608	605	726	898	178	333	275	444	825	824								

Monthly Average Energy	2016												2017											
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
<b>Load and Resource Balance</b>																								
Load Forecast (70th%)—Aug 2009	(2,122)	(1,974)	(1,771)	(1,746)	(1,948)	(2,430)	(2,774)	(2,562)	(2,101)	(1,747)	(1,892)	(2,200)	(2,142)	(2,004)	(1,789)	(1,762)	(1,968)	(2,460)	(2,813)	(2,509)	(2,126)	(1,769)	(1,914)	(2,225)
Existing DSM (Energy Efficiency)	85	85	84	88	90	106	107	104	94	87	85	84	97	96	96	101	112	120	121	117	106	99	97	97
Load Forecast (70th%) w/Existing DSM	(2,037)	(1,889)	(1,687)	(1,657)	(1,848)	(2,324)	(2,667)	(2,459)	(2,007)	(1,661)	(1,807)	(2,115)	(2,045)	(1,908)	(1,693)	(1,662)	(1,856)	(2,340)	(2,692)	(2,401)	(2,020)	(1,670)	(1,817)	(2,127)
<b>Existing Resources</b>																								
<b>Coal (w/Curtailment)</b>	937	947	900	366	418	909	937	937	645	443	937	937	937	937	360	398	298	909	937	937	645	443	882	937
Hydro (70th%)—HCC	682	531	590	693	844	663	473	374	420	429	363	471	681	551	567	692	843	662	472	373	419	427	364	469
Hydro (70th%)—Other	218	295	246	246	326	335	246	241	236	225	268	212	217	295	246	245	325	334	245	240	236	224	297	211
Sho-Bart Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro (70th%)</b>	899	826	836	939	1,170	998	719	619	657	654	571	683	898	846	813	937	1,168	996	717	612	655	651	572	681
<b>CSPP (PURPA)</b>	102	118	125	144	184	194	180	169	160	139	114	120	102	118	125	144	184	194	190	169	160	139	114	120
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	34	33	34	35	30	37	37	33	29	35	32	44	34	33	34	35	30	37	37	33	29	35	32	44
Ralk River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PPL Montana - Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Power Purchase Agreements</b>	44	43	44	45	40	47	47	43	39	45	42	54	44	43	44	45	40	47	47	43	39	45	42	54
<b>Firm Pacific NW Import Capability</b> (Actuals Through Sept 2010)	330	376	445	397	336	219	99	169	169	234	351	295	328	374	444	393	335	215	94	166	162	252	349	294
<b>Gas Peakers</b>	224	0	0	0	0	240	224	242	0	0	0	233	224	0	0	0	0	240	224	252	0	0	0	224
<b>Existing Resource Subtotal</b>	2,535	2,311	2,040	1,881	2,148	2,608	2,206	2,175	1,865	1,514	2,016	2,321	2,531	2,319	1,985	1,716	2,025	2,601	2,199	2,169	1,660	1,529	1,959	2,309
<b>Monthly Surplus/Deficit</b>	499	422	323	224	300	284	(461)	(284)	(342)	(147)	209	205	486	411	293	55	169	262	(493)	(312)	(361)	(181)	142	182
<b>2009 IRP Resources</b>	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
2012 Wind RFP	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
Langley Gulch	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Remaining Monthly Surplus/Deficit</b>	817	740	641	542	618	602	(143)	34	(24)	191	547	543	823	749	630	392	506	599	(156)	25	(24)	196	480	519
<b>2009 IRP DSM</b>	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Industrial	20	20	20	20	20	20	20	20	20	20	20	20	23	23	23	23	23	24	24	24	23	23	23	23
Commercial	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	10	10	10	9	9	9	10
Residential	10	10	10	10	10	0	0	0	10	10	10	10	12	12	12	12	12	10	10	10	12	12	12	12
<b>Total New DSM Average Energy</b>	38	37	37	37	38	37	37	37	38	38	38	37	44	44	44	44	44	45	44	44	44	44	44	45
<b>Remaining Monthly Surplus/Deficit</b>	855	777	679	579	656	639	(105)	71	14	228	584	580	868	793	675	437	551	643	(112)	69	20	241	524	564
<b>2009 IRP Resources</b>	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
2015 Boardman-Hemingway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (40 MW)	6	31	12	0	14	17	0	0	0	0	0	3	8	31	12	0	14	17	0	0	0	0	0	3
2017 Boardman-Hemingway Transmission													175	175	175	175	175	175	175	175	175	175	175	175
2020 Large Aero (100 MW)																								
2022 Wind (100 MW)																								
2024 Large Aero (2 X 100 MW)																								
2025 Gateway West Transmission																								
2026 Large Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	1,111	1,059	941	840	920	907	145	321	264	478	834	833	1,299	1,249	1,112	862	990	1,086	313	494	445	656	948	992

Monthly Average Energy	2018												2019											
	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
<b>Load and Resource Balance</b>																								
<b>Load Forecast (70th%)—Aug 2009</b>	(2,163)	(2,922)	(1,806)	(1,779)	(1,989)	(2,490)	(2,852)	(2,625)	(2,155)	(1,790)	(1,936)	(2,250)	(2,183)	(2,038)	(1,822)	(1,735)	(2,009)	(2,521)	(2,892)	(2,673)	(2,182)	(1,811)	(1,957)	(2,274)
Existing DSM (Energy Efficiency)	162	108	108	113	125	134	135	131	120	110	103	100	126	120	120	125	138	148	143	145	132	122	121	121
<b>Load Forecast (70th%) w/Existing DSM</b>	(2,054)	(1,914)	(1,698)	(1,666)	(1,863)	(2,356)	(2,717)	(2,504)	(2,035)	(1,680)	(1,827)	(2,141)	(2,057)	(1,918)	(1,701)	(1,610)	(1,871)	(2,373)	(2,749)	(2,528)	(2,050)	(1,689)	(1,836)	(2,153)
<b>Existing Resources</b>																								
<b>Coal (w/Curtailment)</b>	937	937	560	319	288	899	930	930	642	440	879	930	937	937	460	180	168	879	934	934	642	280	746	934
Hydro (70th%)—HCC	580	558	558	691	842	661	471	372	418	426	364	468	679	564	549	689	841	659	470	371	417	425	364	468
Hydro (70th%)—Other	216	295	245	244	324	333	243	238	235	223	207	211	216	295	244	244	323	331	242	237	234	223	207	210
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro (70th%)</b>	896	853	802	935	1,166	893	714	610	653	649	571	679	894	859	793	933	1,164	991	712	608	650	648	571	678
<b>CSPP (PURPA)</b>	162	118	125	144	184	194	186	169	160	139	114	120	192	118	125	144	184	194	189	169	166	139	114	120
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	34	33	34	35	30	37	37	33	29	35	32	44	34	33	34	35	30	37	37	33	29	35	32	44
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PPL Montana - Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wind Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Power Purchase Agreements</b>	44	43	44	45	40	47	47	43	39	45	42	54	44	43	44	45	40	47	47	43	39	45	42	54
<b>Firm Pacific NW Import Capability (Actuals Through Sept 2010)</b>	279	321	441	301	336	211	90	164	160	266	348	292	324	369	440	385	336	208	86	161	159	312	344	260
<b>Gas Peakers</b>	233	0	0	0	0	240	224	242	0	0	0	224	233	0	0	0	0	231	233	242	0	0	0	224
<b>Existing Resource Subtotal</b>	2,490	2,323	1,972	1,744	2,014	2,584	2,189	2,162	1,653	1,539	1,955	2,302	2,533	2,327	1,852	1,687	1,892	2,549	2,192	2,157	1,850	1,427	1,817	2,289
<b>Monthly Surplus/Deficit</b>	435	409	274	78	151	228	(528)	(342)	(382)	(141)	128	161	471	408	161	17	21	177	(551)	(971)	(400)	(262)	(18)	116
<b>2006 IRP Resources</b>	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
2012 Wind RFP	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
Langley Gulch	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
<b>Remaining Monthly Surplus/Deficit</b>	773	747	612	415	488	565	(190)	(5)	(45)	196	485	499	808	746	498	354	358	514	(214)	(34)	(62)	75	319	454
<b>2009 IRP DSM</b>	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
Industrial	27	27	27	27	27	28	28	28	27	27	27	27	31	31	31	31	31	32	32	32	31	31	31	31
Commercial	11	11	11	11	11	11	11	11	11	11	11	11	13	13	13	13	13	13	13	13	13	13	13	13
Residential	13	13	13	13	13	12	12	12	13	13	13	13	15	15	15	15	15	15	13	13	15	15	15	15
<b>Total New DSM Average Energy</b>	51	51	51	51	52	51	51	51	52	51	51	52	59	58	58	58	58	58	58	58	59	58	59	59
<b>Remaining Monthly Surplus/Deficit</b>	824	798	663	467	540	616	(139)	46	7	247	517	550	866	804	556	413	417	572	(155)	25	(4)	134	377	512
<b>2009 IRP Resources</b>	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
2015 Boardman-Hemlockway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (48 MW)	6	31	12	0	14	17	0	0	0	0	0	3	6	31	12	0	14	17	0	0	0	0	0	3
2017 Boardman-Hemlockway Transmission	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2020 Large Aero (100 MW)																								
2022 Wind (100 MW)																								
2024 Large Aero (2 X 100 MW)																								
2025 Gateway West Transmission																								
2026 Large Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	1,256	1,254	1,100	892	979	1,059	286	471	432	672	942	978	1,298	1,261	993	838	856	1,015	270	450	421	559	802	941

Monthly Average Energy	2020												2021											
	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
<b>Load and Resource Balance</b>																								
Load Forecast (70th%)—Aug 2009	(2,297)	(2,047)	(1,840)	(1,813)	(2,051)	(2,554)	(2,334)	(2,712)	(2,211)	(1,833)	(1,980)	(2,293)	(2,215)	(2,065)	(1,848)	(1,821)	(2,043)	(2,574)	(2,961)	(2,738)	(2,250)	(1,847)	(1,952)	(2,311)
Existing DSM (Energy Efficiency)	132	132	132	137	152	162	163	158	144	134	133	132	145	144	143	149	165	176	177	172	157	146	144	144
Load Forecast (70th%) w/Existing DSM	(2,074)	(1,815)	(1,707)	(1,676)	(1,899)	(2,392)	(2,172)	(2,554)	(2,068)	(1,699)	(1,846)	(2,160)	(2,070)	(1,922)	(1,705)	(1,673)	(1,878)	(2,398)	(2,785)	(2,565)	(2,073)	(1,700)	(1,808)	(2,167)
<b>Existing Resources</b>																								
Coal (w/Curtailment)	937	937	487	180	338	926	934	934	642	284	773	934	937	937	578	180	248	898	934	934	544	284	563	934
Hydro (70th%)—HCC	677	561	551	588	839	658	468	370	416	423	364	468	676	571	538	687	838	657	467	368	415	422	364	468
Hydro (70th%)—Other	220	235	244	244	322	330	241	226	232	222	216	216	219	234	243	243	322	330	240	235	231	221	216	209
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro (70th%)	897	855	794	932	1,162	989	709	606	648	645	574	677	895	865	781	931	1,160	987	707	603	646	643	574	677
CSPP (PURPA)	162	118	125	144	184	194	180	169	160	139	114	120	102	118	125	144	184	194	180	169	160	139	114	120
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	34	33	34	35	30	37	37	33	29	35	32	44	34	33	34	35	30	37	37	33	29	35	32	44
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PPL Montana - Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Purchase Agreements	44	43	44	45	40	47	47	43	39	45	42	54	44	43	44	45	40	47	47	43	39	45	42	54
Firm Pacific NW Import Capability (Actuals Through Sept 2010)	330	376	445	387	336	218	38	163	165	234	351	295	330	376	445	387	336	219	99	169	165	234	351	295
Gas Peakers	233	0	0	0	0	240	233	233	0	0	0	233	224	0	0	0	0	240	242	233	0	0	0	233
Existing Resource Subtotal	2,542	2,330	1,895	1,688	2,060	2,615	2,208	2,154	1,653	1,346	1,855	2,313	2,531	2,340	1,973	1,687	1,968	2,585	2,209	2,151	1,653	1,344	1,645	2,312
Monthly Surplus/Deficit	468	415	187	12	181	223	(569)	(400)	(415)	(353)	9	152	461	418	268	14	90	187	(575)	(414)	(420)	(356)	(204)	144
<b>2009 IRP Resources</b>																								
2012 Wind RFP	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
Langley Gulch	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Remaining Monthly Surplus/Deficit	805	752	525	350	518	561	(232)	(63)	(77)	(16)	346	490	799	756	605	351	428	524	(238)	(77)	(82)	(19)	134	482
<b>2009 IRP DSM</b>																								
Industrial	35	34	33	34	35	36	36	36	34	34	35	35	39	38	38	38	39	40	40	38	38	38	38	38
Commercial	14	14	14	14	15	15	15	15	14	14	15	14	16	16	16	16	16	17	17	16	16	16	16	16
Residential	17	17	17	17	17	18	18	18	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	18
Total New DSM Average Energy	66	65	64	65	68	69	69	69	66	66	67	66	72	72	72	72	73	73	73	73	73	73	73	73
Remaining Monthly Surplus/Deficit	871	818	591	415	584	626	(166)	3	(12)	50	412	555	872	828	677	424	501	507	(165)	(4)	(9)	54	207	555
<b>2009 IRP Resources</b>																								
2015 Boardman-Hemingway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (40 MW)	6	31	17	0	14	17	0	0	0	0	0	3	6	31	12	0	14	17	0	0	0	0	0	3
2017 Boardman-Hemingway Transmission	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2020 Large Aero (100 MW)	56	0	0	0	0	58	56	56	0	0	0	56	54	0	0	0	0	58	58	56	0	0	0	56
2022 Wind (100 MW)																								
2024 Large Aero (2 X 100 MW)																								
2025 Gateway West Transmission																								
2026 Large Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
Monthly Surplus/Deficit	1,359	1,274	1,028	840	1,023	1,126	315	484	413	475	838	1,039	1,357	1,285	1,115	849	940	1,097	318	477	416	479	632	1,039

Monthly Average Energy	2022												2023											
	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
<b>Load and Resource Balance</b>																								
<b>Load Forecast (70th%)—Aug 2009</b>	(2,236)	(2,081)	(1,864)	(1,836)	(2,062)	(2,601)	(2,997)	(2,771)	(2,254)	(1,867)	(2,013)	(2,333)	(2,243)	(2,992)	(1,876)	(1,849)	(2,078)	(2,627)	(3,032)	(2,804)	(2,276)	(1,884)	(2,029)	(2,341)
Existing DSM (Energy Efficiency)	157	155	155	161	179	190	181	186	170	159	156	155	168	167	167	171	191	204	205	200	182	170	168	169
<b>Load Forecast (70th%) w/Existing DSM</b>	(2,077)	(1,926)	(1,709)	(1,675)	(1,883)	(2,411)	(2,806)	(2,585)	(2,085)	(1,708)	(1,857)	(2,178)	(2,081)	(1,326)	(1,709)	(1,678)	(1,887)	(2,423)	(2,827)	(2,604)	(2,096)	(1,714)	(1,862)	(2,173)
<b>Existing Resources</b>																								
<b>Coal (w/Curtailment)</b>	937	937	578	0	180	898	934	934	644	284	563	934	937	937	403	0	180	898	934	934	494	284	526	934
Hydro (70th%)—HCC	675	577	529	686	837	656	466	367	414	420	364	468	674	579	525	685	836	655	465	366	412	418	364	468
Hydro (70th%)—Other	219	294	242	243	321	329	239	235	229	203	208	218	294	242	242	242	320	328	238	234	228	219	209	208
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro (70th%)</b>	894	871	771	929	1,158	985	705	602	642	640	573	676	892	873	766	927	1,156	982	703	600	640	638	573	676
<b>CSPP (PURPA)</b>	102	118	125	144	184	194	180	169	160	139	114	120	102	118	125	144	184	194	180	169	160	139	114	120
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	34	33	34	35	30	37	37	33	29	35	32	44	34	33	34	35	30	37	37	33	29	35	32	44
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PPL Montana - Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wind Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Power Purchase Agreements</b>	44	43	44	45	40	47	47	43	39	45	42	54	44	43	44	45	40	47	47	43	39	45	42	54
<b>Firm Pacific NW Import Capability (Actuals Through Sept 2010)</b>	330	376	445	387	336	210	90	160	165	234	351	295	330	376	445	387	336	210	90	160	165	234	351	295
<b>Gas Peakers</b>	224	0	0	0	0	240	224	242	0	0	0	242	224	0	0	0	0	240	224	242	0	0	0	224
<b>Existing Resource Subtotal</b>	<b>2,530</b>	<b>2,346</b>	<b>1,964</b>	<b>1,505</b>	<b>1,898</b>	<b>2,583</b>	<b>2,189</b>	<b>2,159</b>	<b>1,650</b>	<b>1,342</b>	<b>1,644</b>	<b>2,320</b>	<b>2,537</b>	<b>2,348</b>	<b>1,783</b>	<b>1,503</b>	<b>1,896</b>	<b>2,581</b>	<b>2,187</b>	<b>2,157</b>	<b>1,468</b>	<b>1,339</b>	<b>1,607</b>	<b>2,302</b>
<b>Monthly Surplus/Deficit</b>	<b>453</b>	<b>420</b>	<b>255</b>	<b>(171)</b>	<b>16</b>	<b>172</b>	<b>(617)</b>	<b>(426)</b>	<b>(435)</b>	<b>(367)</b>	<b>(212)</b>	<b>142</b>	<b>456</b>	<b>422</b>	<b>74</b>	<b>(172)</b>	<b>9</b>	<b>157</b>	<b>(640)</b>	<b>(447)</b>	<b>(628)</b>	<b>(375)</b>	<b>(255)</b>	<b>129</b>
<b>2005 IRP Resources</b>																								
2012 Wind RFP	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
Langley Gulch	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
<b>Remaining Monthly Surplus/Deficit</b>	<b>790</b>	<b>757</b>	<b>592</b>	<b>167</b>	<b>353</b>	<b>510</b>	<b>(279)</b>	<b>(89)</b>	<b>(97)</b>	<b>(29)</b>	<b>125</b>	<b>480</b>	<b>793</b>	<b>759</b>	<b>411</b>	<b>166</b>	<b>346</b>	<b>495</b>	<b>(303)</b>	<b>(110)</b>	<b>(291)</b>	<b>(37)</b>	<b>83</b>	<b>467</b>
<b>2009 IRP DSM</b>																								
Industrial	43	42	42	42	43	44	44	44	42	42	42	42	46	46	46	46	47	48	48	48	46	46	46	47
Commercial	18	18	18	18	18	19	19	19	18	18	18	18	20	20	20	20	20	21	21	21	20	20	20	20
Residential	20	20	20	20	20	17	17	17	20	20	20	20	21	21	21	21	21	19	19	19	21	21	21	21
<b>Total New DSM Average Energy</b>	<b>81</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>81</b>	<b>80</b>	80	80	80	80	80	80	<b>88</b>	<b>87</b>	<b>87</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>87</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>
<b>Remaining Monthly Surplus/Deficit</b>	<b>871</b>	<b>838</b>	<b>672</b>	<b>247</b>	<b>434</b>	<b>590</b>	<b>(109)</b>	<b>(9)</b>	<b>(17)</b>	<b>51</b>	<b>205</b>	<b>560</b>	<b>881</b>	<b>847</b>	<b>498</b>	<b>253</b>	<b>434</b>	<b>582</b>	<b>(215)</b>	<b>(22)</b>	<b>(209)</b>	<b>50</b>	<b>170</b>	<b>555</b>
<b>2009 IRP Resources</b>																								
2015 Boardman-Hemingway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (43 MW)	6	31	12	0	14	17	0	0	0	0	0	3	8	31	12	0	14	17	0	0	0	0	0	3
2017 Boardman-Hemingway Transmission	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2020 Large Aero (100 MW)	54	0	0	0	0	58	54	58	0	0	0	58	54	0	0	0	58	54	58	0	0	0	54	54
2022 Wind (100 MW)	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2024 Large Aero (2 X 100 MW)																								
2025 Gateway West Transmission																								
2026 Large Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	<b>1,388</b>	<b>1,326</b>	<b>1,141</b>	<b>704</b>	<b>905</b>	<b>1,122</b>	<b>311</b>	<b>506</b>	<b>440</b>	<b>508</b>	<b>662</b>	<b>1,078</b>	<b>1,400</b>	<b>1,335</b>	<b>967</b>	<b>710</b>	<b>905</b>	<b>1,114</b>	<b>295</b>	<b>493</b>	<b>254</b>	<b>507</b>	<b>627</b>	<b>1,068</b>

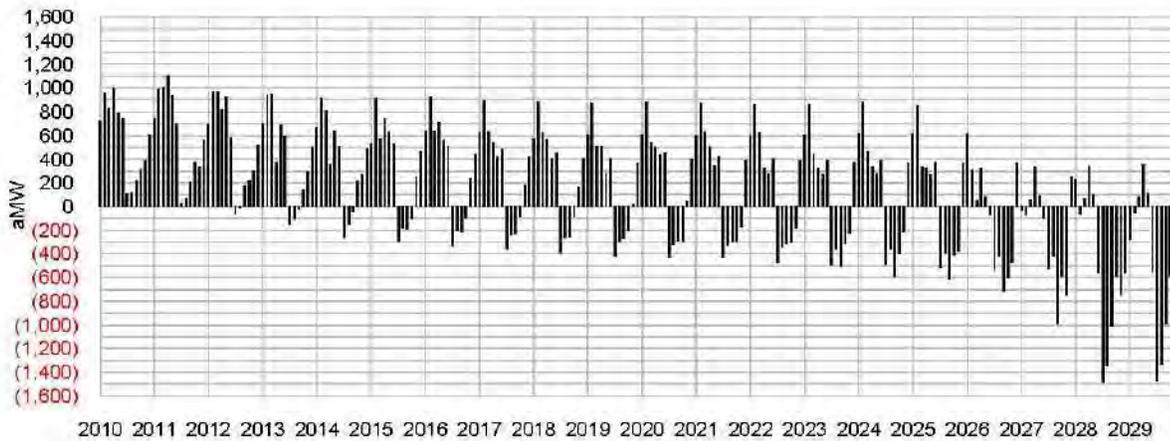
Monthly Average Energy	2024												2025											
	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
<b>Load and Resource Balance</b>																								
Load Forecast (70th%)—Aug 2009	(2,259)	(2,062)	(1,877)	(1,851)	(2,083)	(2,638)	(3,044)	(2,817)	(2,287)	(1,851)	(2,034)	(2,350)	(2,263)	(2,109)	(1,893)	(1,806)	(2,101)	(2,604)	(3,092)	(2,851)	(2,312)	(1,911)	(2,056)	(2,378)
Existing DSM (Energy Efficiency)	289	272	189	185	203	218	219	214	196	181	180	181	192	191	192	198	216	232	233	227	208	193	193	192
Load Forecast (70th%) w/Existing DSM	(2,071)	(1,890)	(1,698)	(1,666)	(1,880)	(2,420)	(2,827)	(2,604)	(2,091)	(1,709)	(1,855)	(2,170)	(2,078)	(1,918)	(1,702)	(1,608)	(1,885)	(2,433)	(2,849)	(2,624)	(2,104)	(1,718)	(1,863)	(2,186)
<b>Existing Resources</b>																								
Coal (w/Curtailment)	937	937	403	0	180	898	934	934	374	184	526	934	937	937	285	0	180	898	934	934	374	184	374	934
Hydro (70th%)—HCC	673	561	542	684	835	654	463	365	411	416	304	468	672	576	524	683	830	638	462	364	410	414	364	468
Hydro (70th%)—Other	218	264	241	242	326	327	237	233	227	218	208	207	217	264	241	242	319	323	236	232	226	218	207	206
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro (70th%)	890	825	783	926	1,154	960	700	598	638	635	512	675	889	869	764	924	1,152	961	698	596	636	632	572	674
CSPP (PURPA)	102	118	125	144	184	194	180	109	100	135	114	120	102	118	125	144	184	194	189	109	100	135	114	120
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	34	33	34	35	30	37	37	33	29	35	32	44	34	33	34	35	30	37	37	33	29	35	32	44
Raft River Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
PPL Montana - Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Purchase Agreements	44	43	44	45	40	47	47	43	39	45	42	54	44	43	44	45	40	47	47	43	39	45	42	54
Firm Pacific NW Import Capability (Actuals Through Sept 2010)	339	376	445	387	336	219	99	169	165	234	351	295	330	376	445	387	336	219	99	169	165	234	351	295
Gas Peakers	223	0	0	0	0	231	233	242	0	0	0	224	233	0	0	0	0	221	233	233	0	0	0	233
<b>Existing Resource Subtotal</b>	<b>2,535</b>	<b>2,329</b>	<b>1,800</b>	<b>1,501</b>	<b>1,894</b>	<b>2,569</b>	<b>2,194</b>	<b>2,155</b>	<b>1,376</b>	<b>1,236</b>	<b>1,606</b>	<b>2,301</b>	<b>2,534</b>	<b>2,344</b>	<b>1,863</b>	<b>1,500</b>	<b>1,892</b>	<b>2,550</b>	<b>2,192</b>	<b>2,144</b>	<b>1,374</b>	<b>1,293</b>	<b>1,454</b>	<b>2,309</b>
<b>Monthly Surplus/Deficit</b>	<b>465</b>	<b>426</b>	<b>102</b>	<b>(164)</b>	<b>14</b>	<b>149</b>	<b>(634)</b>	<b>(449)</b>	<b>(716)</b>	<b>(473)</b>	<b>(249)</b>	<b>126</b>	<b>456</b>	<b>426</b>	<b>(39)</b>	<b>(168)</b>	<b>8</b>	<b>118</b>	<b>(657)</b>	<b>(480)</b>	<b>(730)</b>	<b>(485)</b>	<b>(409)</b>	<b>123</b>
<b>2009 IRP Resources</b>																								
2012 Wind RFP	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
Langley Gulch	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
<b>Remaining Monthly Surplus/Deficit</b>	<b>802</b>	<b>763</b>	<b>439</b>	<b>173</b>	<b>352</b>	<b>487</b>	<b>(216)</b>	<b>(111)</b>	<b>(378)</b>	<b>(136)</b>	<b>88</b>	<b>463</b>	<b>794</b>	<b>763</b>	<b>299</b>	<b>169</b>	<b>345</b>	<b>455</b>	<b>(320)</b>	<b>(142)</b>	<b>(393)</b>	<b>(147)</b>	<b>(72)</b>	<b>461</b>
<b>2009 IRP DSM</b>																								
Industrial	59	59	59	59	59	52	52	52	51	50	50	51	54	54	54	54	54	54	56	56	54	54	55	54
Commercial	22	22	22	22	22	23	23	23	22	22	22	22	24	24	24	24	24	24	25	25	24	24	24	24
Residential	23	23	23	23	23	20	20	20	23	23	23	23	24	24	24	24	24	24	22	21	20	20	20	21
Total New DSM Average Energy	95	95	95	95	95	95	95	95	96	95	95	96	103	103	103	103	103	103	103	103	103	103	104	103
<b>Remaining Monthly Surplus/Deficit</b>	<b>897</b>	<b>858</b>	<b>535</b>	<b>268</b>	<b>447</b>	<b>582</b>	<b>(201)</b>	<b>(16)</b>	<b>(282)</b>	<b>(41)</b>	<b>184</b>	<b>559</b>	<b>897</b>	<b>866</b>	<b>402</b>	<b>272</b>	<b>448</b>	<b>558</b>	<b>(217)</b>	<b>(80)</b>	<b>(290)</b>	<b>(45)</b>	<b>32</b>	<b>564</b>
<b>2009 IRP Resources</b>																								
2015 Boardman-Hemingway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (40 MW)	6	31	12	0	14	17	0	0	0	0	0	3	6	31	12	0	14	17	0	0	0	0	0	3
2017 Boardman-Hemingway Transmission	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2020 Large Aero (100 MW)	56	0	0	0	0	56	56	56	0	0	0	54	56	0	0	0	0	56	56	56	0	0	0	56
2022 Wind (100 MW)	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2024 Large Aero (2 X 100 MW)	112	0	0	0	0	112	112	112	0	0	0	108	112	0	0	0	0	112	112	112	0	0	0	112
2025 Gateway West Transmission													100	100	100	100	100	100	100	100	100	100	100	100
2026 Large Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	<b>1,529</b>	<b>1,346</b>	<b>1,004</b>	<b>725</b>	<b>918</b>	<b>1,223</b>	<b>423</b>	<b>615</b>	<b>175</b>	<b>416</b>	<b>641</b>	<b>1,180</b>	<b>1,628</b>	<b>1,454</b>	<b>971</b>	<b>829</b>	<b>1,019</b>	<b>1,299</b>	<b>508</b>	<b>685</b>	<b>267</b>	<b>512</b>	<b>589</b>	<b>1,292</b>

Monthly Average Energy	2026												2027											
	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27	Apr-27	May-27	Jun-27	Jul-27	Aug-27	Sep-27	Oct-27	Nov-27	Dec-27
<b>Load and Resource Balance</b>																								
Load Forecast (70th%)—Aug 2009	(2,283)	(2,120)	(1,905)	(1,877)	(2,118)	(2,092)	(3,118)	(2,885)	(2,336)	(1,928)	(2,071)	(2,387)	(2,283)	(2,119)	(1,906)	(1,878)	(2,123)	(2,093)	(3,134)	(2,899)	(2,340)	(1,934)	(2,076)	(2,394)
Existing DSM (Energy Efficiency)	203	203	203	210	231	246	247	241	214	205	205	208	216	214	214	222	245	260	261	255	233	218	215	215
Load Forecast (70th%) w/Existing DSM	(2,080)	(1,918)	(1,702)	(1,668)	(1,887)	(2,446)	(2,871)	(2,644)	(2,122)	(1,723)	(1,866)	(2,183)	(2,067)	(1,905)	(1,692)	(1,656)	(1,878)	(2,443)	(2,873)	(2,644)	(2,113)	(1,716)	(1,861)	(2,179)
<b>Existing Resources</b>																								
Coal (w/Curtailment)	937	395	0	0	0	463	934	934	284	0	284	934	285	0	0	0	0	463	934	934	5	0	0	816
Hydro (70th%)—HCC	670	578	519	681	832	637	461	363	409	412	364	468	669	576	519	680	831	636	459	362	408	402	364	468
Hydro (70th%)—Other	217	293	240	242	318	321	235	291	226	217	207	216	217	293	240	241	317	320	235	291	225	217	206	210
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro (70th%)	887	871	759	923	1,151	958	696	594	634	629	571	678	886	869	759	921	1,149	956	694	592	633	618	571	678
CSPP (PURPA)	102	118	125	144	184	194	180	169	100	139	114	120	102	118	125	144	184	194	180	169	100	139	114	120
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	84	83	34	35	30	37	37	33	29	35	32	44	34	33	34	35	30	37	37	33	29	35	32	44
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PPL Montana - Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Power Purchase Agreements	44	43	44	45	40	47	47	43	39	45	42	54	44	43	44	45	40	47	47	43	39	45	42	54
Firm Pacific NW Import Capability (Actuals Through Sept 2010)	330	376	445	387	336	219	99	169	165	234	351	295	330	376	445	387	336	219	99	169	165	234	351	295
Gas Peakers	223	0	0	0	0	240	223	223	0	0	0	223	224	0	0	0	0	260	242	223	0	0	0	223
Existing Resource Subtotal	2,532	1,804	1,373	1,499	1,711	2,121	2,180	2,142	1,282	1,047	1,362	2,313	1,870	1,407	1,373	1,487	1,709	2,119	2,196	2,140	1,002	1,096	1,078	2,195
Monthly Surplus/Deficit	452	(114)	(328)	(169)	(177)	(325)	(682)	(501)	(835)	(676)	(504)	130	(197)	(498)	(320)	(161)	(170)	(324)	(677)	(504)	(1,111)	(680)	(782)	17
<b>2009 IRP Resources</b>																								
2012 Wind RFP	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
Langley Gulch	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Remaining Monthly Surplus/Deficit	790	223	9	168	161	13	(345)	(164)	(497)	(339)	(167)	467	140	(160)	18	177	168	14	(339)	(167)	(774)	(343)	(445)	354
<b>2009 IRP DSM</b>																								
Industrial	59	58	59	58	59	61	61	58	58	59	59	63	62	62	62	62	63	65	65	63	63	63	63	63
Commercial	26	26	26	26	27	27	27	26	26	27	26	29	29	29	28	28	29	30	30	29	29	29	29	29
Residential	26	26	26	26	26	23	23	26	26	26	26	28	28	28	28	28	27	24	24	26	26	28	28	28
Total New DSM Average Energy	111	111	111	111	112	111	111	111	111	110	112	111	119	119	118	118	120	119	119	119	119	119	119	119
Remaining Monthly Surplus/Deficit	901	334	120	279	272	123	(234)	(93)	(387)	(228)	(55)	578	260	(42)	136	295	288	133	(220)	(48)	(655)	(224)	(326)	473
<b>2009 IRP Resources</b>																								
2015 Boardman-Hemingway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (43 MW)	6	31	12	0	14	17	0	0	0	0	3	6	31	12	0	14	17	0	0	0	0	0	0	3
2017 Boardman-Hemingway Transmission	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2020 Large Aero (100 MW)	56	0	0	0	0	58	56	56	0	0	0	56	54	0	0	0	0	58	58	56	0	0	0	56
2022 Wind (100 MW)	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2024 Large Aero (2 X 100 MW)	112	0	0	0	0	116	112	112	0	0	112	108	0	0	0	0	116	116	112	0	0	0	112	
2025 Gateway West Transmission	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2026 Large Aero (2 X 100 MW)	112	0	0	0	0	116	112	112	0	0	112	108	0	0	0	0	116	116	112	0	0	0	112	
2027 Wind (2 X 200 MW)													64	64	64	64	64	64	64	64	64	64	64	64
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
Monthly Surplus/Deficit	1,744	923	689	836	843	987	603	783	170	329	502	1,418	1,156	611	769	916	923	1,060	691	852	(34)	397	295	1,377

Monthly Average Energy	2028												2029											
	Jan-28	Feb-28	Mar-28	Apr-28	May-28	Jun-28	Jul-28	Aug-28	Sep-28	Oct-28	Nov-28	Dec-28	Jan-29	Feb-29	Mar-29	Apr-29	May-29	Jun-29	Jul-29	Aug-29	Sep-29	Oct-29	Nov-29	Dec-29
<b>Load and Resource Balance</b>																								
<b>Load Forecast (70th%)—Aug 2009</b>	(2,231)	(2,115)	(1,912)	(1,885)	(2,132)	(2,717)	(3,154)	(2,919)	(2,359)	(1,946)	(2,085)	(2,334)	(2,280)	(2,115)	(1,907)	(1,881)	(2,129)	(2,716)	(3,155)	(2,920)	(2,399)	(1,945)	(2,083)	(2,397)
Existing DSM (Energy Efficiency)	228	226	225	235	257	274	275	269	245	239	227	228	239	238	237	247	270	288	284	282	260	251	239	240
<b>Load Forecast (70th%) w/Existing DSM</b>	(2,003)	(1,889)	(1,687)	(1,650)	(1,875)	(2,443)	(2,879)	(2,650)	(2,114)	(1,715)	(1,858)	(2,106)	(2,042)	(1,877)	(1,670)	(1,634)	(1,859)	(2,428)	(2,866)	(2,637)	(2,139)	(1,704)	(1,844)	(2,157)
<b>Existing Resources</b>																								
<b>Coal (w/Curtailment)</b>	537	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydro (70th%)—HCC	668	570	523	679	830	635	658	369	407	400	364	468	667	576	534	678	829	634	457	399	406	398	364	468
Hydro (70th%)—Other	216	292	239	241	317	320	284	229	225	216	206	210	216	292	239	241	316	319	233	229	224	216	205	209
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro (70th%)</b>	884	862	762	920	1,147	954	692	599	631	616	570	677	883	868	753	918	1,145	953	690	588	629	613	569	677
<b>CSPP (PURPA)</b>	192	118	125	144	184	194	180	169	160	139	114	120	102	118	125	144	184	194	180	169	160	139	114	120
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	34	33	34	35	30	37	37	33	29	35	32	44	34	33	34	35	30	37	37	33	29	35	32	44
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PPL Montana - Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Power Purchase Agreements</b>	44	43	44	45	40	47	47	43	39	45	42	54	44	43	44	45	40	47	47	43	39	45	42	54
<b>Firm Pacific NW Import Capability</b> (Actuals Through Sept 2010)	330	376	445	387	336	219	99	169	165	234	351	295	330	376	445	387	336	219	99	169	165	234	351	295
<b>Gas Peakers</b>	224	0	0	0	0	240	224	242	0	0	0	226	233	0	0	0	0	240	224	242	0	0	0	224
<b>Existing Resource Subtotal</b>	2,120	1,400	1,376	1,485	1,707	1,655	1,242	1,213	995	1,034	1,078	1,370	1,591	1,406	1,367	1,494	1,705	1,653	1,240	1,211	993	1,031	1,077	1,366
<b>Monthly Surplus/Deficit</b>	57	(489)	(311)	(155)	(168)	(789)	(1,637)	(1,434)	(1,119)	(682)	(781)	(787)	(451)	(471)	(303)	(140)	(154)	(776)	(1,626)	(1,426)	(1,107)	(673)	(767)	(787)
<b>2006 IRP Resources</b>																								
2012 Wind PFP	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
Langley Gulch	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251	251
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Geothermal	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
<b>Remaining Monthly Surplus/Deficit</b>	394	(152)	27	183	169	(451)	(1,300)	(1,100)	(782)	(344)	(443)	(459)	(114)	(134)	35	198	184	(439)	(1,288)	(1,089)	(709)	(336)	(430)	(450)
<b>2009 IRP DSM</b>																								
Industrial	67	66	66	67	67	69	69	69	67	67	67	67	67	66	66	67	67	69	69	67	67	66	67	67
Commercial	31	31	31	31	31	32	32	32	31	31	31	31	31	31	31	31	31	32	32	31	31	31	31	31
Residential	29	29	30	29	29	26	26	26	26	26	26	26	26	26	30	29	29	26	26	26	29	30	29	29
<b>Total New DSM Average Energy</b>	127	127	127	127	128	127	127	127	127	127	127	127	127	127	127	127	128	127	127	127	128	127	127	128
<b>Remaining Monthly Surplus/Deficit</b>	522	(25)	153	310	297	(324)	(1,173)	(973)	(655)	(217)	(316)	(331)	14	(7)	161	325	311	(311)	(1,161)	(962)	(641)	(209)	(303)	(322)
<b>2009 IRP Resources</b>																								
2015 Boardman-Hemingway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (40 MW)	6	31	32	0	14	17	0	0	0	0	3	6	31	32	0	14	17	0	0	0	0	0	0	3
2017 Boardman-Hemingway Transmission	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2020 Large Aero (100 MW)	54	0	0	0	0	58	54	58	0	0	54	56	0	0	0	0	58	54	58	0	0	0	54	
2022 Wind (100 MW)	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2024 Large Aero (2 X 100 MW)	108	0	0	0	0	116	108	116	0	0	108	112	0	0	0	0	116	108	116	0	0	0	108	
2025 Gateway West Transmission	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2026 Large Aero (2 X 100 MW)	108	0	0	0	0	116	108	116	0	0	108	112	0	0	0	0	116	108	116	0	0	0	108	
2027 Wind (2 X 200 MW)	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
2028 Large Aero (4 X 100 MW)	215	0	0	0	0	231	215	232	0	0	215	224	0	0	0	0	231	215	232	0	0	0	215	
2029 Large Aero (5 X 100 MW)													280	0	0	0	289	289	290	0	0	0	289	
<b>Monthly Surplus/Deficit</b>	1,633	627	786	931	932	834	(69)	171	(34)	404	305	777	1,424	645	794	946	946	1,136	213	472	(20)	412	319	1,055

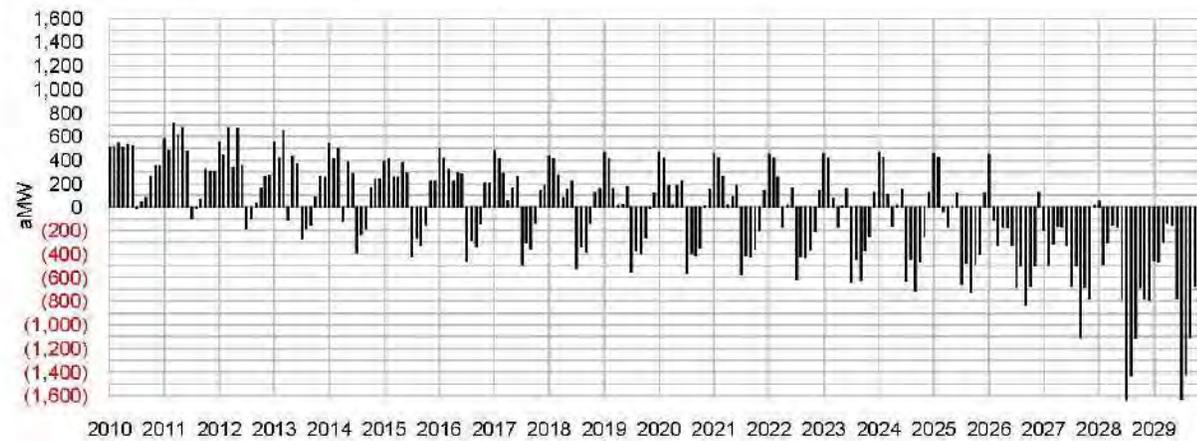
### Monthly Average Energy Surpluses and Deficits with Existing Resources

(50th Percentile Water and 50th Percentile Load)



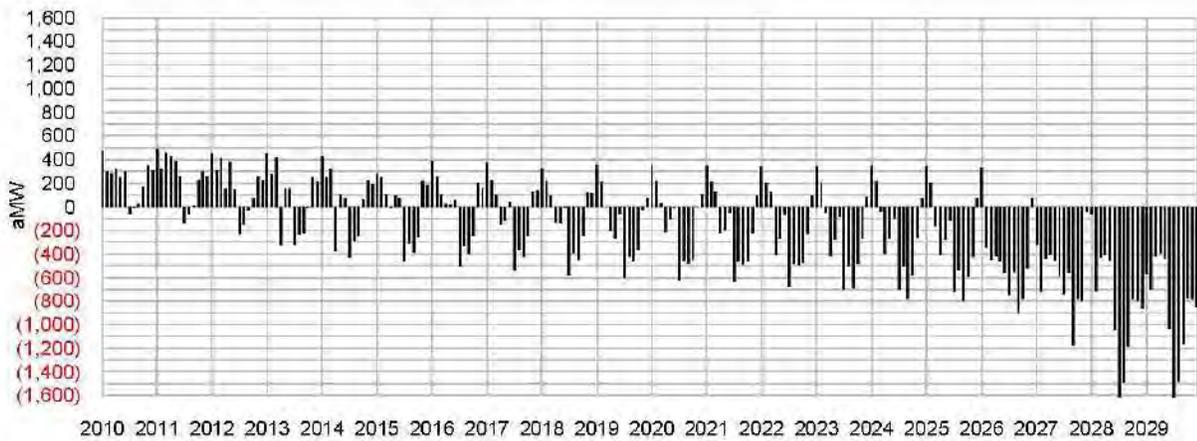
### Monthly Average Energy Surpluses and Deficits with Existing Resources

(70th Percentile Water and 70th Percentile Load)

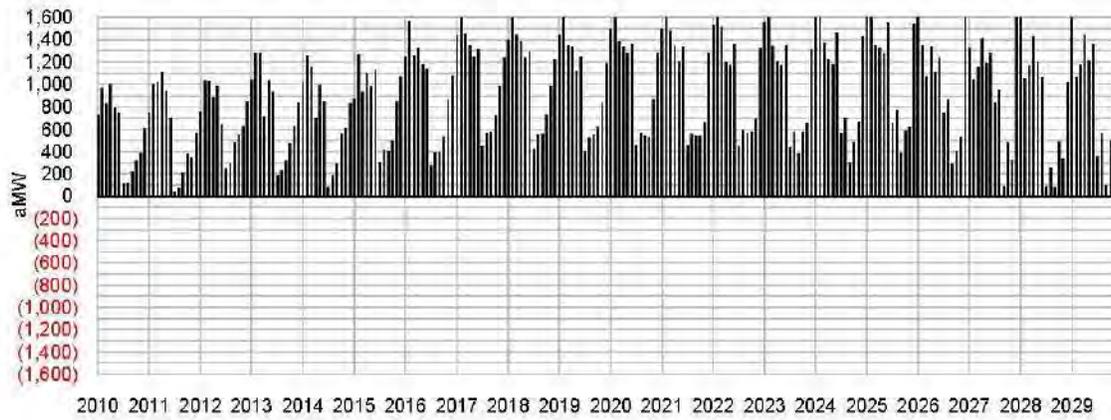


### Monthly Average Energy Surpluses and Deficits with Existing Resources

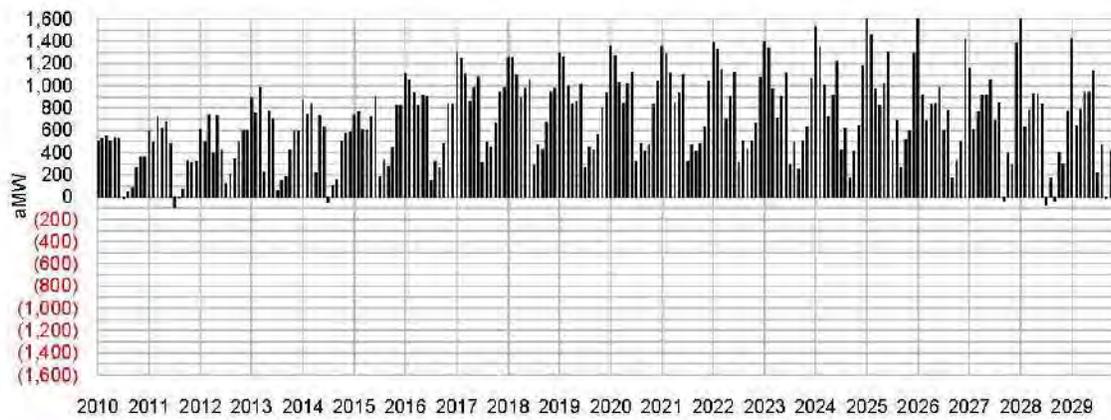
(90th Percentile Water and 70th Percentile Load)



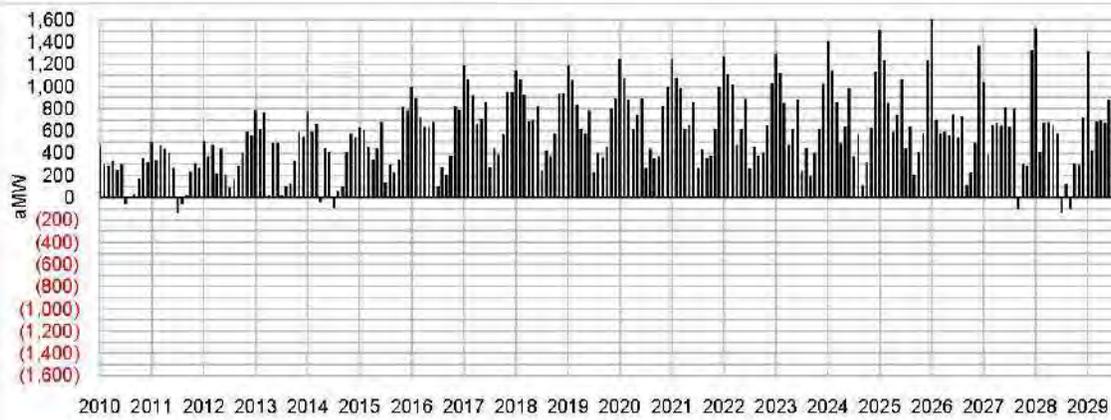
**Monthly Average Energy Surpluses and Deficits with 2009 IRP Resources**  
 (50th Percentile Water and 50th Percentile Load)



**Monthly Average Energy Surpluses and Deficits with 2009 IRP Resources**  
 (70th Percentile Water and 70th Percentile Load)



**Monthly Average Energy Surpluses and Deficits with 2009 IRP Resources**  
 (90th Percentile Water and 70th Percentile Load)



Peak-Hour	2010												2011											
	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
<b>Load and Resource Balance</b>																								
<b>Load Forecast (95th%)—w/EE DSM</b>	(2,455)	(2,402)	(2,103)	(1,871)	(2,761)	(3,318)	(3,460)	(3,139)	(2,978)	(2,988)	(2,302)	(2,695)	(2,559)	(2,486)	(2,191)	(1,548)	(2,846)	(3,395)	(3,560)	(3,185)	(3,027)	(2,133)	(2,353)	(2,733)
Existing DSM (Irrigation Timer)	0	0	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	0
Existing DSM (AC Cool Cradl)	0	0	0	0	0	51	51	51	0	0	0	0	0	0	0	0	0	51	51	51	0	0	0	0
Total Existing Demand Response	0	0	0	0	0	59	59	51	0	0	0	0	0	0	0	0	0	57	57	51	0	0	0	0
<b>Peak-Hour Load Forecast w/Existing DSM</b>	(2,455)	(2,402)	(2,103)	(1,871)	(2,761)	(3,259)	(3,401)	(3,088)	(2,978)	(2,988)	(2,302)	(2,695)	(2,559)	(2,486)	(2,191)	(1,548)	(2,846)	(3,338)	(3,503)	(3,134)	(3,027)	(2,133)	(2,353)	(2,733)
<b>Existing Resources</b>																								
<b>Coal (w/Curtailment)</b>	903	903	963	676	621	963	967	967	967	967	967	967	967	967	967	680	730	967	972	972	972	972	972	972
Hydro (90th%)—HCC	1,131	945	670	690	1,181	1,105	1,040	945	1,035	935	606	785	1,107	900	670	690	1,179	1,110	1,035	945	1,090	780	609	785
Hydro (90th%)—Other	208	297	196	213	289	306	246	236	217	210	198	204	203	206	196	213	289	306	246	236	216	210	198	204
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro</b>	1,339	1,152	866	903	1,470	1,411	1,328	1,181	1,252	1,045	798	989	1,310	1,106	866	903	1,467	1,416	1,328	1,181	1,306	990	798	989
CSPP (PURPA)	43	42	46	70	121	123	133	124	102	82	58	55	52	51	54	73	129	138	141	132	110	82	58	55
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
FPL Montana—Jefferson (83 MW)	0	0	0	0	0	83	83	83	0	0	0	0	0	0	0	0	0	83	83	83	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	25	25	0	0	0	0	0	0	0	0	0	0	25	25	0	0	0	0
<b>Total Power Purchase Agreements</b>	15	15	15	15	15	98	223	223	15	15	15	15	15	15	15	15	15	98	173	173	15	15	15	15
Firm Pacific NW Import Capability	99	229	212	265	414	302	122	255	291	0	535	443	216	346	288	270	406	287	165	247	287	73	530	440
<b>Gas Peakers</b>	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416
<b>Subtotal</b>	2,871	2,816	2,518	2,286	3,057	3,321	3,190	3,166	3,042	2,526	2,789	2,885	2,976	2,901	2,606	2,363	3,223	3,322	3,135	3,121	3,106	2,548	2,790	2,887
<b>Monthly Surplus/Deficit</b>	0	0	0	0	0	0	(212)	0	0	0	0	0	0	0	0	0	0	(17)	(368)	(13)	0	0	0	0
<b>2006 IRP Resources</b>	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
2012 Wind RFP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Langley Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Remaining Monthly Surplus/Deficit</b>	0	0	0	0	0	0	(212)	0	0	0	0	0	0	0	0	0	0	0	(17)	(368)	(13)	0	0	0
<b>2009 IRP DSM</b>	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
Commercial (FlexPeak)	0	0	0	0	0	40	40	40	0	0	0	0	0	0	0	0	0	45	45	45	0	0	0	0
Irrigation Peak Rewards	0	0	0	0	0	212	212	0	0	0	0	0	0	0	0	0	0	244	244	0	0	0	0	0
Energy Efficiency Peak Reduction	3	3	3	3	3	3	3	3	3	3	3	3	7	7	7	7	7	7	7	7	7	7	7	7
<b>Total New DSM Peak Reduction</b>	3	3	3	3	3	254	254	42	3	3	3	3	7	7	7	7	7	296	296	52	7	7	7	7
<b>Remaining Monthly Surplus/Deficit</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(71)	0	0	0	0	0
<b>2009 IRP Resources</b>	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
2015 Boardman-Hemingway Transmission																								
2015 Shoshone Falls Upgrade (49 MW)																								
2017 Boardman-Hemingway Transmission																								
2020 Large Aero (100 MW)																								
2022 Wind (100 MW)																								
2020 Large Aero (2 X 100 MW)																								
2025 Gateway West Transmission																								
2020 Large Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2020 Large Aero (4 X 100 MW)																								
2020 Large Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(71)	0	0	0	0

Peak-Hour	2012												2013											
	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
<b>Load and Resource Balance</b>																								
<b>Load Forecast (95th%)— w/EE DSM</b>	(2,600)	(2,487)	(2,225)	(1,964)	(2,891)	(3,495)	(3,636)	(3,242)	(3,059)	(2,168)	(2,391)	(2,756)	(2,560)	(2,496)	(2,203)	(1,922)	(2,915)	(3,541)	(3,725)	(3,295)	(3,127)	(2,177)	(2,389)	(2,703)
Existing DSM (Irrigation Timer)	0	0	0	0	0	5	6	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	0
Existing DSM (AG Cap. Credit)	0	0	0	0	0	51	51	0	0	0	0	0	0	0	0	0	0	51	51	51	0	0	0	0
Total Existing Demand Response	0	0	0	0	0	57	57	51	0	0	0	0	0	0	0	0	0	57	57	51	0	0	0	0
<b>Peak-Hour Load Forecast w/Existing DSM</b>	(2,600)	(2,487)	(2,225)	(1,964)	(2,891)	(3,440)	(3,579)	(3,192)	(3,059)	(2,168)	(2,391)	(2,756)	(2,560)	(2,496)	(2,203)	(1,922)	(2,915)	(3,484)	(3,668)	(3,246)	(3,127)	(2,177)	(2,389)	(2,703)
<b>Existing Resources</b>																								
<b>Coal (w/Curtailment)</b>	972	972	933	663	751	972	978	978	978	798	978	978	978	978	907	0	744	978	983	983	789	670	982	982
Hydro (90th%)—HCC	1,106	897	670	690	1,170	1,056	1,035	945	1,630	780	510	785	1,116	870	670	670	1,170	1,060	1,034	945	1,035	780	600	870
Hydro (90th%)—Other	203	206	196	213	289	306	245	235	216	210	198	203	202	206	195	213	289	306	245	234	216	210	198	203
Sho-Ean Water Lease	0	0	0	0	0	0	48	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0
<b>Total Hydro</b>	1,308	1,103	866	903	1,459	1,363	1,328	1,180	1,806	990	708	988	1,319	1,076	865	883	1,459	1,366	1,327	1,179	1,251	990	798	1,073
CSPP (PURPA)	52	51	54	79	129	138	141	132	110	82	58	55	52	51	54	79	129	138	141	132	110	82	58	55
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
FPL Montana—Jefferson (83 MW)	0	0	0	0	0	0	83	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Power Purchase Agreements</b>	15	15	15	15	15	15	98	98	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Firm Pacific NW Import Capability	254	348	317	160	398	263	97	240	284	107	528	437	197	377	290	254	389	248	87	234	278	106	525	443
<b>Gas Peakers</b>	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416
<b>Subtotal</b>	3,017	2,904	2,601	2,236	3,165	3,165	3,059	3,045	3,109	2,408	2,704	2,889	2,877	2,913	2,547	1,647	3,151	3,161	2,969	2,960	2,859	2,279	2,795	2,985
<b>Monthly Surplus/Deficit</b>	0	0	0	0	0	(274)	(521)	(147)	0	0	0	0	0	0	0	(276)	0	(324)	(700)	(285)	(268)	0	0	0
<b>2006 IRP Resources</b>	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
2012 Wind RFP	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Langley Gulch	0	0	0	0	0	0	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Geothermal	0	0	0	0	0	0	0	0	0	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Remaining Monthly Surplus/Deficit</b>	0	0	0	0	0	(266)	(213)	0	0	0	0	0	0	0	0	0	0	0	(373)	0	0	0	0	0
<b>2009 IRP DSM</b>	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Commercial (FlowPeak)	0	0	0	0	0	57	57	57	0	0	0	0	0	0	0	0	0	57	57	57	0	0	0	0
Irrigation Peak Rewards	0	0	0	0	0	254	254	0	0	0	0	0	0	0	0	0	0	254	254	0	0	0	0	0
Energy Efficiency Peak Reduction	12	12	12	12	12	12	12	12	12	12	12	12	12	18	18	18	18	18	18	18	18	18	18	18
<b>Total New DSM Peak Reduction</b>	12	12	12	12	12	323	323	69	12	12	12	12	12	18	18	18	18	329	329	75	18	18	18	18
<b>Remaining Monthly Surplus/Deficit</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(44)	0	0	0	0	0
<b>2009 IRP Resources</b>	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
2013 Boardman-Hemingway Transmission																								
2015 Shoshone Falls Upgrade (49 MW)																								
2017 Boardman-Hemingway Transmission																								
2020 Large Aero (100 MW)																								
2022 Wind (100 MW)																								
2024 Large Aero (2 X 100 MW)																								
2025 Gateway West Transmission																								
2026 Large Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(44)	0	0	0	0	0

Peak-Hour	2014												2015																											
	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15																
<b>Load and Resource Balance</b>																																								
Load Forecast (95th%)—w/EE DSM	(2,584)	(2,519)	(2,230)	(1,944)	(2,946)	(3,593)	(3,789)	(3,359)	(3,169)	(2,193)	(2,415)	(2,748)	(2,583)	(2,509)	(2,226)	(1,931)	(2,970)	(3,640)	(3,843)	(3,396)	(3,211)	(2,200)	(2,421)	(2,742)																
Existing DSM (Irrigation Timer)	0	0	0	0	0	6	6	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	0																
Existing DSM (AC Cool Credit)	0	0	0	0	0	21	21	21	0	0	0	0	0	0	0	0	0	21	21	21	0	0	0	0																
Total Existing Demand Response	0	0	0	0	0	27	27	21	0	0	0	0	0	0	0	0	0	27	27	42	0	0	0	0																
<b>Peak-Hour Load Forecast w/Existing DSM</b>	<b>(2,584)</b>	<b>(2,519)</b>	<b>(2,230)</b>	<b>(1,944)</b>	<b>(2,946)</b>	<b>(3,566)</b>	<b>(3,732)</b>	<b>(3,308)</b>	<b>(3,169)</b>	<b>(2,193)</b>	<b>(2,415)</b>	<b>(2,748)</b>	<b>(2,583)</b>	<b>(2,509)</b>	<b>(2,226)</b>	<b>(1,931)</b>	<b>(2,970)</b>	<b>(3,583)</b>	<b>(3,786)</b>	<b>(3,346)</b>	<b>(3,211)</b>	<b>(2,200)</b>	<b>(2,421)</b>	<b>(2,742)</b>																
<b>Existing Resources</b>																																								
Coal (w/Curtailment)	983	983	803	0	728	913	983	983	789	670	983	983	982	982	585	676	725	936	982	982	671	470	982	982																
Hydro (90th%)—HCC	1,122	845	670	585	1,135	1,056	1,005	945	1,035	595	600	870	1,098	845	670	585	1,187	1,104	1,035	945	1,035	780	600	870																
Hydro (90th%)—Other	202	205	195	213	288	305	243	232	215	209	197	262	201	204	194	212	287	296	240	230	214	209	197	201																
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
<b>Total Hydro</b>	<b>1,324</b>	<b>1,050</b>	<b>865</b>	<b>798</b>	<b>1,423</b>	<b>1,371</b>	<b>1,248</b>	<b>1,177</b>	<b>1,250</b>	<b>804</b>	<b>797</b>	<b>1,072</b>	<b>1,299</b>	<b>1,049</b>	<b>864</b>	<b>797</b>	<b>1,473</b>	<b>1,406</b>	<b>1,275</b>	<b>1,175</b>	<b>1,249</b>	<b>989</b>	<b>797</b>	<b>1,071</b>																
CSPP (PURPA)	52	51	54	74	129	138	141	132	116	82	58	55	52	51	54	74	129	138	141	132	110	82	58	55																
<b>Power Purchase Agreements</b>																																								
Elkhorn Valley Wind	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5																
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																
PPL Montana—Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
<b>Total Power Purchase Agreements</b>	<b>15</b>																																							
Firm Pacifi NW Import Capability	222	444	523	356	386	237	79	218	276	308	523	439	236	432	517	223	381	242	71	196	267	131	525	439																
Gas Peakers	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416																
<b>Subtotal</b>	<b>3,011</b>	<b>2,959</b>	<b>2,676</b>	<b>1,663</b>	<b>3,090</b>	<b>3,090</b>	<b>2,882</b>	<b>2,941</b>	<b>2,856</b>	<b>2,295</b>	<b>2,793</b>	<b>2,980</b>	<b>3,000</b>	<b>2,944</b>	<b>2,452</b>	<b>2,206</b>	<b>3,139</b>	<b>3,146</b>	<b>2,900</b>	<b>2,916</b>	<b>2,728</b>	<b>2,103</b>	<b>2,793</b>	<b>2,978</b>																
<b>Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(281)</b>	<b>0</b>	<b>(447)</b>	<b>(850)</b>	<b>(367)</b>	<b>(313)</b>	<b>0</b>	<b>(437)</b>	<b>(886)</b>	<b>(430)</b>	<b>(482)</b>	<b>(97)</b>	<b>0</b>	<b>0</b>																							
<b>2006 IRP Resources</b>																																								
2012 Wind RFP	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8																
Langley Gulch	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300																
Geothermal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20																
Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
<b>Remaining Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(119)</b>	<b>(522)</b>	<b>(40)</b>	<b>0</b>	<b>(110)</b>	<b>(554)</b>	<b>(102)</b>	<b>(156)</b>	<b>0</b>	<b>0</b>	<b>0</b>																								
<b>2009 IRP DSM</b>																																								
Commercial (FlowPeak)	0	0	0	0	0	57	57	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
Irrigation Peak Rewards	0	0	0	0	0	254	254	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
Energy Efficiency Peak Reduction	24	24	24	24	24	24	24	24	24	24	25	24	24	24	24	24	24	24	24	24	24	24	24	24																
<b>Total New DSM Peak Reduction</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>335</b>	<b>335</b>	<b>81</b>	<b>24</b>	<b>24</b>	<b>25</b>	<b>24</b>																												
<b>Remaining Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(188)</b>	<b>0</b>																																
<b>2009 IRP Resources</b>																																								
2015 Boardman—Hemingsway Transmission																			250	250	250	250	250	250	250															
2015 Shoshone Falls Upgrade (48 MW)																																								
2017 Boardman—Hemingsway Transmission																																								
2020 Large Aero (100 MW)																																								
2022 Wind (100 MW)																																								
2024 Large Aero (2 X 100 MW)																																								
2025 Gateway West Transmission																																								
2026 Large Aero (2 X 100 MW)																																								
2027 Wind (2 X 200 MW)																																								
2028 Large Aero (4 X 100 MW)																																								
2029 Large Aero (5 X 100 MW)																																								
<b>Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(188)</b>	<b>0</b>																																

Peak-Hour	2016												2017											
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
<b>Load and Resource Balance</b>																								
Load Forecast (95th%)—w/EE DSM	(2,580)	(2,507)	(2,228)	(1,924)	(2,093)	(3,686)	(3,995)	(3,437)	(3,252)	(2,207)	(2,430)	(2,745)	(2,578)	(2,504)	(2,231)	(1,920)	(3,018)	(3,733)	(3,549)	(3,480)	(3,293)	(2,215)	(2,439)	(2,751)
Existing DSM (Irrigation Timer)	0	0	0	0	0	6	6	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	0
Existing DSM (AC Cool Credit)	0	0	0	0	0	51	51	51	0	0	0	0	0	0	0	0	0	51	51	51	0	0	0	0
Total Existing Demand Response	0	0	0	0	0	57	57	51	0	0	0	0	0	0	0	0	0	57	57	51	0	0	0	0
<b>Peak-Hour Load Forecast w/Existing DSM</b>	<b>(2,580)</b>	<b>(2,507)</b>	<b>(2,228)</b>	<b>(1,924)</b>	<b>(2,093)</b>	<b>(3,629)</b>	<b>(3,938)</b>	<b>(3,386)</b>	<b>(3,252)</b>	<b>(2,207)</b>	<b>(2,430)</b>	<b>(2,745)</b>	<b>(2,578)</b>	<b>(2,504)</b>	<b>(2,231)</b>	<b>(1,920)</b>	<b>(3,018)</b>	<b>(3,676)</b>	<b>(3,498)</b>	<b>(3,429)</b>	<b>(3,293)</b>	<b>(2,215)</b>	<b>(2,439)</b>	<b>(2,751)</b>
<b>Existing Resources</b>																								
Coal (w/Curtailment)	980	980	586	602	635	936	980	980	671	470	980	980	980	980	586	560	543	936	980	980	671	470	908	980
Hydro (90th%)—HCC	1,115	835	595	780	1,181	1,117	1,035	945	1,035	780	600	870	1,117	845	585	785	1,184	1,060	1,005	945	1,085	780	600	870
Hydro (90th%)—Other	200	203	193	212	286	294	238	226	213	208	196	201	200	202	192	211	285	292	237	223	212	207	196	200
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro</b>	<b>1,315</b>	<b>1,038</b>	<b>778</b>	<b>992</b>	<b>1,467</b>	<b>1,411</b>	<b>1,273</b>	<b>1,171</b>	<b>1,248</b>	<b>988</b>	<b>796</b>	<b>1,071</b>	<b>1,317</b>	<b>1,047</b>	<b>777</b>	<b>996</b>	<b>1,469</b>	<b>1,353</b>	<b>1,242</b>	<b>1,168</b>	<b>1,297</b>	<b>987</b>	<b>796</b>	<b>1,070</b>
CSPP (PURPA)	52	51	50	79	129	138	141	132	110	82	58	55	52	51	50	79	129	138	141	132	110	82	58	55
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PPL Montana—Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Power Purchase Agreements</b>	<b>15</b>	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Firm Pacific NW Import Capability	219	451	400	259	376	229	65	190	265	341	524	440	215	431	404	0	370	219	58	182	262	150	524	440
Gas Peakers	216	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416
<b>Subtotal</b>	<b>2,997</b>	<b>2,951</b>	<b>2,249</b>	<b>2,368</b>	<b>3,038</b>	<b>3,144</b>	<b>2,891</b>	<b>2,905</b>	<b>2,725</b>	<b>2,112</b>	<b>2,790</b>	<b>2,977</b>	<b>2,980</b>	<b>2,825</b>	<b>2,237</b>	<b>2,060</b>	<b>2,927</b>	<b>3,061</b>	<b>2,898</b>	<b>2,879</b>	<b>2,756</b>	<b>2,105</b>	<b>2,701</b>	<b>2,960</b>
<b>Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(485)</b>	<b>(948)</b>	<b>(481)</b>	<b>(526)</b>	<b>(95)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(91)</b>	<b>(615)</b>	<b>(1,054)</b>	<b>(550)</b>	<b>(537)</b>	<b>(110)</b>	<b>0</b>	<b>0</b>
<b>2009 IRP Resources</b>																								
2012 Wind RFP	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Langley Gulch	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Geothermal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Geothermal	0	0	0	0	0	0	0	0	0	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>Remaining Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(158)</b>	<b>(620)</b>	<b>(154)</b>	<b>(189)</b>	<b>0</b>	0	0	0	0	0	0	0	<b>(267)</b>	<b>(707)</b>	<b>(203)</b>	<b>(190)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>2009 IRP DSM</b>																								
Commercial (File/Peak)	0	0	0	0	0	57	57	57	0	0	0	0	0	0	0	0	0	57	57	57	0	0	0	0
Irrigation Peak Rewards	0	0	0	0	0	25.4	25.4	0	0	0	0	0	0	0	0	0	0	25.4	25.4	0	0	0	0	0
Energy Efficiency Peak Reduction	38	37	37	37	38	37	37	37	38	38	38	37	44	44	44	44	45	44	44	44	44	44	44	45
<b>Total New DSM Peak Reduction</b>	<b>38</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>38</b>	<b>348</b>	<b>348</b>	<b>94</b>	<b>38</b>	<b>38</b>	<b>38</b>	<b>37</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>45</b>	<b>355</b>	<b>355</b>	<b>101</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>45</b>
<b>Remaining Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(272)</b>	<b>(60)</b>	<b>(161)</b>	<b>0</b>	0	0	0	0	0	0	0	<b>(352)</b>	<b>(192)</b>	<b>(145)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>2009 IRP Resources</b>																								
2015 Boardman-Hemingway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (49 MW)	2	2	0	0	3	10	0	0	0	0	0	1	2	2	0	0	3	16	0	0	0	0	0	1
2017 Boardman-Hemingway Transmission													175	175	175	175	175	175	175	175	175	175	175	175
2020 Larga Aero (100 MW)																								
2022 Wind (100 MW)																								
2024 Larga Aero (2 X 100 MW)																								
2025 Gateway West Transmission																								
2026 Larga Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2028 Larga Aero (4 X 100 MW)																								
2028 Larga Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(22)</b>	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Peak-Hour	2020												2021											
	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
<b>Load and Resource Balance</b>																								
<b>Load Forecast (95th%)—w/EE DSM</b>	(2,586)	(2,434)	(2,246)	(1,918)	(3,092)	(3,876)	(4,118)	(3,621)	(3,417)	(2,229)	(2,470)	(2,786)	(2,547)	(2,481)	(2,229)	(1,889)	(3,109)	(3,916)	(4,160)	(3,642)	(3,458)	(2,239)	(2,468)	(2,754)
Existing DSM (Irrigation Timer)	0	0	0	0	0	6	6	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	0
Existing DSM (AC Co-Gen Credit)	0	0	0	0	0	53	53	53	0	0	0	0	0	0	0	0	0	31	31	31	0	0	0	0
Total Existing Demand Response	0	0	0	0	0	57	57	51	0	0	0	0	0	0	0	0	0	57	57	51	0	0	0	0
<b>Peak-Hour Load Forecast w/Existing DSM</b>	(2,586)	(2,434)	(2,246)	(1,918)	(3,092)	(3,819)	(4,061)	(3,570)	(3,417)	(2,229)	(2,470)	(2,786)	(2,547)	(2,481)	(2,229)	(1,889)	(3,109)	(3,860)	(4,103)	(3,592)	(3,458)	(2,239)	(2,465)	(2,754)
<b>Existing Resources</b>																								
<b>Coal (w/Curtailment)</b>	977	977	513	237	575	977	977	977	971	314	802	977	977	977	606	227	485	935	977	977	673	314	592	977
Hydro (90th%)—HCC	925	965	706	585	1,181	1,035	1,065	945	1,035	505	600	785	1,064	845	706	585	1,178	1,035	1,050	945	1,035	590	600	870
Hydro (90th%)—Other	198	206	190	210	283	286	224	220	205	205	134	199	197	200	190	210	282	282	222	219	204	205	193	198
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro</b>	1,123	1,165	896	795	1,463	1,321	1,229	1,165	1,240	711	734	984	1,261	1,045	890	795	1,461	1,317	1,272	1,164	1,239	895	793	1,068
<b>CSPP (PURPA)</b>	52	51	54	79	129	138	141	132	110	82	58	55	52	51	54	79	129	138	141	132	110	82	58	55
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PPL Montana—Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fast Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Power Purchase Agreements</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Firm Pacific NW Import Capability</b>	452	287	309	339	375	191	41	159	244	481	522	436	243	334	292	313	350	189	34	146	228	269	522	439
<b>Gas Peakers</b>	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416
<b>Subtotal</b>	3,019	2,896	2,182	1,866	2,958	3,042	2,805	2,849	2,082	2,004	2,592	2,868	2,949	2,883	2,257	1,840	2,841	2,995	2,840	2,835	2,667	1,976	2,382	2,955
<b>Monthly Surplus/Deficit</b>	0	0	(64)	(53)	(134)	(777)	(1,256)	(721)	(736)	(235)	0	0	0	0	0	(50)	(268)	(885)	(1,269)	(757)	(791)	(262)	(84)	0
<b>2009 IRP Resources</b>																								
2012 Wind RFP	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Langley Gulch	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Geothermal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Geothermal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>Remaining Monthly Surplus/Deficit</b>	0	0	0	0	0	(42)	(908)	(373)	(388)	0	0	0	0	0	0	0	0	(518)	(915)	(409)	(444)	0	0	0
<b>2009 IRP DSM</b>																								
Commercial (FlexPeak)	0	0	0	0	0	57	57	57	0	0	0	0	0	0	0	0	0	57	57	57	0	0	0	0
Irrigation Peak Rewards	0	0	0	0	0	254	254	0	0	0	0	0	0	0	0	0	0	254	254	0	0	0	0	0
Energy Efficiency Peak Reduction	66	66	66	66	66	66	66	66	66	66	66	66	73	73	73	73	74	73	73	73	73	73	73	73
<b>Total New DSM Peak Reduction</b>	66	66	66	66	66	376	376	122	66	66	66	66	73	73	73	73	74	382	382	123	73	73	73	73
<b>Remaining Monthly Surplus/Deficit</b>	0	0	0	0	0	(5)	(532)	(251)	(923)	0	0	0	0	0	0	0	0	(134)	(532)	(280)	(371)	0	0	0
<b>2009 IRP Resources</b>																								
2015 Boardman-Hemlingway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (49 MW)	2	2	0	0	8	10	0	0	0	0	0	0	1	2	0	0	3	10	0	0	0	0	0	1
2017 Boardman-Hemlingway Transmission	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2020 Large Aero (100 MW)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2022 Wind (100 MW)																								
2024 Large Aero (2 X 100 MW)																								
2025 Gateway West Transmission																								
2025 Large Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	0	0	0	0	0	0	(7)	0	0	0	0	0	0	0	0	0	0	0	(7)	0	0	0	0	0

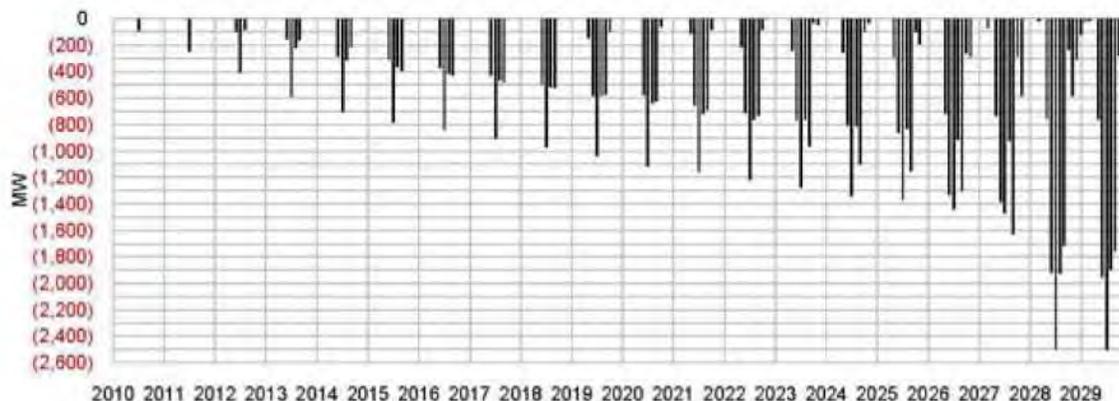
Peak-Hour	2022												2023											
	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
<b>Load and Resource Balance</b>																								
Load Forecast (95th%)—w/EE DSM	(2,343)	(2,477)	(2,232)	(1,886)	(3,131)	(3,804)	(4,210)	(3,893)	(3,500)	(2,245)	(2,474)	(2,763)	(2,335)	(2,470)	(2,230)	(1,878)	(3,153)	(4,006)	(4,261)	(3,726)	(3,540)	(2,249)	(2,479)	(2,751)
Existing DSM (Irrigation Timer)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Existing DSM (AC Cool Credit)	0	0	0	0	0	21	21	21	0	0	0	0	0	0	0	0	0	21	21	21	0	0	0	0
Total Existing Demand Response	0	0	0	0	0	21	21	21	0	0	0	0	0	0	0	0	0	21	21	21	0	0	0	0
<b>Peak-Hour Load Forecast w/Existing DSM</b>	<b>(2,343)</b>	<b>(2,477)</b>	<b>(2,232)</b>	<b>(1,886)</b>	<b>(3,131)</b>	<b>(3,804)</b>	<b>(4,154)</b>	<b>(3,634)</b>	<b>(3,500)</b>	<b>(2,245)</b>	<b>(2,474)</b>	<b>(2,763)</b>	<b>(2,335)</b>	<b>(2,470)</b>	<b>(2,230)</b>	<b>(1,878)</b>	<b>(3,153)</b>	<b>(3,949)</b>	<b>(4,205)</b>	<b>(3,675)</b>	<b>(3,540)</b>	<b>(2,249)</b>	<b>(2,479)</b>	<b>(2,751)</b>
<b>Existing Resources</b>																								
Coal (w/Curtailment)	977	977	605	0	417	935	977	977	673	314	552	977	977	977	430	0	417	935	977	977	493	314	555	977
Hydro (90th%)—HCC	1,096	815	700	585	1,177	1,035	1,040	945	1,035	750	600	785	1,048	815	785	585	1,104	1,035	1,095	945	1,035	700	600	785
Hydro (90th%)—Other	197	199	189	210	292	279	217	218	204	204	193	198	196	198	188	209	281	277	214	218	208	204	192	197
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro</b>	<b>1,292</b>	<b>1,014</b>	<b>889</b>	<b>795</b>	<b>1,458</b>	<b>1,314</b>	<b>1,257</b>	<b>1,163</b>	<b>1,239</b>	<b>954</b>	<b>793</b>	<b>983</b>	<b>1,244</b>	<b>1,013</b>	<b>973</b>	<b>794</b>	<b>1,385</b>	<b>1,312</b>	<b>1,219</b>	<b>1,163</b>	<b>1,238</b>	<b>904</b>	<b>792</b>	<b>982</b>
CSPP (PURPA)	52	51	54	79	129	138	141	132	110	82	58	55	52	51	54	79	125	138	141	132	110	82	58	55
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PPL Montana—Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Power Purchase Agreements</b>	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Firm Pacific NW Import Capability	248	445	295	311	345	185	78	142	222	216	522	439	248	433	210	303	341	176	73	142	217	270	521	439
Gas Peakers	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416
<b>Subtotal</b>	<b>2,945</b>	<b>2,902</b>	<b>2,260</b>	<b>1,600</b>	<b>2,766</b>	<b>2,988</b>	<b>2,820</b>	<b>2,830</b>	<b>2,660</b>	<b>1,982</b>	<b>2,380</b>	<b>2,870</b>	<b>2,937</b>	<b>2,890</b>	<b>2,083</b>	<b>1,592</b>	<b>2,687</b>	<b>2,977</b>	<b>2,776</b>	<b>2,830</b>	<b>2,474</b>	<b>1,986</b>	<b>2,342</b>	<b>2,868</b>
<b>Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(287)</b>	<b>(365)</b>	<b>(916)</b>	<b>(1,334)</b>	<b>(804)</b>	<b>(840)</b>	<b>(263)</b>	<b>(94)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(148)</b>	<b>(287)</b>	<b>(465)</b>	<b>(972)</b>	<b>(1,428)</b>	<b>(845)</b>	<b>(1,066)</b>	<b>(263)</b>	<b>(137)</b>	<b>0</b>
<b>2006 IRP Resources</b>																								
2012 Wind RFP	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Langley Gulch	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Geothermal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Geothermal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>Remaining Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(17)</b>	<b>(569)</b>	<b>(987)</b>	<b>(456)</b>	<b>(492)</b>	<b>0</b>	0	0	0	0	0	0	<b>(114)</b>	<b>(625)</b>	<b>(1,081)</b>	<b>(498)</b>	<b>(719)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>2009 IRP DSM</b>																								
Commercial (FlexPeak)	0	0	0	0	0	57	57	57	0	0	0	0	0	0	0	0	0	57	57	57	0	0	0	0
Irrigation Peak Rewards	0	0	0	0	0	254	254	0	0	0	0	0	0	0	0	0	0	254	254	0	0	0	0	0
Energy Efficiency Peak Reduction	81	80	80	80	81	80	80	80	80	80	80	80	88	87	87	88	88	88	87	88	88	88	88	88
<b>Total New DSM Peak Reduction</b>	<b>81</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>81</b>	<b>391</b>	<b>390</b>	<b>137</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>88</b>	<b>87</b>	<b>87</b>	<b>88</b>	<b>88</b>	<b>398</b>	<b>398</b>	<b>144</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>
<b>Remaining Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(178)</b>	<b>(596)</b>	<b>(820)</b>	<b>(412)</b>	<b>0</b>	0	0	0	0	0	0	<b>(40)</b>	<b>(227)</b>	<b>(683)</b>	<b>(354)</b>	<b>(631)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>2009 IRP Resources</b>																								
2015 Boardman-Hemlingway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (89 MW)	2	2	0	0	3	10	0	0	0	0	0	1	2	2	0	0	3	10	0	0	0	0	0	1
2017 Boardman-Hemlingway Transmission	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2020 Large Aero (100 MW)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2022 Wind (100 MW)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2024 Large Aero (2 X 100 MW)																								
2025 Gateway West Transmission																								
2026 Large Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(66)</b>	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0	<b>(153)</b>	<b>0</b>	<b>(161)</b>	<b>0</b>

Peak-Hour	2024												2025											
	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
<b>Load and Resource Balance</b>																								
Load Forecast (95th%)—w/EE DSM	(2,467)	(2,456)	(2,193)	(1,830)	(3,164)	(4,039)	(4,290)	(3,728)	(3,580)	(2,244)	(2,161)	(2,688)	(2,471)	(2,430)	(2,201)	(1,835)	(3,186)	(4,084)	(4,341)	(3,778)	(3,622)	(2,251)	(2,471)	(2,710)
Existing DSM (Irrigation Timer)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Existing DSM (AC Cook Credit)	0	0	0	0	0	51	51	51	0	0	0	0	0	0	0	0	0	51	51	51	0	0	0	0
Total Existing Demand Response	0	0	0	0	0	57	57	51	0	0	0	0	0	0	0	0	57	57	51	0	0	0	0	0
<b>Peak-Hour Load Forecast w/Existing DSM</b>	<b>(2,467)</b>	<b>(2,456)</b>	<b>(2,193)</b>	<b>(1,830)</b>	<b>(3,164)</b>	<b>(3,983)</b>	<b>(4,234)</b>	<b>(3,678)</b>	<b>(3,580)</b>	<b>(2,244)</b>	<b>(2,461)</b>	<b>(2,688)</b>	<b>(2,471)</b>	<b>(2,430)</b>	<b>(2,201)</b>	<b>(1,835)</b>	<b>(3,186)</b>	<b>(4,027)</b>	<b>(4,290)</b>	<b>(3,728)</b>	<b>(3,622)</b>	<b>(2,251)</b>	<b>(2,471)</b>	<b>(2,710)</b>
<b>Existing Resources</b>																								
Coal (w/Curtailment)	977	977	430	0	417	835	977	977	403	214	555	977	977	977	311	0	417	935	977	977	403	214	403	977
Hydro (90th%)—HCC	1,043	780	700	585	1,175	1,039	1,005	945	1,035	615	600	785	968	775	700	585	1,173	1,035	1,005	945	1,035	574	600	785
Hydro (90th%)—Other	195	198	188	208	281	275	212	217	202	204	191	197	195	197	187	208	280	266	211	216	201	203	190	196
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro</b>	<b>1,238</b>	<b>978</b>	<b>888</b>	<b>794</b>	<b>1,455</b>	<b>1,314</b>	<b>1,217</b>	<b>1,162</b>	<b>1,237</b>	<b>819</b>	<b>791</b>	<b>982</b>	<b>1,162</b>	<b>972</b>	<b>887</b>	<b>793</b>	<b>1,454</b>	<b>1,301</b>	<b>1,216</b>	<b>1,161</b>	<b>1,236</b>	<b>777</b>	<b>790</b>	<b>981</b>
CSPP (PURPA)	52	51	54	79	129	138	141	132	110	82	58	55	52	51	54	79	129	138	141	132	110	82	58	55
<b>Power Purchase Agreements</b>																								
Elkhorn Valley Wind	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PPL Montana—Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Power Purchase Agreements</b>	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Firm Pacific NW Import Capability	186	470	258	255	336	172	19	133	209	356	519	445	266	431	267	261	327	169	13	137	205	456	520	443
Gas Peakers	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416
<b>Subtotal</b>	<b>2,869</b>	<b>2,891</b>	<b>2,046</b>	<b>1,544</b>	<b>2,754</b>	<b>2,974</b>	<b>2,771</b>	<b>2,820</b>	<b>2,375</b>	<b>1,897</b>	<b>2,339</b>	<b>2,874</b>	<b>2,873</b>	<b>2,847</b>	<b>1,935</b>	<b>1,549</b>	<b>2,743</b>	<b>2,959</b>	<b>2,763</b>	<b>2,823</b>	<b>2,370</b>	<b>1,955</b>	<b>2,188</b>	<b>2,872</b>
<b>Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>(148)</b>	<b>(286)</b>	<b>(410)</b>	<b>(1,009)</b>	<b>(1,463)</b>	<b>(858)</b>	<b>(1,204)</b>	<b>(347)</b>	<b>(121)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(266)</b>	<b>(286)</b>	<b>(443)</b>	<b>(1,068)</b>	<b>(1,521)</b>	<b>(903)</b>	<b>(1,252)</b>	<b>(295)</b>	<b>(283)</b>	<b>0</b>
<b>2006 IRP Resources</b>																								
2012 Wind RFP	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Langley Gulch	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Geothermal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Geothermal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>Remaining Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(63)</b>	<b>(661)</b>	<b>(1,113)</b>	<b>(510)</b>	<b>(837)</b>	<b>0</b>	0	0	0	0	0	0	<b>(93)</b>	<b>(721)</b>	<b>(1,173)</b>	<b>(550)</b>	<b>(904)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>2009 IRP DSM</b>																								
Commercial (FlexPeak)	0	0	0	0	0	57	57	57	0	0	0	0	0	0	0	0	0	57	57	57	0	0	0	0
Irrigation Peak Rewards	0	0	0	0	0	254	254	0	0	0	0	0	0	0	0	0	0	254	254	0	0	0	0	0
Energy Efficiency Peak Reduction	95	95	95	95	95	95	95	95	96	95	95	96	103	103	103	103	103	103	103	103	103	103	104	103
<b>Total New DSM Peak Reduction</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>406</b>	<b>406</b>	<b>152</b>	<b>96</b>	<b>95</b>	<b>95</b>	<b>96</b>	<b>103</b>	<b>103</b>	<b>103</b>	<b>103</b>	<b>103</b>	<b>413</b>	<b>413</b>	<b>159</b>	<b>103</b>	<b>103</b>	<b>104</b>	<b>103</b>
<b>Remaining Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(256)</b>	<b>(709)</b>	<b>(358)</b>	<b>(761)</b>	<b>0</b>	0	0	0	0	0	0	0	<b>(307)</b>	<b>(760)</b>	<b>(396)</b>	<b>(801)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>2009 IRP Resources</b>																								
2015 Boardman—Hermingway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (43 MW)	2	2	0	0	3	10	0	0	0	0	0	1	2	2	0	0	3	10	0	0	0	0	0	1
2017 Boardman—Hermingway Transmission	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2020 Large Aero (100 MW)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2022 Wind (100 MW)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2024 Large Aero (2 X 100 MW)	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
2025 Gateway West Transmission																								
2025 Large Aero (2 X 100 MW)																								
2027 Wind (2 X 200 MW)																								
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	<b>0</b>	<b>(31)</b>	<b>0</b>																					

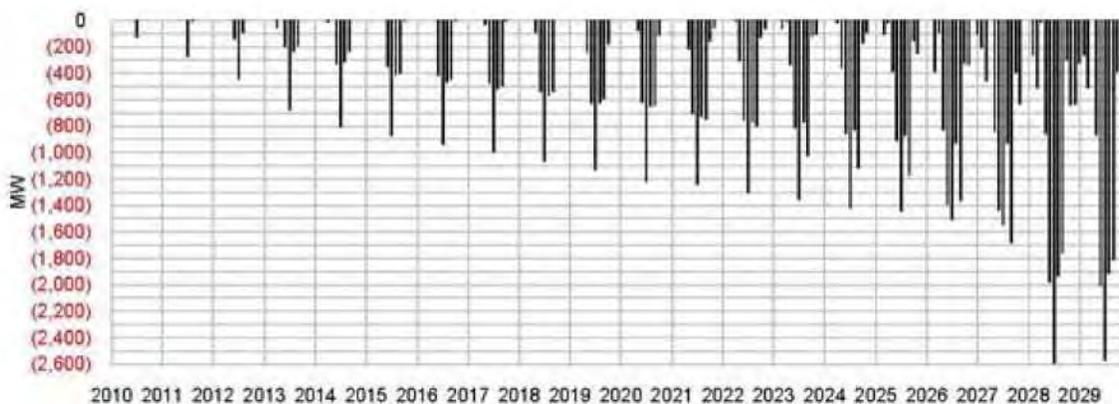
Peak-Hour	2026												2027											
	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27	Apr-27	May-27	Jun-27	Jul-27	Aug-27	Sep-27	Oct-27	Nov-27	Dec-27
<b>Load and Resource Balance</b>																								
Load Forecast (95th%)—w/EE DSM	(2,480)	(2,421)	(2,199)	(1,826)	(3,206)	(4,129)	(4,393)	(3,818)	(3,604)	(2,254)	(2,475)	(2,702)	(2,393)	(2,382)	(2,198)	(1,783)	(3,216)	(4,103)	(4,424)	(3,623)	(3,703)	(2,247)	(2,460)	(2,039)
Existing DSM (Irrigation Timer)	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0	0	0
Existing DSM (AC Coal Credit)	0	0	0	0	0	51	51	51	0	0	0	0	0	0	0	0	0	51	51	51	0	0	0	0
Total Existing Demand Response	0	0	0	0	0	57	57	51	0	0	0	0	0	0	0	0	0	57	57	57	0	0	0	0
<b>Peak-Hour Load Forecast w/Existing DSM</b>	<b>(2,480)</b>	<b>(2,421)</b>	<b>(2,199)</b>	<b>(1,826)</b>	<b>(3,206)</b>	<b>(4,072)</b>	<b>(4,336)</b>	<b>(3,768)</b>	<b>(3,604)</b>	<b>(2,254)</b>	<b>(2,475)</b>	<b>(2,702)</b>	<b>(2,393)</b>	<b>(2,382)</b>	<b>(2,198)</b>	<b>(1,783)</b>	<b>(3,216)</b>	<b>(4,106)</b>	<b>(4,367)</b>	<b>(3,774)</b>	<b>(3,703)</b>	<b>(2,247)</b>	<b>(2,460)</b>	<b>(2,039)</b>
<b>Existing Resources</b>																								
Coal (w/Curtailment)	977	421	0	0	0	960	977	977	313	0	313	977	311	0	0	0	0	500	977	977	34	0	0	940
Hydro (90th%)—HCC	895	775	700	585	1,273	1,035	1,005	904	1,035	628	605	785	965	690	755	385	1,123	1,035	1,005	945	1,035	832	600	785
Hydro (90th%)—Other	144	196	186	208	280	261	268	214	261	202	190	195	193	196	208	208	241	208	213	200	202	189	195	
Sho-Ban Water Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro</b>	<b>1,089</b>	<b>971</b>	<b>886</b>	<b>793</b>	<b>1,452</b>	<b>1,296</b>	<b>1,273</b>	<b>1,119</b>	<b>1,236</b>	<b>830</b>	<b>795</b>	<b>980</b>	<b>1,158</b>	<b>886</b>	<b>941</b>	<b>793</b>	<b>1,462</b>	<b>1,276</b>	<b>1,276</b>	<b>1,235</b>	<b>834</b>	<b>789</b>	<b>980</b>	
CSPP (PURPA)	52	51	54	79	129	138	141	132	110	82	58	55	52	51	54	79	129	138	141	132	110	82	58	55
<b>Power Purchase Agreements</b>																								
Ellison Valley Wind	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Naft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
FPL Montana—Jefferson (83 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Power Purchase Agreements</b>																								
Firm Pacific NW Import Capability	326	412	389	331	320	172	6	125	187	364	522	444	103	504	180	210	327	165	2	126	183	343	523	440
Gas Peakers	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416
<b>Subtotal</b>	<b>2,863</b>	<b>2,271</b>	<b>1,795</b>	<b>1,419</b>	<b>2,326</b>	<b>2,521</b>	<b>2,754</b>	<b>2,769</b>	<b>2,262</b>	<b>1,693</b>	<b>2,104</b>	<b>2,872</b>	<b>2,130</b>	<b>1,856</b>	<b>1,591</b>	<b>1,498</b>	<b>2,274</b>	<b>2,494</b>	<b>2,750</b>	<b>2,810</b>	<b>1,979</b>	<b>1,675</b>	<b>1,786</b>	<b>2,745</b>
<b>Monthly Surplus/Deficit</b>	<b>0</b>	<b>(180)</b>	<b>(454)</b>	<b>(409)</b>	<b>(879)</b>	<b>(1,551)</b>	<b>(1,582)</b>	<b>(999)</b>	<b>(1,402)</b>	<b>(561)</b>	<b>(871)</b>	<b>0</b>	<b>(263)</b>	<b>(526)</b>	<b>(577)</b>	<b>(285)</b>	<b>(942)</b>	<b>(1,814)</b>	<b>(1,814)</b>	<b>(965)</b>	<b>(1,724)</b>	<b>(572)</b>	<b>(674)</b>	<b>0</b>
<b>2006 IRP Resources</b>																								
2012 Wind RFP	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Langley Gulch	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Geothermal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Geothermal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>Remaining Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>(107)</b>	<b>(62)</b>	<b>(532)</b>	<b>(1,203)</b>	<b>(1,235)</b>	<b>(651)</b>	<b>(1,055)</b>	<b>(214)</b>	<b>(24)</b>	<b>0</b>	<b>0</b>	<b>(178)</b>	<b>(230)</b>	<b>0</b>	<b>(594)</b>	<b>(1,205)</b>	<b>(1,270)</b>	<b>(617)</b>	<b>(1,376)</b>	<b>(224)</b>	<b>(320)</b>	<b>0</b>
<b>2009 IRP DSM</b>																								
Commercial (FlexPeak)	0	0	0	0	0	57	57	57	0	0	0	0	0	0	0	0	0	57	57	57	0	0	0	0
Irrigation Peak Rewards	0	0	0	0	0	254	254	0	0	0	0	0	0	0	0	0	0	254	254	0	0	0	0	0
Energy Efficiency Peak Reduction	111	111	111	111	112	111	111	111	111	110	112	111	115	115	118	118	120	119	112	119	119	119	119	119
<b>Total New DSM Peak Reduction</b>	<b>111</b>	<b>111</b>	<b>111</b>	<b>111</b>	<b>112</b>	<b>421</b>	<b>421</b>	<b>167</b>	<b>111</b>	<b>110</b>	<b>112</b>	<b>111</b>	<b>119</b>	<b>119</b>	<b>118</b>	<b>118</b>	<b>120</b>	<b>429</b>	<b>429</b>	<b>175</b>	<b>119</b>	<b>119</b>	<b>119</b>	<b>119</b>
<b>Remaining Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(420)</b>	<b>(782)</b>	<b>(813)</b>	<b>(484)</b>	<b>(944)</b>	<b>(103)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(50)</b>	<b>(111)</b>	<b>0</b>	<b>(474)</b>	<b>(836)</b>	<b>(841)</b>	<b>(442)</b>	<b>(1,257)</b>	<b>(105)</b>	<b>(207)</b>	<b>0</b>
<b>2009 IRP Resources</b>																								
2015 Boardman—Hemingway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (49 MW)	2	2	0	0	3	10	0	0	0	0	0	1	2	2	0	0	3	10	0	0	0	0	0	1
2017 Boardman—Hemingway Transmission	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2020 Large Aero (100 MW)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2022 Wind (100 MW)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2024 Large Aero (2 X 100 MW)	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
2025 Gateway West Transmission	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2026 Large Aero (2 X 100 MW)	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
2027 Wind (2 X 200 MW)													20	20	20	20	20	20	20	20	20	20	20	20
2028 Large Aero (4 X 100 MW)																								
2029 Large Aero (5 X 100 MW)																								
<b>Monthly Surplus/Deficit</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>	<b>(207)</b>	<b>0</b>	<b>0</b>	<b>0</b>

Peak-Hour	2028												2029											
	Jan-28	Feb-28	Mar-28	Apr-28	May-28	Jun-28	Jul-28	Aug-28	Sep-28	Oct-28	Nov-28	Dec-28	Jan-29	Feb-29	Mar-29	Apr-29	May-29	Jun-29	Jul-29	Aug-29	Sep-29	Oct-29	Nov-29	Dec-29
<b>Load and Resource Balance</b>																								
Load Forecast (55th%)—w/EE DSM	(2,354)	(2,309)	(2,152)	(1,756)	(3,231)	(4,199)	(4,400)	(3,846)	(3,743)	(2,245)	(2,454)	(2,595)	(2,248)	(2,290)	(2,100)	(1,687)	(3,234)	(4,225)	(4,475)	(3,828)	(3,780)	(2,234)	(2,424)	(2,493)
Existing DSM (Irrigation Timer)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Existing DSM (AC Coop. Credit)	0	0	0	0	0	51	51	51	0	0	0	0	0	0	0	0	0	51	51	51	0	0	0	0
Total Existing Demand Response	0	0	0	0	0	51	51	51	0	0	0	0	0	0	0	0	0	51	51	51	0	0	0	0
<b>Peak-Hour Load Forecast w/Existing DSM</b>	<b>(2,354)</b>	<b>(2,309)</b>	<b>(2,152)</b>	<b>(1,756)</b>	<b>(3,231)</b>	<b>(4,143)</b>	<b>(4,400)</b>	<b>(3,795)</b>	<b>(3,743)</b>	<b>(2,245)</b>	<b>(2,454)</b>	<b>(2,595)</b>	<b>(2,248)</b>	<b>(2,290)</b>	<b>(2,100)</b>	<b>(1,687)</b>	<b>(3,234)</b>	<b>(4,169)</b>	<b>(4,419)</b>	<b>(3,778)</b>	<b>(3,780)</b>	<b>(2,234)</b>	<b>(2,424)</b>	<b>(2,493)</b>
<b>Existing Resources</b>																								
Coal (w/Curtailment)	563	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydro (90th%)—HCC	962	775	700	575	1,171	1,035	1,095	850	1,035	571	600	785	893	775	700	575	1,170	1,035	1,005	945	1,035	628	600	785
Hydro (90th%)—Other	193	195	185	207	279	239	206	211	206	291	189	194	197	199	184	207	279	237	206	210	199	261	188	193
Sho-Ban Water/Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro</b>	<b>1,155</b>	<b>970</b>	<b>885</b>	<b>782</b>	<b>1,450</b>	<b>1,274</b>	<b>1,301</b>	<b>1,061</b>	<b>1,235</b>	<b>772</b>	<b>789</b>	<b>979</b>	<b>1,090</b>	<b>974</b>	<b>884</b>	<b>782</b>	<b>1,449</b>	<b>1,272</b>	<b>1,211</b>	<b>1,155</b>	<b>1,234</b>	<b>826</b>	<b>788</b>	<b>978</b>
CSPP (PURPA)	52	51	54	79	129	138	141	132	110	82	58	55	52	51	54	79	129	138	141	132	110	82	58	55
<b>Power Purchase Agreements</b>																								
Elishon Valley Wind	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Raft River Geothermal	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
FPL Montana—Jefferson (23 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Side Purchase (50 MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mead Purchase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Power Purchase Agreements</b>																								
Firm Pacific NW Import Capability	157	333	220	195	324	163	0	120	176	462	518	454	117	280	169	135	321	159	0	129	170	333	526	463
Gas Peakers	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416	416
<b>Subtotal</b>	<b>2,343</b>	<b>1,770</b>	<b>1,575</b>	<b>1,472</b>	<b>2,319</b>	<b>1,991</b>	<b>1,789</b>	<b>1,739</b>	<b>1,936</b>	<b>1,733</b>	<b>1,781</b>	<b>1,904</b>	<b>1,675</b>	<b>1,721</b>	<b>1,523</b>	<b>1,412</b>	<b>2,315</b>	<b>1,985</b>	<b>1,768</b>	<b>1,832</b>	<b>1,931</b>	<b>1,657</b>	<b>1,788</b>	<b>1,912</b>
<b>Monthly Surplus/Deficit</b>	<b>(11)</b>	<b>(576)</b>	<b>(577)</b>	<b>(284)</b>	<b>(912)</b>	<b>(2,152)</b>	<b>(2,634)</b>	<b>(2,056)</b>	<b>(1,806)</b>	<b>(512)</b>	<b>(673)</b>	<b>(691)</b>	<b>(573)</b>	<b>(575)</b>	<b>(577)</b>	<b>(276)</b>	<b>(919)</b>	<b>(2,184)</b>	<b>(2,651)</b>	<b>(1,946)</b>	<b>(1,850)</b>	<b>(576)</b>	<b>(636)</b>	<b>(581)</b>
<b>2009 IRP Resources</b>																								
2012 Wind FFP	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Langley Gulch	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Geothermal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Geothermal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>Remaining Monthly Surplus/Deficit</b>	<b>0</b>	<b>(228)</b>	<b>(229)</b>	<b>0</b>	<b>(565)</b>	<b>(1,804)</b>	<b>(2,287)</b>	<b>(1,709)</b>	<b>(1,453)</b>	<b>(165)</b>	<b>(325)</b>	<b>(344)</b>	<b>(225)</b>	<b>(228)</b>	<b>(229)</b>	<b>0</b>	<b>(572)</b>	<b>(1,836)</b>	<b>(2,303)</b>	<b>(1,598)</b>	<b>(1,502)</b>	<b>(229)</b>	<b>(288)</b>	<b>(233)</b>
<b>2009 IRP DSM</b>																								
Commercial (FlexPeak)	0	0	0	0	0	57	57	57	0	0	0	0	0	0	0	0	0	57	57	57	0	0	0	0
Irrigation Peak Rewards	0	0	0	0	0	254	254	0	0	0	0	0	0	0	0	0	0	254	254	0	0	0	0	0
Energy Efficiency Peak Reduction	128	127	127	127	128	127	127	127	127	127	127	128	127	127	127	127	128	127	127	127	128	127	127	128
<b>Total New DSM Peak Reduction</b>	<b>128</b>	<b>127</b>	<b>127</b>	<b>127</b>	<b>128</b>	<b>438</b>	<b>438</b>	<b>184</b>	<b>127</b>	<b>127</b>	<b>127</b>	<b>128</b>	<b>127</b>	<b>127</b>	<b>127</b>	<b>127</b>	<b>128</b>	<b>438</b>	<b>438</b>	<b>184</b>	<b>128</b>	<b>127</b>	<b>127</b>	<b>128</b>
<b>Remaining Monthly Surplus/Deficit</b>	<b>0</b>	<b>(101)</b>	<b>(103)</b>	<b>0</b>	<b>(437)</b>	<b>(1,366)</b>	<b>(1,849)</b>	<b>(1,525)</b>	<b>(1,331)</b>	<b>(38)</b>	<b>(198)</b>	<b>(216)</b>	<b>(99)</b>	<b>(101)</b>	<b>(103)</b>	<b>0</b>	<b>(444)</b>	<b>(1,398)</b>	<b>(1,866)</b>	<b>(1,415)</b>	<b>(1,374)</b>	<b>(102)</b>	<b>(161)</b>	<b>(166)</b>
<b>2009 IRP Resources</b>																								
2015 Boardman—Hemingway Transmission	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
2015 Shoshone Falls Upgrade (40 MW)	2	2	0	0	3	16	0	0	0	0	0	1	2	2	0	0	3	16	0	0	0	0	0	1
2017 Boardman—Hemingway Transmission	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2029 Large Aero (100 MW)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2022 Wind (100 MW)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2024 Large Aero (2 X 100 MW)	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
2025 Gateway West Transmission	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2026 Large Aero (2 X 100 MW)	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
2027 Wind (2 X 200 MW)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
2028 Large Aero (4 X 100 MW)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
2029 Large Aero (5 X 100 MW)													500	500	500	500	500	500	500	500	500	500	500	500
<b>Monthly Surplus/Deficit</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(398)</b>	<b>(75)</b>	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

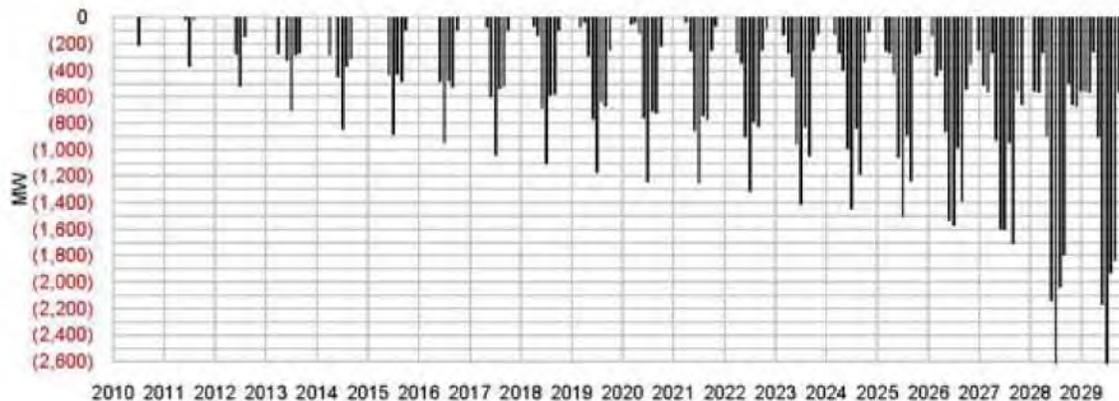
**Peak Hour Deficits with Existing Resources**  
(50th Percentile Water and 90th Percentile Load)



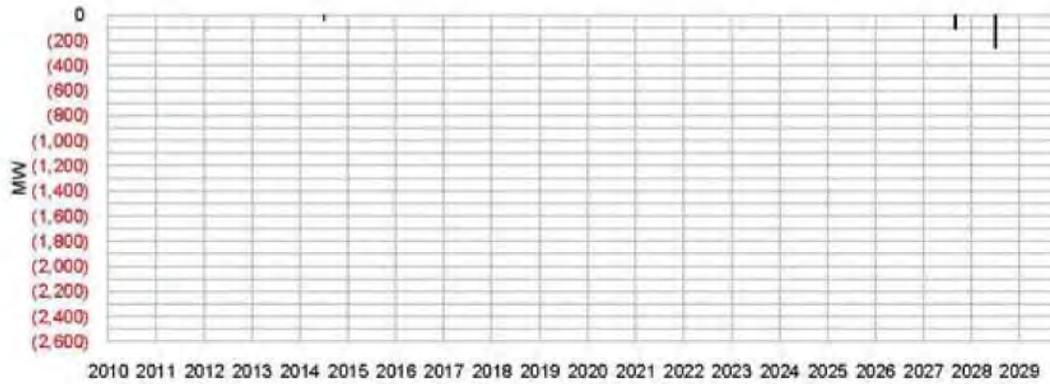
**Peak Hour Deficits with Existing Resources**  
(70th Percentile Water and 95th Percentile Load)



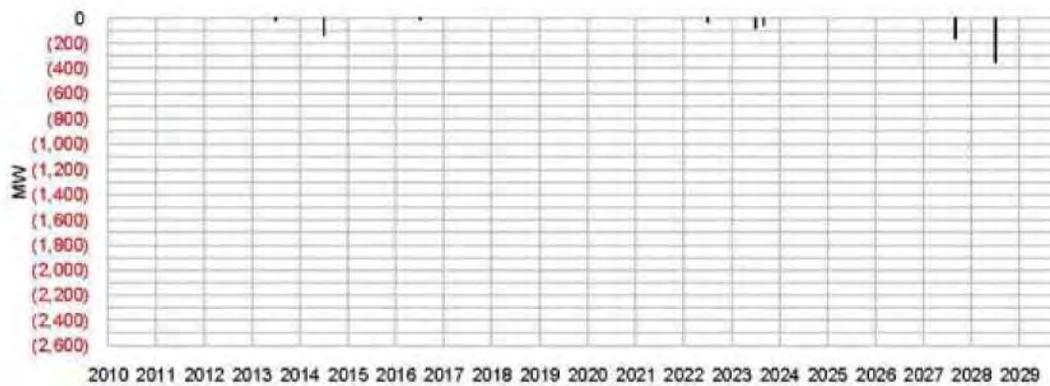
**Peak Hour Deficits with Existing Resources**  
(90th Percentile Water and 95th Percentile Load)



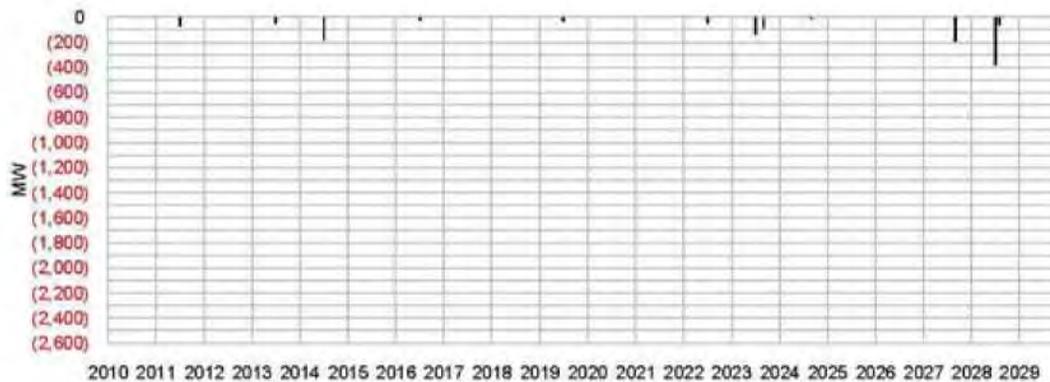
**Peak Hour Deficits with 2009 IRP Resources**  
(50th Percentile Water and 90th Percentile Load)



**Peak Hour Deficits with 2009 IRP Resources**  
(70th Percentile Water and 95th Percentile Load)



**Peak Hour Deficits with Existing Resources**  
(90th Percentile Water and 95th Percentile Load)



**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**50th Percentile Water, 50th Percentile Load**

**Abbreviations:**  
HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2010	HCC	290.8	405.9	352.8	427.6	424.6	352.3	250.0	179.7	225.7	191.8	152.2	250.8	291.1
OXBOW	2010	HCC	118.0	169.0	154.4	185.9	173.0	143.8	106.1	78.9	101.9	88.6	69.3	105.6	124.2
HELLS CANYON	2010	HCC	232.4	335.5	311.2	375.4	356.1	292.1	210.3	155.4	199.1	174.8	138.0	209.3	248.4
1000 SPRINGS	2010	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2010	ROR	24.1	26.5	23.6	57.7	80.4	86.4	79.2	60.2	36.4	16.8	0.0	19.9	42.7
BLISS	2010	ROR	49.7	52.2	45.5	52.0	49.6	43.3	37.5	35.4	38.9	40.6	39.8	48.9	44.4
C.J. STRIKE	2010	ROR	67.0	68.6	60.2	68.7	65.8	53.6	41.0	39.3	46.8	51.9	52.7	64.2	56.6
CASCADE	2010	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2010	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2010	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2010	ROR	35.9	37.2	30.2	35.7	34.3	29.2	24.6	22.4	24.9	26.3	25.3	34.4	30.0
MILNER	2010	ROR	42.4	45.2	28.4	41.0	34.5	17.6	9.4	0.0	0.0	0.0	5.0	36.7	21.6
SHOSHONE FALLS	2010	ROR	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.4	10.5	11.3	12.0	12.0	11.7
SWAN FALLS	2010	ROR	21.5	22.0	19.7	22.1	21.1	17.5	14.1	13.3	15.2	16.7	17.1	20.8	18.4
TWIN FALLS	2010	ROR	42.4	44.3	28.9	40.8	35.3	21.9	14.0	6.6	6.6	7.3	9.5	37.3	24.5
UPPER MALAD	2010	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2010	ROR	19.1	18.8	13.7	19.1	19.1	18.8	15.3	13.8	15.4	16.4	15.6	19.1	17.0
UPPER SALMON 3&4	2010	ROR	17.7	17.7	16.5	16.8	17.4	17.3	14.3	13.0	14.4	15.2	14.6	17.7	16.0
<b>HCC TOTAL</b>			<b>641.2</b>	<b>910.4</b>	<b>818.4</b>	<b>988.9</b>	<b>953.7</b>	<b>788.2</b>	<b>566.4</b>	<b>414.0</b>	<b>526.6</b>	<b>455.2</b>	<b>359.5</b>	<b>565.7</b>	<b>663.7</b>
<b>ROR TOTAL</b>			<b>360.5</b>	<b>374.8</b>	<b>311.1</b>	<b>401.3</b>	<b>403.7</b>	<b>355.3</b>	<b>295.0</b>	<b>251.9</b>	<b>246.6</b>	<b>233.4</b>	<b>221.3</b>	<b>339.8</b>	<b>315.9</b>
<b>TOTAL</b>			<b>1001.7</b>	<b>1285.2</b>	<b>1129.5</b>	<b>1390.2</b>	<b>1357.3</b>	<b>1143.5</b>	<b>861.4</b>	<b>665.9</b>	<b>773.2</b>	<b>688.6</b>	<b>580.8</b>	<b>905.5</b>	<b>979.5</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2011	HCC	290.8	405.7	352.7	427.5	424.5	352.2	249.9	179.6	225.3	192.1	152.0	250.7	291.0
OXBOW	2011	HCC	118.0	169.0	154.3	185.9	173.0	143.8	106.0	78.9	101.7	88.7	69.2	105.5	124.1
HELLS CANYON	2011	HCC	232.3	335.4	311.1	375.3	356.1	292.1	210.2	155.2	198.7	175.0	137.9	209.3	248.3
1000 SPRINGS	2011	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2011	ROR	23.9	26.4	23.3	57.5	79.8	85.9	78.7	59.9	36.3	16.7	0.0	19.8	42.4
BLISS	2011	ROR	49.7	52.1	45.5	52.0	49.6	43.2	37.4	35.4	38.9	40.6	39.8	48.9	44.4
C.J. STRIKE	2011	ROR	67.0	68.5	60.2	68.7	65.7	53.6	40.9	39.2	46.7	51.8	52.7	64.1	56.5
CASCADE	2011	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2011	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2011	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2011	ROR	35.9	37.2	30.2	35.7	34.3	29.2	24.6	22.4	24.9	26.3	25.3	34.4	30.0
MILNER	2011	ROR	42.3	45.2	28.4	41.0	34.5	17.6	9.4	0.0	0.0	0.0	5.0	36.7	21.5
SHOSHONE FALLS	2011	ROR	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.4	10.4	11.3	12.0	12.0	11.7
SWAN FALLS	2011	ROR	21.5	22.0	19.7	22.1	21.1	17.5	14.0	13.2	15.2	16.7	17.1	20.7	18.4
TWIN FALLS	2011	ROR	42.4	44.3	28.9	40.8	35.3	21.9	14.0	6.6	6.6	7.3	9.5	37.3	24.5
UPPER MALAD	2011	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2011	ROR	19.1	18.8	13.7	19.1	19.1	18.8	15.3	13.8	15.4	16.4	15.6	19.1	17.0
UPPER SALMON 3&4	2011	ROR	17.7	17.7	16.5	16.8	17.4	17.3	14.2	13.0	14.4	15.2	14.5	17.7	16.0
<b>HCC TOTAL</b>			<b>641.1</b>	<b>910.1</b>	<b>818.1</b>	<b>988.7</b>	<b>953.5</b>	<b>788.1</b>	<b>566.1</b>	<b>413.7</b>	<b>525.7</b>	<b>455.8</b>	<b>359.1</b>	<b>565.5</b>	<b>663.4</b>
<b>ROR TOTAL</b>			<b>360.2</b>	<b>374.5</b>	<b>310.8</b>	<b>401.1</b>	<b>403.0</b>	<b>354.7</b>	<b>294.1</b>	<b>251.4</b>	<b>246.3</b>	<b>233.2</b>	<b>221.2</b>	<b>339.5</b>	<b>315.5</b>
<b>TOTAL</b>			<b>1001.3</b>	<b>1284.6</b>	<b>1128.9</b>	<b>1389.8</b>	<b>1356.5</b>	<b>1142.8</b>	<b>860.2</b>	<b>665.1</b>	<b>771.9</b>	<b>689.0</b>	<b>580.3</b>	<b>905.0</b>	<b>978.9</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**50th Percentile Water, 50th Percentile Load**

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2012	HCC	290.7	405.7	352.6	427.4	424.4	352.1	249.8	179.5	225.0	192.3	152.0	250.6	291.2
OXBOW	2012	HCC	118.0	169.0	154.3	185.8	173.0	143.7	106.0	78.9	101.5	88.8	69.2	105.5	124.2
HELLS CANYON	2012	HCC	232.2	335.4	311.1	375.3	356.0	292.0	210.2	155.2	198.4	175.1	137.9	209.2	248.5
1000 SPRINGS	2012	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2012	ROR	23.9	26.3	21.9	57.4	79.6	85.4	78.3	59.4	35.9	16.6	0.0	19.7	42.1
BLISS	2012	ROR	49.7	52.1	45.5	51.9	49.6	43.2	37.4	35.4	38.9	40.5	39.8	48.9	44.4
C.J. STRIKE	2012	ROR	67.0	68.5	60.2	68.6	65.7	53.5	40.9	39.2	46.7	51.8	52.6	64.1	56.5
CASCADE	2012	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2012	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2012	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2012	ROR	35.9	37.2	30.2	35.7	34.2	29.2	24.5	22.4	24.8	26.3	25.3	34.3	30.0
MILNER	2012	ROR	42.3	45.2	28.4	41.0	34.5	17.6	9.4	0.0	0.0	0.0	5.0	36.7	21.6
SHOSHONE FALLS	2012	ROR	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.4	10.4	11.2	12.0	12.0	11.7
SWAN FALLS	2012	ROR	21.5	22.0	19.7	22.1	21.1	17.5	14.0	13.2	15.2	16.7	17.1	20.5	18.4
TWIN FALLS	2012	ROR	42.4	44.3	28.9	40.8	35.3	21.9	14.0	6.6	6.6	7.3	9.5	37.3	24.5
UPPER MALAD	2012	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2012	ROR	19.1	18.8	13.7	19.1	19.1	18.8	15.2	13.7	15.4	16.4	15.6	19.1	17.0
UPPER SALMON 3&4	2012	ROR	17.7	17.7	16.5	16.8	17.4	17.3	14.2	13.0	14.4	15.2	14.5	17.7	16.0
<b>HCC TOTAL</b>			<b>640.9</b>	<b>910.1</b>	<b>818.0</b>	<b>988.5</b>	<b>953.3</b>	<b>787.8</b>	<b>566.0</b>	<b>413.6</b>	<b>524.9</b>	<b>456.2</b>	<b>359.1</b>	<b>565.3</b>	<b>664.0</b>
<b>ROR TOTAL</b>			<b>360.2</b>	<b>374.4</b>	<b>309.4</b>	<b>400.8</b>	<b>402.7</b>	<b>354.1</b>	<b>293.5</b>	<b>250.8</b>	<b>245.8</b>	<b>232.9</b>	<b>221.1</b>	<b>339.1</b>	<b>315.2</b>
<b>TOTAL</b>			<b>1001.1</b>	<b>1284.5</b>	<b>1127.4</b>	<b>1389.3</b>	<b>1355.9</b>	<b>1141.9</b>	<b>859.5</b>	<b>664.4</b>	<b>770.7</b>	<b>689.1</b>	<b>580.2</b>	<b>904.4</b>	<b>979.2</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2013	HCC	290.5	405.6	352.5	427.3	424.3	352.0	249.7	179.4	225.0	192.0	152.2	250.5	290.8
OXBOW	2013	HCC	117.9	168.9	154.2	185.8	172.9	143.7	105.9	78.8	101.5	88.6	69.3	105.4	124.0
HELLS CANYON	2013	HCC	232.1	335.3	311.0	375.2	355.9	291.9	210.0	155.1	198.3	174.8	138.1	209.1	248.2
1000 SPRINGS	2013	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2013	ROR	23.8	26.3	21.8	57.3	79.3	84.9	78.0	59.2	35.6	16.6	0.0	19.6	42.0
BLISS	2013	ROR	49.7	52.1	45.5	51.9	49.6	43.2	37.3	35.4	38.9	40.5	39.8	48.8	44.3
C.J. STRIKE	2013	ROR	66.9	68.5	60.2	68.6	65.7	53.5	40.8	39.2	46.7	51.7	52.6	64.1	56.5
CASCADE	2013	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2013	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2013	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2013	ROR	35.8	37.2	30.2	35.6	34.2	29.1	24.5	22.3	24.8	26.3	25.2	34.3	29.9
MILNER	2013	ROR	42.2	45.2	28.4	41.0	34.5	17.6	9.4	0.0	0.0	0.0	5.0	36.7	21.5
SHOSHONE FALLS	2013	ROR	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.4	10.4	11.2	12.0	12.0	11.7
SWAN FALLS	2013	ROR	21.5	22.0	19.7	22.1	21.1	17.5	14.0	13.2	15.2	16.7	17.1	20.5	18.4
TWIN FALLS	2013	ROR	42.4	44.3	28.9	40.8	35.3	21.9	14.0	6.6	6.6	7.3	9.5	37.3	24.5
UPPER MALAD	2013	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2013	ROR	19.1	18.8	13.7	19.1	19.1	18.8	15.2	13.7	15.4	16.3	15.6	19.1	17.0
UPPER SALMON 3&4	2013	ROR	17.7	17.7	16.5	16.8	17.4	17.3	14.2	12.9	14.4	15.2	14.5	17.7	16.0
<b>HCC TOTAL</b>			<b>640.5</b>	<b>909.8</b>	<b>817.7</b>	<b>988.3</b>	<b>953.0</b>	<b>787.6</b>	<b>565.6</b>	<b>413.3</b>	<b>524.8</b>	<b>455.4</b>	<b>359.6</b>	<b>565.0</b>	<b>663.0</b>
<b>ROR TOTAL</b>			<b>359.8</b>	<b>374.4</b>	<b>309.3</b>	<b>400.6</b>	<b>402.4</b>	<b>353.5</b>	<b>293.0</b>	<b>250.4</b>	<b>245.5</b>	<b>232.7</b>	<b>221.0</b>	<b>338.9</b>	<b>314.7</b>
<b>TOTAL</b>			<b>1000.3</b>	<b>1284.2</b>	<b>1127.0</b>	<b>1388.9</b>	<b>1355.4</b>	<b>1141.1</b>	<b>858.6</b>	<b>663.7</b>	<b>770.2</b>	<b>688.1</b>	<b>580.6</b>	<b>903.9</b>	<b>977.8</b>

2009 Integrated Resource Plan  
 Average Megawatt Hydro Output from PDR580  
 50th Percentile Water, 50th Percentile Load

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2014	HCC	281.9	405.0	352.0	426.8	423.7	351.4	235.7	178.9	224.0	192.4	152.1	250.0	288.5
OXBOW	2014	HCC	117.7	168.7	154.0	185.6	172.7	143.5	100.0	78.6	101.0	88.8	69.2	105.2	123.4
HELLS CANYON	2014	HCC	233.5	334.9	310.6	374.8	355.5	291.5	198.5	154.7	197.3	175.1	137.9	208.7	247.0
1000 SPRINGS	2014	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.8	6.2
AMERICAN FALLS	2014	ROR	23.4	26.0	21.5	57.2	78.9	83.6	71.1	56.5	34.1	16.2	0.0	19.0	40.7
BLISS	2014	ROR	49.8	52.0	45.3	51.8	49.5	43.0	33.7	35.2	38.7	40.4	39.6	48.7	43.9
C.J. STRIKE	2014	ROR	66.8	68.3	60.2	68.4	65.5	53.3	36.1	39.0	46.5	51.6	52.4	63.8	55.9
CASCADE	2014	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2014	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2014	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2014	ROR	35.7	37.1	30.2	35.5	34.1	29.0	21.3	22.2	24.7	26.2	25.1	34.2	29.6
MILNER	2014	ROR	42.0	45.2	28.4	41.0	34.5	17.8	0.0	0.0	0.0	0.0	5.0	35.5	20.6
SHOSHONE FALLS	2014	ROR	12.0	12.0	12.0	12.0	12.0	12.0	10.0	10.4	10.4	11.2	12.0	12.0	11.5
SWAN FALLS	2014	ROR	21.4	21.9	19.6	22.0	21.0	17.5	12.6	13.2	15.2	16.5	17.1	20.4	18.2
TWIN FALLS	2014	ROR	42.2	44.3	28.9	40.8	35.3	21.9	6.2	6.5	6.6	7.3	9.5	36.6	23.7
UPPER MALAD	2014	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2014	ROR	19.1	18.8	13.7	19.1	19.1	18.7	12.8	13.7	15.3	16.3	15.5	19.1	16.7
UPPER SALMON 3&4	2014	ROR	17.7	17.7	16.5	16.8	17.4	17.2	12.1	12.9	14.3	15.1	14.5	17.7	15.8
<b>HCC TOTAL</b>			<b>633.1</b>	<b>908.6</b>	<b>816.6</b>	<b>987.2</b>	<b>951.9</b>	<b>786.4</b>	<b>534.2</b>	<b>412.2</b>	<b>522.2</b>	<b>456.3</b>	<b>359.2</b>	<b>563.9</b>	<b>658.9</b>
<b>ROR TOTAL</b>			<b>358.8</b>	<b>373.6</b>	<b>308.7</b>	<b>400.0</b>	<b>401.5</b>	<b>351.5</b>	<b>249.5</b>	<b>247.1</b>	<b>243.3</b>	<b>231.7</b>	<b>220.4</b>	<b>335.8</b>	<b>309.7</b>
<b>TOTAL</b>			<b>991.9</b>	<b>1282.2</b>	<b>1125.3</b>	<b>1387.2</b>	<b>1353.3</b>	<b>1137.9</b>	<b>783.7</b>	<b>659.3</b>	<b>765.5</b>	<b>688.0</b>	<b>579.6</b>	<b>899.7</b>	<b>968.6</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2015	HCC	281.4	404.5	351.5	426.3	423.2	350.9	235.2	178.5	219.0	192.5	152.3	249.4	287.8
OXBOW	2015	HCC	117.5	168.5	153.8	185.4	172.5	143.3	99.8	78.4	100.5	88.7	69.3	105.0	123.2
HELLS CANYON	2015	HCC	233.1	334.5	310.1	374.4	355.1	291.1	198.1	154.3	197.2	175.0	138.0	208.2	246.7
1000 SPRINGS	2015	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.8	6.2
AMERICAN FALLS	2015	ROR	23.1	25.9	21.3	57.6	78.3	82.3	68.7	53.6	33.5	16.2	0.0	17.5	39.9
BLISS	2015	ROR	49.8	51.9	45.2	51.7	49.3	42.9	33.5	35.1	38.6	40.3	39.5	48.4	43.8
C.J. STRIKE	2015	ROR	66.6	68.1	60.2	68.3	65.3	53.2	35.9	38.8	46.3	51.4	52.3	62.5	55.8
CASCADE	2015	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2015	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2015	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2015	ROR	35.6	37.0	30.2	35.4	34.0	28.9	21.2	22.1	24.6	26.1	25.0	33.6	29.4
MILNER	2015	ROR	41.7	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2015	ROR	12.0	12.0	12.0	12.0	12.0	12.0	10.0	10.3	10.4	11.1	12.0	12.0	11.5
SWAN FALLS	2015	ROR	21.4	21.9	19.6	21.9	21.0	17.5	12.5	13.1	15.1	16.4	17.0	20.3	18.1
TWIN FALLS	2015	ROR	42.0	44.2	28.9	40.7	35.3	21.8	6.2	6.5	6.5	7.2	9.5	34.9	23.5
UPPER MALAD	2015	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2015	ROR	19.1	18.8	13.7	19.1	19.1	18.6	12.7	13.6	15.2	16.2	15.4	19.1	16.7
UPPER SALMON 3&4	2015	ROR	17.7	17.7	16.5	16.8	17.4	17.2	12.0	12.8	14.2	15.1	14.4	17.7	15.8
<b>HCC TOTAL</b>			<b>632.0</b>	<b>907.5</b>	<b>815.4</b>	<b>986.1</b>	<b>950.7</b>	<b>785.3</b>	<b>533.1</b>	<b>411.2</b>	<b>516.7</b>	<b>456.2</b>	<b>359.6</b>	<b>562.6</b>	<b>657.6</b>
<b>ROR TOTAL</b>			<b>357.7</b>	<b>373.0</b>	<b>308.4</b>	<b>399.9</b>	<b>400.4</b>	<b>349.7</b>	<b>246.3</b>	<b>243.4</b>	<b>241.9</b>	<b>230.9</b>	<b>219.8</b>	<b>328.8</b>	<b>307.9</b>
<b>TOTAL</b>			<b>989.7</b>	<b>1280.5</b>	<b>1123.8</b>	<b>1386.0</b>	<b>1351.1</b>	<b>1135.0</b>	<b>779.4</b>	<b>654.6</b>	<b>758.6</b>	<b>687.1</b>	<b>579.4</b>	<b>891.4</b>	<b>965.5</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**50th Percentile Water, 50th Percentile Load**

**Abbreviations:**  
HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2016	HCC	280.9	404.0	351.0	425.8	422.7	350.4	234.7	170.8	217.8	192.5	152.5	248.9	287.0
OXBOW	2016	HCC	117.3	168.3	153.6	185.2	172.3	143.1	99.6	78.2	99.9	88.6	69.4	104.8	123.1
HELLS CANYON	2016	HCC	232.7	334.0	309.7	374.0	354.7	290.7	197.7	153.4	198.0	174.8	138.2	207.8	246.5
1000 SPRINGS	2016	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.8	6.8	6.2
AMERICAN FALLS	2016	ROR	22.8	25.9	20.7	57.2	77.5	81.6	67.8	52.2	33.4	16.2	0.0	17.6	39.4
BLISS	2016	ROR	49.9	51.7	45.1	51.6	49.2	42.8	33.5	35.0	38.5	40.1	39.4	48.2	43.7
C.J. STRIKE	2016	ROR	66.0	67.9	60.2	68.1	65.1	53.0	35.7	38.7	46.1	51.2	52.1	62.3	55.5
CASCADE	2016	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2016	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2016	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2016	ROR	35.5	36.9	30.2	35.3	33.9	28.8	21.1	22.0	24.5	26.0	24.9	33.5	29.4
MILNER	2016	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2016	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.9	10.3	10.3	11.1	12.0	12.0	11.5
SWAN FALLS	2016	ROR	21.3	21.8	19.5	21.9	21.0	17.5	12.5	13.1	15.1	16.4	17.0	20.1	18.1
TWIN FALLS	2016	ROR	41.4	44.2	28.9	40.7	35.2	21.8	6.1	6.4	6.5	7.2	9.5	34.9	23.5
UPPER MALAD	2016	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2016	ROR	19.1	18.8	13.7	19.1	19.1	18.6	12.6	13.5	15.2	16.1	15.3	19.1	16.7
UPPER SALMON 3&4	2016	ROR	17.7	17.7	16.5	16.8	17.4	17.1	12.0	12.7	14.2	15.0	14.3	17.7	15.7
<b>HCC TOTAL</b>			<b>630.9</b>	<b>906.3</b>	<b>814.3</b>	<b>985.0</b>	<b>949.6</b>	<b>784.2</b>	<b>532.0</b>	<b>402.4</b>	<b>513.7</b>	<b>455.9</b>	<b>360.1</b>	<b>561.5</b>	<b>656.6</b>
<b>ROR TOTAL</b>			<b>356.0</b>	<b>372.4</b>	<b>307.6</b>	<b>399.1</b>	<b>399.1</b>	<b>348.5</b>	<b>244.8</b>	<b>241.4</b>	<b>241.3</b>	<b>230.2</b>	<b>219.2</b>	<b>328.2</b>	<b>307.0</b>
<b>TOTAL</b>			<b>986.9</b>	<b>1278.7</b>	<b>1121.9</b>	<b>1384.1</b>	<b>1348.7</b>	<b>1132.7</b>	<b>776.8</b>	<b>643.8</b>	<b>754.9</b>	<b>686.1</b>	<b>579.3</b>	<b>889.7</b>	<b>963.6</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2017	HCC	280.3	403.5	350.5	425.3	422.2	349.9	234.2	170.2	216.4	192.8	152.3	248.9	286.3
OXBOW	2017	HCC	117.0	168.1	153.4	184.9	172.1	142.8	99.3	77.9	99.2	88.7	69.3	104.7	122.7
HELLS CANYON	2017	HCC	232.2	333.7	309.3	373.5	354.3	290.3	197.3	152.9	194.6	174.9	139.0	207.7	245.8
1000 SPRINGS	2017	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2017	ROR	22.8	25.9	20.6	57.7	76.8	81.3	67.6	52.0	33.4	16.3	4.4	17.5	39.8
BLISS	2017	ROR	49.9	51.6	45.0	51.4	49.1	42.7	33.4	34.9	38.4	40.0	39.2	48.1	43.6
C.J. STRIKE	2017	ROR	65.9	67.8	60.2	67.9	65.0	52.8	35.5	38.5	46.0	51.1	51.9	62.1	55.3
CASCADE	2017	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2017	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2017	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2017	ROR	35.4	36.8	30.1	35.2	33.8	28.7	21.0	21.9	24.4	25.9	24.8	33.4	29.2
MILNER	2017	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2017	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.9	10.2	10.3	11.1	12.0	12.0	11.5
SWAN FALLS	2017	ROR	21.3	21.8	19.5	21.8	20.9	17.5	12.4	13.0	15.0	16.3	16.9	20.0	18.0
TWIN FALLS	2017	ROR	41.4	44.2	28.9	40.7	35.2	21.8	6.1	6.4	6.4	7.2	9.5	34.8	23.4
UPPER MALAD	2017	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2017	ROR	19.1	18.8	13.7	19.1	19.1	18.5	12.5	13.4	15.1	16.0	15.3	19.1	16.6
UPPER SALMON 3&4	2017	ROR	17.7	17.7	16.5	16.8	17.4	17.0	11.9	12.7	14.1	14.9	14.2	17.7	15.7
<b>HCC TOTAL</b>			<b>629.5</b>	<b>905.3</b>	<b>813.2</b>	<b>983.7</b>	<b>948.5</b>	<b>783.0</b>	<b>530.8</b>	<b>401.0</b>	<b>510.2</b>	<b>456.4</b>	<b>359.6</b>	<b>561.3</b>	<b>654.8</b>
<b>ROR TOTAL</b>			<b>355.8</b>	<b>372.1</b>	<b>307.3</b>	<b>399.0</b>	<b>398.0</b>	<b>347.6</b>	<b>243.9</b>	<b>240.5</b>	<b>240.6</b>	<b>229.7</b>	<b>222.9</b>	<b>327.5</b>	<b>306.6</b>
<b>TOTAL</b>			<b>985.3</b>	<b>1277.4</b>	<b>1120.5</b>	<b>1382.7</b>	<b>1346.5</b>	<b>1130.6</b>	<b>774.7</b>	<b>641.5</b>	<b>750.8</b>	<b>686.1</b>	<b>582.5</b>	<b>888.8</b>	<b>961.4</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**50th Percentile Water, 50th Percentile Load**

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2018	HCC	279.9	402.9	350.0	424.8	421.7	349.3	233.7	169.5	215.4	192.8	152.6	248.3	285.8
OXBOW	2018	HCC	116.8	167.9	153.2	184.7	171.9	142.6	99.1	77.6	98.6	88.6	69.3	104.5	122.5
HELLS CANYON	2018	HCC	231.9	333.2	308.9	373.1	353.9	289.8	198.8	152.3	193.5	174.7	138.1	207.3	245.4
1000 SPRINGS	2018	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2018	ROR	22.6	25.8	20.4	57.6	76.1	80.8	67.6	52.0	33.5	16.3	4.5	17.4	39.6
BLISS	2018	ROR	49.9	51.5	44.8	51.3	49.0	42.6	33.2	34.7	39.2	39.9	39.1	48.0	43.5
C.J. STRIKE	2018	ROR	65.7	67.6	60.1	67.7	64.8	52.6	35.4	38.3	45.8	50.9	51.8	61.8	55.1
CASCADE	2018	ROR	1.5	2.6	4.7	7.6	7.3	11.8	8.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2018	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2018	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2018	ROR	35.3	36.7	30.0	35.1	33.7	28.6	20.9	21.8	24.3	25.8	24.7	33.3	29.1
MILNER	2018	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2018	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.8	10.2	10.2	11.0	12.0	12.0	11.4
SWAN FALLS	2018	ROR	21.2	21.7	19.4	21.8	20.9	17.4	12.4	13.0	15.0	16.3	16.9	20.0	18.0
TWIN FALLS	2018	ROR	41.3	44.1	28.9	40.7	35.2	21.8	6.1	6.4	6.4	7.1	9.5	34.8	23.4
UPPER MALAD	2018	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2018	ROR	19.1	18.8	13.7	19.1	19.1	18.4	12.4	13.3	15.0	16.0	15.2	19.1	16.6
UPPER SALMON 3&4	2018	ROR	17.7	17.7	16.5	16.8	17.4	17.0	11.8	12.6	14.0	14.9	14.2	17.7	15.7
<b>HCC TOTAL</b>			<b>628.6</b>	<b>904.0</b>	<b>812.1</b>	<b>982.6</b>	<b>947.4</b>	<b>781.7</b>	<b>529.6</b>	<b>399.4</b>	<b>507.4</b>	<b>456.1</b>	<b>360.0</b>	<b>560.1</b>	<b>653.7</b>
<b>ROR TOTAL</b>			<b>355.1</b>	<b>371.4</b>	<b>306.6</b>	<b>398.5</b>	<b>396.9</b>	<b>346.5</b>	<b>243.2</b>	<b>239.8</b>	<b>239.9</b>	<b>229.1</b>	<b>222.6</b>	<b>327.0</b>	<b>305.9</b>
<b>TOTAL</b>			<b>983.7</b>	<b>1275.4</b>	<b>1118.7</b>	<b>1381.1</b>	<b>1344.3</b>	<b>1128.2</b>	<b>772.8</b>	<b>639.2</b>	<b>747.2</b>	<b>685.2</b>	<b>582.6</b>	<b>887.1</b>	<b>959.6</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2019	HCC	279.4	402.4	349.5	424.3	421.1	348.8	233.1	169.3	214.7	193.0	152.4	247.9	285.4
OXBOW	2019	HCC	116.6	167.7	153.0	184.5	171.7	142.4	98.9	77.5	98.2	88.6	69.2	104.3	122.3
HELLS CANYON	2019	HCC	231.5	332.8	308.5	372.7	353.5	289.4	196.4	152.2	192.7	174.8	137.9	206.9	245.0
1000 SPRINGS	2019	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2019	ROR	22.6	25.8	20.3	57.8	76.1	80.9	67.7	51.9	33.5	16.4	4.6	17.5	39.7
BLISS	2019	ROR	49.8	51.4	44.7	51.2	48.8	42.5	33.1	34.6	38.2	39.9	39.0	47.9	43.4
C.J. STRIKE	2019	ROR	65.5	67.4	59.9	67.6	64.6	52.5	35.2	38.1	45.6	50.7	51.6	61.8	54.9
CASCADE	2019	ROR	1.5	2.6	4.7	7.6	7.3	11.8	8.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2019	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2019	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2019	ROR	35.2	36.6	29.9	35.0	33.6	28.5	20.8	21.7	24.2	25.7	24.8	33.2	29.0
MILNER	2019	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2019	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.8	10.1	10.2	11.0	12.0	12.0	11.4
SWAN FALLS	2019	ROR	21.2	21.7	19.4	21.7	20.8	17.4	12.3	12.9	14.9	16.2	16.8	20.0	17.9
TWIN FALLS	2019	ROR	41.3	44.1	28.9	40.6	35.1	21.7	6.0	6.3	6.4	7.1	9.5	34.8	23.4
UPPER MALAD	2019	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2019	ROR	19.1	18.8	13.7	19.1	19.1	18.3	12.4	13.3	14.9	15.9	15.1	19.1	16.5
UPPER SALMON 3&4	2019	ROR	17.7	17.7	16.5	16.8	17.4	16.9	11.8	12.5	14.0	14.8	14.1	17.7	15.6
<b>HCC TOTAL</b>			<b>627.5</b>	<b>902.9</b>	<b>811.0</b>	<b>981.5</b>	<b>946.2</b>	<b>780.6</b>	<b>528.4</b>	<b>399.0</b>	<b>505.5</b>	<b>456.4</b>	<b>359.5</b>	<b>559.1</b>	<b>652.7</b>
<b>ROR TOTAL</b>			<b>354.7</b>	<b>371.0</b>	<b>306.1</b>	<b>398.2</b>	<b>396.2</b>	<b>346.0</b>	<b>242.7</b>	<b>238.9</b>	<b>239.4</b>	<b>228.6</b>	<b>222.0</b>	<b>326.8</b>	<b>305.4</b>
<b>TOTAL</b>			<b>982.2</b>	<b>1273.9</b>	<b>1117.1</b>	<b>1379.7</b>	<b>1342.4</b>	<b>1126.6</b>	<b>771.1</b>	<b>637.9</b>	<b>744.8</b>	<b>685.0</b>	<b>581.5</b>	<b>885.9</b>	<b>958.1</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**50th Percentile Water, 50th Percentile Load**

**Abbreviations:**  
HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2020	HCC	278.8	401.9	349.0	423.8	420.6	348.2	232.6	169.3	213.7	193.4	152.6	247.3	285.3
OXBOW	2020	HCC	116.4	167.5	152.8	184.3	171.5	142.2	98.7	77.5	97.6	88.6	69.3	104.1	122.3
HELLS CANYON	2020	HCC	231.0	332.4	308.1	372.3	353.0	289.0	196.0	152.2	191.6	174.8	138.1	206.4	244.9
1000 SPRINGS	2020	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2020	ROR	22.7	25.9	20.2	57.3	76.1	80.8	67.7	51.9	33.5	16.7	4.7	17.6	39.6
BLISS	2020	ROR	49.7	51.3	44.6	51.1	48.7	42.4	33.0	34.5	38.1	39.8	38.9	47.7	43.3
C.J. STRIKE	2020	ROR	65.3	67.3	59.7	67.4	64.5	52.3	35.0	37.9	45.5	50.5	51.4	61.6	54.8
CASCADE	2020	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2020	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2020	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2020	ROR	35.1	36.5	29.8	34.9	33.5	28.4	20.7	21.6	24.1	25.6	24.5	33.1	29.0
MILNER	2020	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2020	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.7	10.1	10.1	10.9	12.0	12.0	11.4
SWAN FALLS	2020	ROR	21.1	21.7	19.3	21.7	20.8	17.3	12.2	12.9	14.9	16.2	16.8	19.9	17.9
TWIN FALLS	2020	ROR	41.3	44.1	28.9	40.6	35.1	21.7	6.0	6.3	6.3	7.0	9.5	34.7	23.4
UPPER MALAD	2020	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2020	ROR	19.1	18.8	13.7	19.1	19.1	18.2	12.3	13.2	14.8	15.8	15.0	19.2	16.5
UPPER SALMON 3&4	2020	ROR	17.7	17.7	16.5	16.8	17.4	16.8	11.7	12.5	13.9	14.7	14.0	17.7	15.6
<b>HCC TOTAL</b>			<b>626.2</b>	<b>901.8</b>	<b>809.9</b>	<b>980.4</b>	<b>945.1</b>	<b>779.4</b>	<b>527.3</b>	<b>399.0</b>	<b>502.9</b>	<b>456.8</b>	<b>360.0</b>	<b>557.8</b>	<b>652.5</b>
<b>ROR TOTAL</b>			<b>354.3</b>	<b>370.8</b>	<b>305.5</b>	<b>397.3</b>	<b>395.9</b>	<b>345.2</b>	<b>241.9</b>	<b>238.4</b>	<b>238.7</b>	<b>228.1</b>	<b>221.5</b>	<b>326.3</b>	<b>305.0</b>
<b>TOTAL</b>			<b>980.5</b>	<b>1272.6</b>	<b>1115.4</b>	<b>1377.7</b>	<b>1341.0</b>	<b>1124.6</b>	<b>769.2</b>	<b>637.4</b>	<b>741.6</b>	<b>684.9</b>	<b>581.5</b>	<b>884.1</b>	<b>957.5</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2021	HCC	278.3	401.4	348.5	423.4	420.1	347.8	232.1	169.3	213.0	193.4	152.8	246.8	284.6
OXBOW	2021	HCC	116.2	167.2	152.6	184.1	171.3	142.0	98.5	77.5	97.2	88.6	69.4	103.9	122.0
HELLS CANYON	2021	HCC	230.6	332.0	307.7	371.9	352.6	288.6	195.6	152.2	190.8	174.7	138.2	206.0	244.3
1000 SPRINGS	2021	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2021	ROR	22.8	26.0	20.1	57.2	75.7	80.4	67.7	52.0	33.6	16.8	4.7	17.8	39.6
BLISS	2021	ROR	49.6	51.1	44.5	51.0	48.6	42.2	32.8	34.3	37.9	39.7	38.7	47.8	43.1
C.J. STRIKE	2021	ROR	65.2	67.1	59.6	67.2	64.3	52.1	34.8	37.8	45.3	50.4	51.2	61.4	54.6
CASCADE	2021	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2021	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2021	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2021	ROR	35.0	36.4	29.7	34.8	33.4	28.3	20.6	21.5	24.0	25.5	24.4	33.0	28.8
MILNER	2021	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2021	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.7	10.0	10.1	10.9	12.0	12.0	11.4
SWAN FALLS	2021	ROR	21.1	21.6	19.3	21.6	20.5	17.3	12.2	12.8	14.8	16.1	16.7	19.9	17.8
TWIN FALLS	2021	ROR	41.2	44.1	28.9	40.6	35.1	21.6	6.0	6.3	6.3	7.0	9.5	34.7	23.3
UPPER MALAD	2021	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2021	ROR	19.1	18.8	13.7	19.1	19.1	18.2	12.2	13.1	14.8	15.7	14.9	19.2	16.5
UPPER SALMON 3&4	2021	ROR	17.7	17.7	16.5	16.8	17.4	16.8	11.6	12.4	13.8	14.6	14.0	17.7	15.6
<b>HCC TOTAL</b>			<b>625.1</b>	<b>900.6</b>	<b>808.8</b>	<b>979.4</b>	<b>943.9</b>	<b>778.4</b>	<b>526.2</b>	<b>399.0</b>	<b>501.0</b>	<b>456.7</b>	<b>360.4</b>	<b>556.7</b>	<b>651.0</b>
<b>ROR TOTAL</b>			<b>354.0</b>	<b>370.3</b>	<b>305.1</b>	<b>396.7</b>	<b>394.8</b>	<b>344.2</b>	<b>241.2</b>	<b>237.7</b>	<b>238.1</b>	<b>227.6</b>	<b>220.8</b>	<b>325.9</b>	<b>304.2</b>
<b>TOTAL</b>			<b>979.1</b>	<b>1270.9</b>	<b>1113.9</b>	<b>1376.1</b>	<b>1338.7</b>	<b>1122.6</b>	<b>767.4</b>	<b>636.7</b>	<b>739.1</b>	<b>684.3</b>	<b>581.2</b>	<b>882.6</b>	<b>955.2</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**50th Percentile Water, 50th Percentile Load**

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2022	HCC	280.6	396.6	348.0	422.9	419.6	347.2	231.6	169.2	212.3	193.4	152.7	246.8	284.2
OXBOW	2022	HCC	117.3	165.6	152.3	183.9	171.1	141.6	98.3	77.4	96.8	88.5	69.3	103.9	121.8
HELLS CANYON	2022	HCC	232.8	328.7	307.3	371.5	352.3	288.2	195.1	152.0	189.9	174.5	138.1	206.0	244.0
1000 SPRINGS	2022	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2022	ROR	22.9	26.0	20.0	57.2	75.1	79.6	67.4	52.0	33.6	17.0	4.8	17.7	39.5
BLISS	2022	ROR	49.5	51.0	44.3	50.9	48.5	42.1	32.7	34.2	37.8	39.6	38.6	47.5	43.0
C.J. STRIKE	2022	ROR	65.0	66.9	59.4	67.0	64.1	52.1	34.7	37.6	45.1	50.2	51.0	61.2	54.4
CASCADE	2022	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2022	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2022	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2022	ROR	34.9	36.3	29.6	34.7	33.3	28.3	20.5	21.4	23.9	25.4	24.3	32.9	28.7
MILNER	2022	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2022	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.7	10.0	10.0	10.9	12.0	12.0	11.4
SWAN FALLS	2022	ROR	21.1	21.6	19.2	21.6	20.4	17.2	12.1	12.8	14.8	16.1	16.5	19.8	17.7
TWIN FALLS	2022	ROR	41.2	44.0	28.9	40.5	35.1	21.6	5.9	6.2	6.3	7.0	9.5	34.7	23.3
UPPER MALAD	2022	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2022	ROR	19.1	18.8	13.8	19.1	19.1	18.1	12.1	13.0	14.7	15.6	14.9	19.2	16.4
UPPER SALMON 3&4	2022	ROR	17.7	17.7	16.5	16.8	17.4	16.7	11.6	12.3	13.8	14.6	13.9	17.7	15.5
<b>HCC TOTAL</b>			<b>630.7</b>	<b>890.9</b>	<b>807.6</b>	<b>978.3</b>	<b>943.0</b>	<b>777.2</b>	<b>525.0</b>	<b>398.6</b>	<b>498.9</b>	<b>456.4</b>	<b>360.1</b>	<b>556.7</b>	<b>650.0</b>
<b>ROR TOTAL</b>			<b>353.7</b>	<b>369.8</b>	<b>304.5</b>	<b>396.2</b>	<b>393.7</b>	<b>343.0</b>	<b>240.3</b>	<b>237.0</b>	<b>237.5</b>	<b>227.3</b>	<b>220.2</b>	<b>325.5</b>	<b>303.6</b>
<b>TOTAL</b>			<b>984.4</b>	<b>1260.7</b>	<b>1112.1</b>	<b>1374.5</b>	<b>1336.7</b>	<b>1120.2</b>	<b>765.3</b>	<b>635.6</b>	<b>736.4</b>	<b>683.7</b>	<b>580.3</b>	<b>882.2</b>	<b>953.5</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2023	HCC	289.6	394.0	347.5	422.4	419.0	346.7	231.1	168.7	211.0	193.6	152.6	246.2	284.3
OXBOW	2023	HCC	117.8	164.8	152.1	183.7	170.9	141.6	98.1	77.2	96.2	88.5	69.2	103.6	121.8
HELLS CANYON	2023	HCC	231.9	326.9	306.8	371.1	351.9	287.8	194.7	151.6	188.7	174.6	137.9	205.5	243.4
1000 SPRINGS	2023	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2023	ROR	22.9	25.8	19.9	57.0	75.1	79.6	67.3	52.1	33.6	16.9	4.9	17.8	39.5
BLISS	2023	ROR	49.3	50.9	44.2	50.7	48.4	42.0	32.6	34.1	37.7	39.5	38.5	47.4	42.9
C.J. STRIKE	2023	ROR	64.8	66.7	59.2	66.9	63.9	52.1	34.5	37.4	44.9	50.0	50.8	61.1	54.3
CASCADE	2023	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2023	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2023	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2023	ROR	34.9	36.2	29.5	34.7	33.2	28.2	20.4	21.3	23.8	25.3	24.2	32.8	28.7
MILNER	2023	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2023	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.6	10.0	10.0	10.8	12.0	12.0	11.4
SWAN FALLS	2023	ROR	21.0	21.5	19.1	21.6	20.4	17.2	12.1	12.8	14.7	16.1	16.4	19.8	17.7
TWIN FALLS	2023	ROR	41.2	44.0	28.9	40.5	35.0	21.6	5.9	6.2	6.2	6.9	9.5	34.6	23.2
UPPER MALAD	2023	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2023	ROR	19.1	18.8	13.8	19.1	19.1	18.1	12.1	12.9	14.6	15.6	14.8	19.2	16.4
UPPER SALMON 3&4	2023	ROR	17.7	17.7	16.5	16.8	17.4	16.7	11.5	12.3	13.7	14.5	13.8	17.7	15.5
<b>HCC TOTAL</b>			<b>639.3</b>	<b>885.5</b>	<b>806.4</b>	<b>977.2</b>	<b>941.7</b>	<b>776.1</b>	<b>523.9</b>	<b>397.5</b>	<b>495.9</b>	<b>456.7</b>	<b>359.7</b>	<b>555.3</b>	<b>649.3</b>
<b>ROR TOTAL</b>			<b>353.2</b>	<b>369.1</b>	<b>303.9</b>	<b>395.7</b>	<b>393.2</b>	<b>342.8</b>	<b>239.6</b>	<b>236.6</b>	<b>236.7</b>	<b>226.5</b>	<b>219.6</b>	<b>325.2</b>	<b>303.0</b>
<b>TOTAL</b>			<b>992.5</b>	<b>1254.6</b>	<b>1110.3</b>	<b>1372.9</b>	<b>1334.9</b>	<b>1118.9</b>	<b>763.5</b>	<b>634.1</b>	<b>732.6</b>	<b>683.2</b>	<b>579.3</b>	<b>880.5</b>	<b>952.4</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**50th Percentile Water, 50th Percentile Load**

**Abbreviations:**  
HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2024	HCC	280.5	394.2	347.0	421.9	418.5	346.1	230.6	168.3	209.8	193.7	152.8	245.7	283.5
OXBOW	2024	HCC	117.3	164.7	151.9	183.5	170.7	141.4	97.8	77.0	95.5	88.4	69.3	103.4	121.5
HELLS CANYON	2024	HCC	232.8	327.0	306.4	370.7	351.5	287.3	194.3	151.2	187.5	174.4	138.0	205.1	243.4
1000 SPRINGS	2024	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2024	ROR	23.0	25.8	19.9	56.9	74.4	79.1	67.4	52.1	33.7	17.1	5.0	17.8	39.4
BLISS	2024	ROR	49.2	50.8	44.1	50.8	48.2	41.8	32.4	33.9	37.5	39.3	38.3	47.3	42.7
C.J. STRIKE	2024	ROR	64.6	66.6	59.0	66.7	63.8	52.1	34.3	37.3	44.8	49.9	50.6	60.9	54.2
CASCADE	2024	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2024	ROR	1.8	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2024	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2024	ROR	34.8	36.1	29.4	34.5	33.1	28.1	20.3	21.2	23.7	25.2	24.1	32.7	28.6
MILNER	2024	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2024	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.6	9.9	10.0	10.8	12.0	12.0	11.4
SWAN FALLS	2024	ROR	21.0	21.5	19.1	21.5	20.3	17.1	12.0	12.7	14.6	16.0	16.4	19.7	17.6
TWIN FALLS	2024	ROR	41.2	44.0	28.9	40.5	35.0	21.6	5.8	6.1	6.2	6.9	9.5	34.6	23.3
UPPER MALAD	2024	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2024	ROR	19.1	18.8	13.8	19.1	19.1	18.0	12.0	12.9	14.5	15.5	14.7	19.2	16.4
UPPER SALMON 3&4	2024	ROR	17.7	17.7	16.5	16.8	17.4	16.6	11.4	12.2	13.6	14.4	13.8	17.7	15.5
<b>HCC TOTAL</b>			<b>630.6</b>	<b>885.9</b>	<b>805.3</b>	<b>976.1</b>	<b>940.6</b>	<b>774.8</b>	<b>522.7</b>	<b>396.5</b>	<b>492.8</b>	<b>456.5</b>	<b>360.1</b>	<b>554.2</b>	<b>648.4</b>
<b>ROR TOTAL</b>			<b>352.9</b>	<b>368.8</b>	<b>303.5</b>	<b>395.0</b>	<b>392.0</b>	<b>341.7</b>	<b>238.8</b>	<b>235.8</b>	<b>236.1</b>	<b>226.0</b>	<b>219.1</b>	<b>324.7</b>	<b>302.6</b>
<b>TOTAL</b>			<b>983.5</b>	<b>1254.7</b>	<b>1108.8</b>	<b>1371.1</b>	<b>1332.6</b>	<b>1116.5</b>	<b>761.5</b>	<b>632.3</b>	<b>728.8</b>	<b>682.5</b>	<b>579.2</b>	<b>878.9</b>	<b>950.9</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2025	HCC	291.5	388.7	346.5	421.3	418.0	345.6	230.1	167.8	208.4	194.0	152.9	245.2	283.3
OXBOW	2025	HCC	118.7	162.7	151.7	183.3	170.5	141.1	97.6	76.8	94.7	88.5	69.3	103.2	121.2
HELLS CANYON	2025	HCC	233.7	323.2	306.0	370.2	351.1	286.9	193.9	150.8	186.0	174.5	138.1	204.7	242.6
1000 SPRINGS	2025	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2025	ROR	23.1	25.8	19.8	57.0	74.1	78.7	67.2	52.0	33.7	17.1	5.1	17.9	39.4
BLISS	2025	ROR	49.1	50.7	44.0	50.5	48.1	41.7	32.3	33.8	37.4	39.2	38.2	47.1	42.6
C.J. STRIKE	2025	ROR	64.5	66.4	58.9	66.5	63.6	51.4	34.2	37.1	44.6	49.7	50.5	60.7	53.9
CASCADE	2025	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2025	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2025	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2025	ROR	34.7	36.1	29.3	34.5	33.0	28.0	20.3	21.1	23.6	25.1	24.0	32.6	28.5
MILNER	2025	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2025	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.5	9.9	9.9	10.7	12.0	12.0	11.3
SWAN FALLS	2025	ROR	20.9	21.4	19.1	21.5	20.3	17.0	12.0	12.6	14.6	16.0	16.3	19.7	17.6
TWIN FALLS	2025	ROR	41.1	43.9	28.9	40.5	35.0	21.5	5.8	6.1	6.2	6.8	9.5	34.6	23.2
UPPER MALAD	2025	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2025	ROR	19.1	18.8	13.8	19.1	19.1	17.9	11.9	12.8	14.4	15.4	14.6	19.2	16.3
UPPER SALMON 3&4	2025	ROR	17.7	17.7	16.5	16.8	17.4	16.6	11.4	12.1	13.6	14.4	13.7	17.7	15.5
<b>HCC TOTAL</b>			<b>643.9</b>	<b>874.6</b>	<b>804.2</b>	<b>974.8</b>	<b>939.5</b>	<b>773.6</b>	<b>521.6</b>	<b>395.4</b>	<b>489.1</b>	<b>457.0</b>	<b>360.3</b>	<b>553.1</b>	<b>647.1</b>
<b>ROR TOTAL</b>			<b>352.5</b>	<b>368.3</b>	<b>303.1</b>	<b>394.8</b>	<b>391.3</b>	<b>340.1</b>	<b>238.2</b>	<b>235.0</b>	<b>235.5</b>	<b>225.3</b>	<b>218.6</b>	<b>324.3</b>	<b>301.8</b>
<b>TOTAL</b>			<b>996.4</b>	<b>1242.9</b>	<b>1107.3</b>	<b>1369.6</b>	<b>1330.8</b>	<b>1113.7</b>	<b>759.8</b>	<b>630.4</b>	<b>724.6</b>	<b>682.3</b>	<b>578.9</b>	<b>877.4</b>	<b>948.8</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**50th Percentile Water, 50th Percentile Load**

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2026	HCC	290.8	388.4	346.0	420.8	417.5	342.2	229.6	167.3	207.2	194.0	153.1	244.7	282.6
OXBOW	2026	HCC	118.4	162.6	151.5	183.1	170.3	139.8	97.4	78.5	94.1	88.4	69.4	103.0	120.9
HELLS CANYON	2026	HCC	233.1	323.0	305.6	369.9	350.7	284.3	193.5	150.4	184.8	174.3	138.2	204.2	242.0
1000 SPRINGS	2026	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2026	ROR	23.2	25.8	19.7	56.9	73.6	78.2	67.0	52.0	33.7	17.1	5.1	18.1	39.3
BLISS	2026	ROR	49.0	50.6	43.8	50.4	48.0	41.5	32.2	33.7	37.3	39.1	38.1	47.0	42.5
C.J. STRIKE	2026	ROR	64.3	66.2	58.7	66.4	63.4	51.3	34.0	38.9	44.4	49.5	50.3	60.6	53.7
CASCADE	2026	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2026	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2026	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2026	ROR	34.6	36.0	29.2	34.4	32.9	27.9	20.2	21.0	23.5	25.0	23.9	32.5	28.4
MILNER	2026	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2026	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.5	9.8	9.9	10.7	12.0	12.0	11.3
SWAN FALLS	2026	ROR	20.9	21.4	19.0	21.4	20.2	17.0	11.9	12.6	14.5	15.9	16.3	19.6	17.5
TWIN FALLS	2026	ROR	41.1	43.9	28.9	40.4	34.9	21.5	5.8	8.1	6.1	6.8	9.5	34.5	23.2
UPPER MALAD	2026	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2026	ROR	19.1	18.8	13.8	19.1	19.1	17.8	11.8	12.7	14.4	15.4	14.5	19.2	16.3
UPPER SALMON 3&4	2026	ROR	17.7	17.7	16.5	16.8	17.4	16.5	11.3	12.1	13.5	14.3	13.6	17.7	15.4
<b>HCC TOTAL</b>			<b>642.3</b>	<b>874.0</b>	<b>803.1</b>	<b>973.8</b>	<b>938.4</b>	<b>766.3</b>	<b>520.5</b>	<b>394.2</b>	<b>486.0</b>	<b>456.7</b>	<b>360.7</b>	<b>551.9</b>	<b>645.5</b>
<b>ROR TOTAL</b>			<b>352.2</b>	<b>367.9</b>	<b>302.4</b>	<b>394.2</b>	<b>390.2</b>	<b>339.0</b>	<b>237.3</b>	<b>234.4</b>	<b>234.8</b>	<b>224.7</b>	<b>218.0</b>	<b>324.0</b>	<b>301.1</b>
<b>TOTAL</b>			<b>994.5</b>	<b>1241.9</b>	<b>1105.5</b>	<b>1368.0</b>	<b>1328.6</b>	<b>1105.3</b>	<b>757.8</b>	<b>628.6</b>	<b>720.8</b>	<b>681.4</b>	<b>578.7</b>	<b>875.9</b>	<b>946.6</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2027	HCC	290.9	387.0	345.5	420.4	417.0	329.5	229.1	166.9	206.0	194.1	153.0	244.6	281.2
OXBOW	2027	HCC	118.5	162.1	151.3	182.9	170.0	134.8	97.2	78.3	93.5	88.3	69.3	102.9	120.3
HELLS CANYON	2027	HCC	233.3	322.0	305.2	369.5	350.3	274.5	193.1	150.0	183.5	174.2	138.0	204.2	240.8
1000 SPRINGS	2027	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2027	ROR	23.3	25.9	19.7	56.8	73.4	77.7	66.7	52.0	33.3	17.0	5.1	18.2	39.2
BLISS	2027	ROR	48.9	50.4	43.7	50.3	47.9	41.4	32.0	33.5	37.1	39.0	38.0	46.9	42.4
C.J. STRIKE	2027	ROR	64.1	66.0	58.5	66.2	63.2	51.1	33.8	36.7	44.3	49.3	50.1	60.4	53.5
CASCADE	2027	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2027	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2027	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2027	ROR	34.5	35.9	29.1	34.3	32.8	27.8	20.1	20.9	23.4	24.9	23.8	32.4	28.3
MILNER	2027	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2027	ROR	12.0	12.0	12.0	12.0	12.0	12.0	8.4	8.8	8.8	10.6	12.0	12.0	11.3
SWAN FALLS	2027	ROR	20.8	21.3	19.0	21.4	20.2	17.0	11.9	12.5	14.5	15.9	16.2	19.6	17.5
TWIN FALLS	2027	ROR	41.1	43.9	28.9	40.4	34.9	21.4	5.7	6.0	6.1	6.8	9.5	34.5	23.1
UPPER MALAD	2027	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2027	ROR	19.1	18.8	13.8	19.1	19.1	17.8	11.8	12.6	14.3	15.3	14.5	19.2	16.3
UPPER SALMON 3&4	2027	ROR	17.7	17.7	16.5	16.8	17.4	16.4	11.3	12.0	13.4	14.3	13.6	17.7	15.4
<b>HCC TOTAL</b>			<b>642.7</b>	<b>871.1</b>	<b>802.0</b>	<b>972.8</b>	<b>937.3</b>	<b>738.8</b>	<b>519.4</b>	<b>393.2</b>	<b>482.9</b>	<b>456.6</b>	<b>360.3</b>	<b>551.7</b>	<b>642.3</b>
<b>ROR TOTAL</b>			<b>351.8</b>	<b>367.4</b>	<b>302.0</b>	<b>393.7</b>	<b>389.6</b>	<b>337.9</b>	<b>236.3</b>	<b>233.5</b>	<b>233.7</b>	<b>224.0</b>	<b>217.5</b>	<b>323.7</b>	<b>300.4</b>
<b>TOTAL</b>			<b>994.5</b>	<b>1238.5</b>	<b>1104.0</b>	<b>1366.5</b>	<b>1326.8</b>	<b>1076.7</b>	<b>755.7</b>	<b>626.7</b>	<b>716.6</b>	<b>680.6</b>	<b>577.8</b>	<b>875.4</b>	<b>942.7</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**50th Percentile Water, 50th Percentile Load**

**Abbreviations:**  
HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2028	HCC	293.2	382.4	345.0	419.9	416.5	329.0	228.6	166.4	204.8	194.1	153.2	244.1	280.9
OXBOW	2028	HCC	119.6	160.5	151.1	182.7	169.9	134.6	97.0	76.1	92.8	88.2	69.4	102.7	120.2
HELLS CANYON	2028	HCC	235.4	318.8	304.8	369.1	349.9	274.1	192.6	149.6	182.3	174.0	138.2	203.8	240.6
1000 SPRINGS	2028	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2028	ROR	23.3	25.9	19.6	56.7	73.5	77.5	66.3	51.9	32.7	16.9	5.1	18.3	39.0
BLISS	2028	ROR	48.7	50.3	43.6	50.1	47.8	41.3	31.9	33.4	37.0	38.8	37.8	46.8	42.3
C.J. STRIKE	2028	ROR	64.0	65.9	58.4	66.0	63.1	50.9	33.6	36.5	44.1	49.2	49.9	60.2	53.4
CASCADE	2028	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2028	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2028	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2028	ROR	34.4	35.8	29.0	34.1	32.7	27.7	19.9	20.8	23.3	24.8	23.8	32.3	28.2
MILNER	2028	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2028	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.4	9.7	9.8	10.6	12.0	12.0	11.3
SWAN FALLS	2028	ROR	20.8	21.3	18.9	21.3	20.1	16.9	11.8	12.5	14.4	15.8	16.2	19.5	17.4
TWIN FALLS	2028	ROR	41.0	43.9	28.9	40.4	34.9	21.4	5.7	6.0	6.0	6.7	9.5	34.5	23.2
UPPER MALAD	2028	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2028	ROR	19.1	18.8	13.8	19.1	19.2	17.7	11.7	12.5	14.2	15.2	14.4	19.2	16.2
UPPER SALMON 3&4	2028	ROR	17.7	17.7	16.5	16.8	17.4	16.3	11.2	11.9	13.4	14.2	13.5	17.7	15.3
<b>HCC TOTAL</b>			<b>648.2</b>	<b>861.7</b>	<b>800.9</b>	<b>971.7</b>	<b>936.2</b>	<b>737.7</b>	<b>518.2</b>	<b>392.1</b>	<b>479.8</b>	<b>456.3</b>	<b>360.8</b>	<b>550.6</b>	<b>641.7</b>
<b>ROR TOTAL</b>			<b>351.3</b>	<b>367.1</b>	<b>301.5</b>	<b>392.9</b>	<b>389.4</b>	<b>337.0</b>	<b>235.1</b>	<b>232.7</b>	<b>232.4</b>	<b>223.1</b>	<b>216.9</b>	<b>323.3</b>	<b>299.9</b>
<b>TOTAL</b>			<b>999.5</b>	<b>1228.8</b>	<b>1102.4</b>	<b>1364.6</b>	<b>1325.6</b>	<b>1074.7</b>	<b>753.3</b>	<b>624.8</b>	<b>712.2</b>	<b>679.4</b>	<b>577.7</b>	<b>873.9</b>	<b>941.6</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2029	HCC	293.5	380.7	344.5	419.3	416.0	328.5	228.1	166.0	203.6	194.3	153.1	243.6	280.2
OXBOW	2029	HCC	119.7	159.9	150.9	182.5	169.7	134.3	96.8	75.9	92.2	88.3	69.3	102.5	119.8
HELLS CANYON	2029	HCC	235.7	317.6	304.4	368.6	349.5	273.7	192.2	149.2	181.1	174.1	138.0	203.3	240.0
1000 SPRINGS	2029	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2029	ROR	23.3	25.9	19.6	56.7	73.4	77.4	66.3	51.8	32.0	16.7	5.0	18.4	38.9
BLISS	2029	ROR	48.6	50.2	43.5	50.0	47.6	40.8	31.8	33.3	36.9	38.7	37.7	46.6	42.1
C.J. STRIKE	2029	ROR	63.8	65.7	58.2	65.8	62.9	50.1	33.4	36.4	43.9	49.0	49.8	60.0	53.2
CASCADE	2029	ROR	1.5	2.6	4.7	7.6	7.3	11.8	6.9	10.1	9.1	2.7	2.2	1.5	5.7
CLEAR LAKE	2029	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2029	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2029	ROR	34.3	35.7	28.9	34.1	32.6	27.6	19.8	20.7	23.2	24.7	23.7	32.2	28.1
MILNER	2029	ROR	41.6	45.2	28.4	41.0	34.5	17.6	0.0	0.0	0.0	0.0	5.0	34.0	20.5
SHOSHONE FALLS	2029	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.4	9.7	9.7	10.6	12.0	12.0	11.3
SWAN FALLS	2029	ROR	20.5	21.2	18.9	21.3	20.1	16.5	11.7	12.5	14.4	15.8	16.1	19.5	17.3
TWIN FALLS	2029	ROR	41.0	43.8	28.9	40.3	34.8	21.4	5.7	6.0	6.0	6.7	9.5	34.5	23.1
UPPER MALAD	2029	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2029	ROR	19.1	18.8	13.8	19.1	19.2	17.6	11.8	12.5	14.1	15.1	14.4	19.2	16.2
UPPER SALMON 3&4	2029	ROR	17.7	17.7	16.5	16.8	17.4	16.3	11.1	11.9	13.3	14.2	13.5	17.7	15.3
<b>HCC TOTAL</b>			<b>648.9</b>	<b>858.2</b>	<b>799.8</b>	<b>970.4</b>	<b>935.1</b>	<b>736.5</b>	<b>517.1</b>	<b>391.1</b>	<b>476.9</b>	<b>456.7</b>	<b>360.4</b>	<b>549.4</b>	<b>640.0</b>
<b>ROR TOTAL</b>			<b>350.6</b>	<b>366.5</b>	<b>301.1</b>	<b>392.5</b>	<b>388.7</b>	<b>335.0</b>	<b>234.4</b>	<b>232.3</b>	<b>231.0</b>	<b>222.4</b>	<b>216.4</b>	<b>322.9</b>	<b>299.0</b>
<b>TOTAL</b>			<b>999.5</b>	<b>1224.7</b>	<b>1100.9</b>	<b>1362.9</b>	<b>1323.8</b>	<b>1071.5</b>	<b>751.5</b>	<b>623.4</b>	<b>707.8</b>	<b>679.1</b>	<b>576.8</b>	<b>872.3</b>	<b>939.0</b>

2009 Integrated Resource Plan  
 Average Megawatt Hydro Output from PDR580  
 70th Percentile Water, 70th Percentile Load

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2010	HCC	289.4	281.7	270.0	311.8	382.5	301.2	224.9	180.8	180.8	186.9	156.0	211.5	243.0
OXBOW	2010	HCC	114.3	112.4	115.2	127.3	153.6	121.0	95.1	73.3	82.4	83.2	69.5	88.5	102.9
HELLS CANYON	2010	HCC	225.9	223.8	234.6	258.1	312.3	244.8	187.7	144.0	161.7	164.0	138.1	175.4	205.8
1000 SPRINGS	2010	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2010	ROR	0.0	14.3	13.6	37.0	71.4	87.1	80.8	59.2	34.1	15.7	0.0	0.0	34.5
BLISS	2010	ROR	39.3	45.2	40.2	38.3	42.0	41.1	36.8	35.0	38.0	39.5	37.9	38.2	39.2
C.J. STRIKE	2010	ROR	50.9	56.0	53.0	49.4	53.5	48.1	39.8	38.3	45.6	50.8	50.1	50.3	48.8
CASCADE	2010	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2010	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2010	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2010	ROR	24.4	30.5	25.6	23.3	28.3	28.5	24.1	22.0	24.3	25.7	24.3	24.5	25.4
MILNER	2010	ROR	9.0	26.9	12.6	4.9	17.0	17.6	9.4	0.0	0.0	0.0	3.5	6.5	8.8
SHOSHONE FALLS	2010	ROR	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.4	10.4	11.2	12.0	12.0	11.7
SWAN FALLS	2010	ROR	16.7	18.3	17.6	16.9	17.5	15.8	13.6	13.0	14.7	16.1	16.2	16.2	16.0
TWIN FALLS	2010	ROR	12.2	28.6	16.0	8.8	20.2	21.9	14.0	6.5	6.5	7.3	6.7	10.1	13.3
UPPER MALAD	2010	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2010	ROR	15.1	18.9	13.8	14.5	18.3	18.3	14.9	13.4	15.0	15.9	14.8	15.1	15.6
UPPER SALMON 3&4	2010	ROR	14.1	17.7	15.1	13.6	16.9	16.9	14.0	12.7	14.1	14.8	13.9	14.1	14.8
<b>HCC TOTAL</b>			<b>609.6</b>	<b>597.9</b>	<b>619.8</b>	<b>697.0</b>	<b>848.4</b>	<b>667.0</b>	<b>507.7</b>	<b>377.9</b>	<b>424.8</b>	<b>434.1</b>	<b>363.6</b>	<b>475.4</b>	<b>551.7</b>
<b>ROR TOTAL</b>			<b>220.9</b>	<b>296.1</b>	<b>249.8</b>	<b>248.0</b>	<b>328.8</b>	<b>340.8</b>	<b>293.0</b>	<b>248.0</b>	<b>240.2</b>	<b>227.4</b>	<b>210.3</b>	<b>215.7</b>	<b>259.6</b>
<b>TOTAL</b>			<b>830.5</b>	<b>894.0</b>	<b>869.6</b>	<b>945.0</b>	<b>1177.2</b>	<b>1007.8</b>	<b>800.7</b>	<b>625.9</b>	<b>665.0</b>	<b>661.5</b>	<b>573.9</b>	<b>691.1</b>	<b>811.3</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2011	HCC	299.4	230.8	269.9	311.5	382.4	301.1	224.8	160.5	180.7	186.8	155.9	211.3	243.1
OXBOW	2011	HCC	124.8	100.5	115.2	127.3	153.5	121.0	95.1	73.3	82.4	83.2	69.5	88.4	102.9
HELLS CANYON	2011	HCC	244.6	200.6	234.5	258.0	312.2	244.7	187.6	143.9	161.7	164.0	138.0	175.3	205.5
1000 SPRINGS	2011	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2011	ROR	0.0	14.2	13.5	37.5	71.0	86.7	80.8	58.7	34.0	15.7	0.0	0.0	34.4
BLISS	2011	ROR	39.3	45.2	40.2	38.2	41.9	41.0	36.8	35.0	38.0	39.5	37.9	38.1	39.2
C.J. STRIKE	2011	ROR	50.9	56.0	52.9	49.4	53.5	48.0	39.8	38.2	45.5	50.7	50.1	50.2	48.7
CASCADE	2011	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2011	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2011	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2011	ROR	24.4	30.5	25.6	23.3	28.2	28.5	24.1	22.0	24.3	25.7	24.3	24.5	25.4
MILNER	2011	ROR	9.0	26.9	12.6	4.9	17.0	17.6	9.4	0.0	0.0	0.0	3.5	6.4	8.8
SHOSHONE FALLS	2011	ROR	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.4	10.4	11.2	12.0	12.0	11.7
SWAN FALLS	2011	ROR	16.7	18.3	17.6	16.9	17.5	15.8	13.6	12.9	14.7	16.1	16.2	16.2	16.0
TWIN FALLS	2011	ROR	12.2	28.6	16.0	8.8	20.2	21.9	14.0	6.5	6.5	7.3	6.7	10.1	13.3
UPPER MALAD	2011	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2011	ROR	15.1	18.9	13.8	14.5	18.3	18.3	14.9	13.4	15.0	15.9	14.8	15.1	15.6
UPPER SALMON 3&4	2011	ROR	14.1	17.7	15.1	13.6	16.9	16.9	14.0	12.7	14.0	14.8	13.9	14.1	14.8
<b>HCC TOTAL</b>			<b>668.8</b>	<b>531.9</b>	<b>619.6</b>	<b>696.8</b>	<b>848.1</b>	<b>666.8</b>	<b>507.5</b>	<b>377.7</b>	<b>424.7</b>	<b>434.0</b>	<b>363.4</b>	<b>475.0</b>	<b>551.5</b>
<b>ROR TOTAL</b>			<b>220.9</b>	<b>296.0</b>	<b>249.6</b>	<b>248.4</b>	<b>328.2</b>	<b>340.2</b>	<b>293.0</b>	<b>247.3</b>	<b>239.8</b>	<b>227.3</b>	<b>210.3</b>	<b>215.4</b>	<b>259.4</b>
<b>TOTAL</b>			<b>889.7</b>	<b>827.9</b>	<b>869.2</b>	<b>945.2</b>	<b>1176.3</b>	<b>1007.0</b>	<b>800.5</b>	<b>625.0</b>	<b>664.5</b>	<b>661.3</b>	<b>573.7</b>	<b>690.4</b>	<b>810.9</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**70th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
**HCC - Hells Canyon Complex**  
**ROR - Run of River**

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2012	HCC	306.3	220.9	269.8	311.4	382.3	301.0	224.7	180.4	180.6	186.7	155.8	211.1	242.8
OXBOW	2012	HCC	128.1	96.6	115.1	127.3	153.5	121.0	95.0	73.2	82.4	83.1	69.4	88.3	102.8
HELLS CANYON	2012	HCC	251.1	193.1	234.4	258.0	312.2	244.6	187.5	143.8	161.6	163.9	137.9	175.1	205.4
1000 SPRINGS	2012	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2012	ROR	0.0	14.2	13.5	39.1	70.9	86.4	80.6	58.3	33.8	15.8	0.0	0.0	34.4
BLISS	2012	ROR	39.3	45.2	40.1	38.2	41.9	41.0	36.7	35.0	38.0	39.5	37.9	38.1	39.2
C.J. STRIKE	2012	ROR	50.8	55.9	52.9	49.3	53.5	48.0	39.7	38.1	45.5	50.7	50.0	50.2	48.7
CASCADE	2012	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2012	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2012	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2012	ROR	24.4	30.5	25.6	23.2	28.2	28.5	24.1	21.9	24.3	25.6	24.3	24.4	25.4
MILNER	2012	ROR	8.9	26.9	12.6	4.9	17.0	17.6	9.4	0.0	0.0	0.0	3.5	6.4	8.9
SHOSHONE FALLS	2012	ROR	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.4	10.4	11.2	12.0	12.0	11.7
SWAN FALLS	2012	ROR	16.5	18.3	17.6	16.9	17.5	15.8	13.6	12.9	14.7	16.1	16.2	16.2	16.0
TWIN FALLS	2012	ROR	12.1	28.6	16.0	8.8	20.2	21.9	14.0	6.5	6.5	7.3	8.7	10.0	13.3
UPPER MALAD	2012	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2012	ROR	15.1	18.9	13.8	14.4	18.3	18.3	14.9	13.4	15.0	15.8	14.8	15.0	15.6
UPPER SALMON 3&4	2012	ROR	14.1	17.7	15.1	13.5	16.9	16.8	13.9	12.7	14.0	14.8	13.9	14.1	14.8
<b>HCC TOTAL</b>			<b>685.5</b>	<b>510.6</b>	<b>619.3</b>	<b>696.7</b>	<b>847.9</b>	<b>666.6</b>	<b>507.2</b>	<b>377.4</b>	<b>424.5</b>	<b>433.7</b>	<b>363.1</b>	<b>474.5</b>	<b>550.9</b>
<b>ROR TOTAL</b>			<b>220.4</b>	<b>295.9</b>	<b>249.5</b>	<b>249.6</b>	<b>328.1</b>	<b>339.8</b>	<b>292.5</b>	<b>246.7</b>	<b>239.6</b>	<b>227.2</b>	<b>210.2</b>	<b>215.1</b>	<b>259.4</b>
<b>TOTAL</b>			<b>905.9</b>	<b>806.5</b>	<b>868.8</b>	<b>946.3</b>	<b>1176.0</b>	<b>1006.4</b>	<b>799.7</b>	<b>624.1</b>	<b>664.1</b>	<b>660.9</b>	<b>573.3</b>	<b>689.6</b>	<b>810.3</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2013	HCC	306.2	222.3	267.7	311.3	382.2	300.9	224.6	160.3	180.5	186.4	156.1	210.9	242.7
OXBOW	2013	HCC	128.1	97.3	114.3	127.2	153.5	120.9	95.0	73.2	82.3	83.0	69.6	88.2	102.8
HELLS CANYON	2013	HCC	251.0	194.5	232.9	257.9	312.1	244.6	187.4	143.7	161.5	163.6	138.1	174.9	205.3
1000 SPRINGS	2013	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2013	ROR	0.0	14.2	13.4	39.0	70.8	86.1	80.2	57.3	33.6	15.8	0.0	0.0	34.3
BLISS	2013	ROR	39.3	45.2	40.1	38.2	41.9	41.0	36.7	35.0	38.0	39.4	37.8	38.1	39.2
C.J. STRIKE	2013	ROR	50.6	55.8	52.9	49.3	53.4	47.9	39.7	38.1	45.5	50.7	50.0	50.1	48.6
CASCADE	2013	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2013	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2013	ROR	12.1	12.5	12.8	13.0	12.6	11.8	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2013	ROR	24.4	30.5	25.6	23.2	28.2	28.4	24.1	21.9	24.3	25.6	24.2	24.4	25.4
MILNER	2013	ROR	8.9	26.9	12.6	4.9	17.0	17.6	9.4	0.0	0.0	0.0	3.5	6.3	8.8
SHOSHONE FALLS	2013	ROR	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.4	10.4	11.2	12.0	12.0	11.7
SWAN FALLS	2013	ROR	16.5	18.3	17.6	16.9	17.5	15.8	13.6	12.9	14.7	16.1	16.2	16.2	16.0
TWIN FALLS	2013	ROR	12.0	28.6	16.0	8.8	20.2	21.9	14.0	6.5	6.5	7.3	8.7	10.0	13.3
UPPER MALAD	2013	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2013	ROR	15.1	18.9	13.8	14.4	18.3	18.3	14.9	13.4	15.0	15.8	14.8	15.0	15.6
UPPER SALMON 3&4	2013	ROR	14.1	17.7	15.1	13.5	16.9	16.8	13.9	12.7	14.0	14.8	13.8	14.0	14.8
<b>HCC TOTAL</b>			<b>685.3</b>	<b>514.1</b>	<b>614.9</b>	<b>696.4</b>	<b>847.7</b>	<b>666.4</b>	<b>507.0</b>	<b>377.2</b>	<b>424.2</b>	<b>433.0</b>	<b>363.8</b>	<b>474.0</b>	<b>550.8</b>
<b>ROR TOTAL</b>			<b>220.1</b>	<b>295.8</b>	<b>249.4</b>	<b>249.5</b>	<b>327.9</b>	<b>339.3</b>	<b>292.1</b>	<b>245.7</b>	<b>239.4</b>	<b>227.1</b>	<b>209.9</b>	<b>214.8</b>	<b>258.9</b>
<b>TOTAL</b>			<b>905.4</b>	<b>809.9</b>	<b>864.3</b>	<b>945.9</b>	<b>1175.6</b>	<b>1005.7</b>	<b>799.1</b>	<b>622.9</b>	<b>663.6</b>	<b>660.1</b>	<b>573.7</b>	<b>688.8</b>	<b>809.7</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**70th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2014	HCC	305.7	228.2	259.2	310.8	381.6	300.4	210.5	159.9	179.9	185.9	156.0	209.9	240.8
OXBOW	2014	HCC	127.8	100.3	111.1	127.0	153.2	120.7	89.0	73.0	82.0	82.8	69.5	87.8	102.1
HELLS CANYON	2014	HCC	250.6	200.3	226.6	257.5	311.6	244.2	175.8	143.3	161.0	163.2	138.0	174.2	203.9
1000 SPRINGS	2014	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2014	ROR	0.0	14.0	12.6	38.6	70.5	85.4	74.3	55.6	33.0	15.8	0.0	0.0	33.4
BLISS	2014	ROR	39.1	45.2	40.0	38.1	41.8	40.9	33.1	34.8	37.8	39.3	37.7	37.9	38.8
C.J. STRIKE	2014	ROR	50.4	55.5	52.7	49.1	53.3	47.8	34.9	37.9	45.3	50.5	49.8	49.8	48.0
CASCADE	2014	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2014	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2014	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2014	ROR	24.2	30.5	25.5	23.1	28.1	28.3	20.9	21.8	24.2	25.5	24.1	24.2	25.0
MILNER	2014	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2014	ROR	12.0	12.0	12.0	12.0	12.0	12.0	10.0	10.3	10.3	11.1	12.0	12.0	11.5
SWAN FALLS	2014	ROR	16.4	18.2	17.5	16.9	17.5	15.7	12.1	12.8	14.7	16.0	16.1	16.2	15.8
TWIN FALLS	2014	ROR	11.9	28.6	16.0	8.8	20.2	21.8	6.2	6.5	6.5	7.2	6.7	9.8	12.6
UPPER MALAD	2014	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2014	ROR	14.9	18.9	13.8	14.3	18.2	18.2	12.4	13.3	14.9	15.8	14.7	14.8	15.3
UPPER SALMON 3&4	2014	ROR	14.0	17.7	15.0	13.5	16.8	16.8	11.8	12.6	14.0	14.7	13.8	13.9	14.5
<b>HCC TOTAL</b>			<b>684.2</b>	<b>528.8</b>	<b>596.9</b>	<b>695.3</b>	<b>846.4</b>	<b>665.3</b>	<b>475.3</b>	<b>376.2</b>	<b>422.8</b>	<b>431.9</b>	<b>383.5</b>	<b>471.9</b>	<b>546.8</b>
<b>ROR TOTAL</b>			<b>218.8</b>	<b>295.2</b>	<b>248.0</b>	<b>248.6</b>	<b>327.1</b>	<b>338.0</b>	<b>249.3</b>	<b>243.1</b>	<b>238.1</b>	<b>226.3</b>	<b>209.3</b>	<b>213.3</b>	<b>254.2</b>
<b>TOTAL</b>			<b>903.0</b>	<b>824.0</b>	<b>844.9</b>	<b>943.9</b>	<b>1173.5</b>	<b>1003.3</b>	<b>724.6</b>	<b>619.3</b>	<b>660.9</b>	<b>658.2</b>	<b>572.8</b>	<b>685.2</b>	<b>801.0</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2015	HCC	305.2	230.6	255.1	310.2	381.1	299.8	210.0	159.4	179.3	185.1	156.3	209.4	240.2
OXBOW	2015	HCC	127.7	101.5	109.5	126.8	153.0	120.5	88.8	72.7	81.8	82.4	69.6	87.6	101.8
HELLS CANYON	2015	HCC	250.2	202.7	223.6	257.0	311.2	243.7	175.4	142.9	160.4	162.4	138.2	173.7	203.5
1000 SPRINGS	2015	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2015	ROR	0.0	14.0	12.2	38.0	70.0	84.4	73.2	55.0	32.8	15.6	0.0	0.0	33.0
BLISS	2015	ROR	39.0	45.2	39.9	37.9	41.6	40.7	33.0	34.7	37.7	39.2	37.6	37.8	38.6
C.J. STRIKE	2015	ROR	50.2	55.5	52.5	48.9	53.1	47.6	34.7	37.7	45.1	50.3	49.6	49.6	47.8
CASCADE	2015	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2015	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2015	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2015	ROR	24.1	30.5	25.4	23.0	28.0	28.3	20.8	21.7	24.1	25.4	24.0	24.1	24.9
MILNER	2015	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2015	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.9	10.3	10.3	11.1	12.0	12.0	11.5
SWAN FALLS	2015	ROR	16.3	18.2	17.5	16.8	17.5	15.7	12.1	12.8	14.6	16.0	16.1	16.1	15.8
TWIN FALLS	2015	ROR	11.9	28.6	15.9	8.7	20.1	21.8	6.1	6.4	6.4	7.2	6.7	9.8	12.5
UPPER MALAD	2015	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2015	ROR	14.8	18.9	13.8	14.3	18.1	18.1	12.4	13.2	14.8	15.7	14.6	14.8	15.3
UPPER SALMON 3&4	2015	ROR	13.9	17.7	14.9	13.4	16.7	16.7	11.8	12.5	13.9	14.6	13.7	13.8	14.4
<b>HCC TOTAL</b>			<b>683.1</b>	<b>534.8</b>	<b>588.2</b>	<b>694.0</b>	<b>845.3</b>	<b>664.0</b>	<b>474.2</b>	<b>375.0</b>	<b>421.5</b>	<b>429.9</b>	<b>364.1</b>	<b>470.7</b>	<b>545.6</b>
<b>ROR TOTAL</b>			<b>218.1</b>	<b>295.2</b>	<b>247.0</b>	<b>247.2</b>	<b>325.8</b>	<b>336.4</b>	<b>247.6</b>	<b>241.8</b>	<b>237.1</b>	<b>225.5</b>	<b>208.7</b>	<b>212.7</b>	<b>253.2</b>
<b>TOTAL</b>			<b>901.2</b>	<b>830.0</b>	<b>835.2</b>	<b>941.2</b>	<b>1171.1</b>	<b>1000.4</b>	<b>721.8</b>	<b>616.8</b>	<b>658.6</b>	<b>655.4</b>	<b>572.8</b>	<b>683.4</b>	<b>798.8</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**70th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2016	HCC	304.6	229.0	256.0	309.7	380.6	299.2	209.5	159.0	178.8	184.6	155.9	209.3	239.8
OXBOW	2016	HCC	127.5	100.8	109.8	126.6	152.8	120.3	88.6	72.5	81.5	82.2	69.4	87.6	101.7
HELLS CANYON	2016	HCC	249.8	201.2	224.2	256.6	310.9	243.3	175.0	142.5	160.0	162.0	137.9	173.6	203.1
1000 SPRINGS	2016	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2016	ROR	0.0	14.0	12.0	37.6	70.3	84.1	72.7	54.5	32.9	15.7	0.0	0.0	32.8
BLISS	2016	ROR	38.9	45.2	39.7	37.8	41.5	40.6	32.8	34.6	37.5	39.1	37.4	37.7	38.5
C.J. STRIKE	2016	ROR	50.0	55.5	52.4	48.8	52.9	47.4	34.5	37.5	44.9	50.1	49.5	49.5	47.7
CASCADE	2016	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2016	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2016	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2016	ROR	24.0	30.4	25.3	22.9	27.9	28.2	20.7	21.6	24.0	25.3	23.9	24.0	24.8
MILNER	2016	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2016	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.9	10.2	10.2	11.1	12.0	12.0	11.4
SWAN FALLS	2016	ROR	16.3	18.2	17.4	16.8	17.5	15.6	12.0	12.8	14.8	15.9	16.0	16.1	15.8
TWIN FALLS	2016	ROR	11.8	28.5	15.9	8.7	20.1	21.8	6.1	6.4	6.4	7.2	8.7	9.7	12.5
UPPER MALAD	2016	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2016	ROR	14.8	18.9	13.8	14.2	18.1	18.0	12.3	13.2	14.7	15.6	14.5	14.7	15.2
UPPER SALMON 3&4	2016	ROR	13.8	17.7	14.9	13.3	16.7	16.6	11.7	12.5	13.8	14.5	13.6	13.8	14.4
<b>HCC TOTAL</b>			<b>681.9</b>	<b>531.0</b>	<b>590.0</b>	<b>692.9</b>	<b>844.2</b>	<b>662.8</b>	<b>473.1</b>	<b>374.0</b>	<b>420.3</b>	<b>428.8</b>	<b>363.2</b>	<b>470.5</b>	<b>544.6</b>
<b>ROR TOTAL</b>			<b>217.5</b>	<b>295.0</b>	<b>246.3</b>	<b>246.3</b>	<b>325.7</b>	<b>335.4</b>	<b>246.3</b>	<b>240.8</b>	<b>236.4</b>	<b>224.9</b>	<b>208.0</b>	<b>212.2</b>	<b>252.6</b>
<b>TOTAL</b>			<b>899.4</b>	<b>826.0</b>	<b>836.3</b>	<b>939.2</b>	<b>1169.9</b>	<b>998.2</b>	<b>719.4</b>	<b>614.8</b>	<b>656.6</b>	<b>653.7</b>	<b>571.2</b>	<b>682.7</b>	<b>797.2</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2017	HCC	304.1	237.1	245.2	309.1	380.0	298.7	209.0	158.5	178.3	183.9	156.3	208.8	239.1
OXBOW	2017	HCC	127.2	104.9	105.7	126.4	152.6	120.1	88.4	72.3	81.3	81.8	69.6	87.4	101.5
HELLS CANYON	2017	HCC	249.4	209.2	216.2	256.2	310.4	242.9	174.6	142.1	159.5	161.3	138.2	173.2	202.8
1000 SPRINGS	2017	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2017	ROR	0.0	14.0	11.9	37.3	70.3	83.5	71.7	54.0	32.6	15.6	0.0	0.0	32.7
BLISS	2017	ROR	38.7	45.2	39.6	37.7	41.4	40.5	32.7	34.4	37.4	39.0	37.3	37.5	38.4
C.J. STRIKE	2017	ROR	49.8	55.5	52.2	48.6	52.7	47.3	34.3	37.3	44.7	50.0	49.3	49.3	47.5
CASCADE	2017	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2017	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2017	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2017	ROR	23.9	30.3	25.2	22.8	27.8	28.1	20.6	21.5	23.9	25.2	23.8	23.9	24.7
MILNER	2017	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2017	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.8	10.2	10.2	11.0	12.0	12.0	11.4
SWAN FALLS	2017	ROR	16.2	18.2	17.4	16.7	17.5	15.6	12.0	12.7	14.5	15.9	16.0	16.0	15.7
TWIN FALLS	2017	ROR	11.8	28.5	15.9	8.7	20.1	21.7	6.1	6.4	6.4	7.1	8.6	9.7	12.5
UPPER MALAD	2017	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2017	ROR	14.7	18.9	13.8	14.1	18.0	18.0	12.2	13.1	14.7	15.5	14.5	14.6	15.1
UPPER SALMON 3&4	2017	ROR	13.8	17.7	14.8	13.3	16.6	16.6	11.6	12.4	13.8	14.5	13.6	13.7	14.3
<b>HCC TOTAL</b>			<b>680.7</b>	<b>551.2</b>	<b>567.1</b>	<b>691.7</b>	<b>843.0</b>	<b>661.7</b>	<b>472.0</b>	<b>372.9</b>	<b>419.1</b>	<b>427.0</b>	<b>364.1</b>	<b>469.4</b>	<b>543.4</b>
<b>ROR TOTAL</b>			<b>216.8</b>	<b>294.9</b>	<b>245.7</b>	<b>245.4</b>	<b>325.1</b>	<b>334.4</b>	<b>244.6</b>	<b>239.5</b>	<b>235.6</b>	<b>224.2</b>	<b>207.5</b>	<b>211.4</b>	<b>251.7</b>
<b>TOTAL</b>			<b>897.5</b>	<b>846.1</b>	<b>812.8</b>	<b>937.1</b>	<b>1168.1</b>	<b>996.1</b>	<b>716.6</b>	<b>612.4</b>	<b>654.6</b>	<b>651.2</b>	<b>571.6</b>	<b>680.8</b>	<b>795.1</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**70th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2018	HCC	303.7	239.9	240.7	308.6	379.5	298.2	208.5	158.0	177.8	183.4	156.3	208.3	238.6
OXBOW	2018	HCC	127.1	106.3	104.0	126.1	152.4	119.9	88.1	72.1	81.0	81.6	69.6	87.1	101.3
HELLS CANYON	2018	HCC	249.0	212.0	212.8	255.8	310.0	242.5	174.2	141.7	159.0	160.9	138.2	172.8	202.4
1000 SPRINGS	2018	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2018	ROR	0.0	14.0	11.7	37.1	70.4	83.1	71.1	53.7	32.6	15.6	0.0	0.0	32.5
BLISS	2018	ROR	38.6	45.2	39.5	37.6	41.3	40.2	32.5	34.3	37.3	38.9	37.2	37.4	38.3
C.J. STRIKE	2018	ROR	49.6	55.5	52.0	48.4	52.5	47.1	34.1	37.0	44.6	49.8	49.1	49.1	47.3
CASCADE	2018	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2018	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2018	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2018	ROR	23.8	30.2	25.1	22.7	27.7	27.8	20.5	21.4	23.8	25.1	23.8	23.8	24.6
MILNER	2018	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2018	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.8	10.1	10.1	11.0	12.0	12.0	11.4
SWAN FALLS	2018	ROR	16.2	18.2	17.3	16.5	17.4	15.5	11.9	12.6	14.4	15.8	15.9	16.0	15.6
TWIN FALLS	2018	ROR	11.8	28.5	15.8	8.7	20.0	21.7	6.0	6.3	6.3	7.1	8.6	9.7	12.4
UPPER MALAD	2018	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2018	ROR	14.6	18.9	13.8	14.0	17.9	17.7	12.1	13.0	14.6	15.4	14.4	14.5	15.0
UPPER SALMON 3&4	2018	ROR	13.7	17.7	14.7	13.2	16.5	16.4	11.6	12.3	13.7	14.4	13.6	13.6	14.3
<b>HCC TOTAL</b>			<b>679.8</b>	<b>558.2</b>	<b>557.5</b>	<b>690.5</b>	<b>841.8</b>	<b>660.6</b>	<b>470.8</b>	<b>371.8</b>	<b>417.8</b>	<b>425.9</b>	<b>364.1</b>	<b>468.2</b>	<b>542.2</b>
<b>ROR TOTAL</b>			<b>216.2</b>	<b>294.8</b>	<b>244.8</b>	<b>244.4</b>	<b>324.4</b>	<b>332.6</b>	<b>243.2</b>	<b>238.2</b>	<b>234.8</b>	<b>223.5</b>	<b>207.0</b>	<b>210.8</b>	<b>250.8</b>
<b>TOTAL</b>			<b>896.0</b>	<b>853.0</b>	<b>802.3</b>	<b>934.9</b>	<b>1166.2</b>	<b>993.2</b>	<b>714.0</b>	<b>610.0</b>	<b>652.6</b>	<b>649.4</b>	<b>571.1</b>	<b>679.0</b>	<b>793.0</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2019	HCC	303.1	242.3	236.7	308.1	379.0	297.6	208.0	157.6	177.3	182.9	156.3	208.1	238.1
OXBOW	2019	HCC	126.8	107.6	102.4	125.9	152.2	119.6	87.9	71.9	80.8	81.4	69.6	87.0	101.1
HELLS CANYON	2019	HCC	248.6	214.5	208.8	255.4	309.6	242.1	173.8	141.2	158.6	160.5	138.2	172.6	202.0
1000 SPRINGS	2019	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2019	ROR	0.0	14.0	11.6	37.1	70.1	82.7	70.6	53.3	32.1	15.5	0.0	0.0	32.3
BLISS	2019	ROR	38.5	45.2	39.3	37.4	41.1	40.1	32.4	34.2	37.2	38.8	37.1	37.3	38.2
C.J. STRIKE	2019	ROR	49.6	55.5	51.8	48.2	52.4	46.9	33.9	36.8	44.4	49.6	48.9	49.0	47.2
CASCADE	2019	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2019	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2019	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2019	ROR	23.7	30.1	25.0	22.7	27.6	27.7	20.4	21.3	23.7	25.0	23.8	23.7	24.5
MILNER	2019	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2019	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.7	10.1	10.1	10.9	12.0	12.0	11.4
SWAN FALLS	2019	ROR	16.1	18.2	17.3	16.4	17.4	15.4	11.8	12.5	14.4	15.8	15.9	15.9	15.6
TWIN FALLS	2019	ROR	11.7	28.4	15.8	8.6	20.0	21.6	6.0	6.3	6.3	7.0	8.6	9.7	12.4
UPPER MALAD	2019	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2019	ROR	14.5	18.9	13.8	14.0	17.8	17.7	12.0	12.9	14.5	15.4	14.4	14.4	15.0
UPPER SALMON 3&4	2019	ROR	13.6	17.7	14.7	13.2	16.4	16.3	11.5	12.3	13.6	14.4	13.5	13.5	14.2
<b>HCC TOTAL</b>			<b>678.5</b>	<b>564.4</b>	<b>548.9</b>	<b>689.4</b>	<b>840.7</b>	<b>659.3</b>	<b>469.7</b>	<b>370.7</b>	<b>416.7</b>	<b>424.8</b>	<b>364.1</b>	<b>467.7</b>	<b>541.1</b>
<b>ROR TOTAL</b>			<b>215.6</b>	<b>294.6</b>	<b>244.2</b>	<b>243.8</b>	<b>323.5</b>	<b>331.5</b>	<b>241.9</b>	<b>237.2</b>	<b>233.7</b>	<b>222.8</b>	<b>206.6</b>	<b>210.2</b>	<b>250.1</b>
<b>TOTAL</b>			<b>894.1</b>	<b>859.0</b>	<b>793.1</b>	<b>933.2</b>	<b>1164.1</b>	<b>990.8</b>	<b>711.6</b>	<b>607.9</b>	<b>650.4</b>	<b>647.6</b>	<b>570.7</b>	<b>677.9</b>	<b>791.2</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**70th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2020	HCC	302.6	240.8	237.5	307.6	378.4	297.1	207.4	157.1	178.8	182.3	156.3	208.1	237.7
OXBOW	2020	HCC	126.6	106.8	102.7	125.7	152.0	119.4	87.7	71.6	80.6	81.1	69.6	87.0	100.8
HELLS CANYON	2020	HCC	248.2	213.0	210.4	255.0	309.2	241.7	173.3	140.8	158.2	159.9	138.2	172.6	201.7
1000 SPRINGS	2020	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2020	ROR	4.7	14.1	11.5	37.1	69.7	82.2	70.2	53.0	31.0	15.2	4.1	0.0	32.8
BLISS	2020	ROR	38.4	45.1	39.2	37.3	41.0	39.9	32.3	34.0	37.0	38.6	37.0	37.1	38.0
C.J. STRIKE	2020	ROR	49.4	55.5	51.7	48.1	52.2	46.7	33.7	36.6	44.2	49.5	48.8	48.8	47.1
CASCADE	2020	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2020	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2020	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2020	ROR	23.6	30.0	24.9	22.7	27.5	27.6	20.3	21.2	23.6	24.9	23.7	23.6	24.4
MILNER	2020	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2020	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.7	10.0	10.0	10.9	12.0	12.0	11.4
SWAN FALLS	2020	ROR	16.1	18.2	17.2	16.4	17.3	15.4	11.8	12.5	14.3	15.7	15.8	15.9	15.5
TWIN FALLS	2020	ROR	11.7	28.4	15.8	8.6	19.9	21.6	6.0	6.3	6.3	7.0	8.5	9.6	12.4
UPPER MALAD	2020	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2020	ROR	14.4	18.9	13.8	14.0	17.7	17.6	12.0	12.8	14.5	15.3	14.3	14.4	15.0
UPPER SALMON 3&4	2020	ROR	13.6	17.7	14.6	13.2	16.4	16.3	11.4	12.2	13.6	14.3	13.5	13.5	14.2
<b>HCC TOTAL</b>			<b>677.4</b>	<b>560.6</b>	<b>550.6</b>	<b>688.3</b>	<b>839.5</b>	<b>658.2</b>	<b>468.4</b>	<b>369.5</b>	<b>415.6</b>	<b>423.3</b>	<b>364.1</b>	<b>467.7</b>	<b>540.2</b>
<b>ROR TOTAL</b>			<b>219.8</b>	<b>294.5</b>	<b>243.6</b>	<b>243.6</b>	<b>322.4</b>	<b>330.4</b>	<b>241.0</b>	<b>236.1</b>	<b>231.9</b>	<b>221.8</b>	<b>210.1</b>	<b>209.6</b>	<b>250.1</b>
<b>TOTAL</b>			<b>897.2</b>	<b>855.1</b>	<b>794.2</b>	<b>931.9</b>	<b>1161.8</b>	<b>988.6</b>	<b>709.4</b>	<b>605.6</b>	<b>647.5</b>	<b>645.1</b>	<b>574.2</b>	<b>677.3</b>	<b>790.4</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2021	HCC	302.1	244.8	231.5	307.1	377.9	296.6	207.0	156.6	176.4	181.7	156.3	208.1	237.1
OXBOW	2021	HCC	126.4	108.9	100.4	125.5	151.8	119.2	87.5	71.4	80.4	80.8	69.6	87.0	100.7
HELLS CANYON	2021	HCC	247.7	217.1	205.8	254.6	308.8	241.3	172.9	140.4	157.8	159.4	138.2	172.6	201.3
1000 SPRINGS	2021	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2021	ROR	4.8	14.1	11.4	37.3	69.7	82.3	69.6	52.5	30.6	15.1	4.2	0.0	32.7
BLISS	2021	ROR	38.2	44.9	39.1	37.2	40.9	39.8	32.2	33.9	36.9	38.5	36.9	37.0	37.9
C.J. STRIKE	2021	ROR	49.2	55.5	51.5	47.9	52.0	46.5	33.5	36.4	44.1	49.3	48.6	48.6	46.9
CASCADE	2021	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2021	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2021	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2021	ROR	23.5	29.9	24.8	22.7	27.4	27.5	20.2	21.1	23.5	24.8	23.8	23.5	24.3
MILNER	2021	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2021	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.7	10.0	10.0	10.9	12.0	12.0	11.4
SWAN FALLS	2021	ROR	16.0	18.2	17.2	16.3	17.3	15.3	11.8	12.5	14.3	15.7	15.8	15.8	15.5
TWIN FALLS	2021	ROR	11.7	28.4	15.7	8.6	19.9	21.6	5.9	6.2	6.2	7.0	8.5	9.6	12.3
UPPER MALAD	2021	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2021	ROR	14.4	18.9	13.8	14.0	17.7	17.5	11.9	12.8	14.4	15.2	14.3	14.3	14.9
UPPER SALMON 3&4	2021	ROR	13.5	17.7	14.5	13.2	16.3	16.2	11.4	12.1	13.5	14.2	13.4	13.4	14.1
<b>HCC TOTAL</b>			<b>676.2</b>	<b>570.8</b>	<b>537.7</b>	<b>687.2</b>	<b>838.4</b>	<b>657.1</b>	<b>467.4</b>	<b>368.4</b>	<b>414.6</b>	<b>421.9</b>	<b>364.1</b>	<b>467.7</b>	<b>539.1</b>
<b>ROR TOTAL</b>			<b>219.2</b>	<b>294.2</b>	<b>242.9</b>	<b>243.4</b>	<b>321.9</b>	<b>329.8</b>	<b>239.8</b>	<b>235.0</b>	<b>230.9</b>	<b>221.1</b>	<b>209.7</b>	<b>208.9</b>	<b>249.3</b>
<b>TOTAL</b>			<b>895.4</b>	<b>865.0</b>	<b>780.6</b>	<b>930.6</b>	<b>1160.3</b>	<b>986.9</b>	<b>707.2</b>	<b>603.4</b>	<b>645.5</b>	<b>643.0</b>	<b>573.8</b>	<b>676.6</b>	<b>788.5</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**70th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2022	HCC	301.6	247.2	227.5	306.5	377.3	296.0	206.4	156.2	175.9	180.9	156.4	208.1	236.6
OXBOW	2022	HCC	126.2	110.2	98.8	125.3	151.6	119.0	87.2	71.2	80.2	80.5	69.6	87.0	100.5
HELLS CANYON	2022	HCC	247.3	219.6	202.8	254.1	308.4	240.9	172.4	140.0	157.4	158.7	138.3	172.6	200.9
1000 SPRINGS	2022	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2022	ROR	5.0	14.2	11.3	37.3	69.5	82.3	69.7	52.5	29.3	14.8	4.3	0.0	32.6
BLISS	2022	ROR	38.1	44.8	39.0	37.0	40.7	39.5	32.0	33.8	36.8	38.4	36.8	36.9	37.8
C.J. STRIKE	2022	ROR	49.1	55.5	51.3	47.7	51.9	46.3	33.3	36.4	43.9	49.1	48.4	48.4	46.7
CASCADE	2022	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2022	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2022	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2022	ROR	23.4	29.8	24.7	22.7	27.3	27.4	20.1	21.0	23.4	24.8	23.5	23.4	24.2
MILNER	2022	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2022	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.6	10.0	10.0	10.8	12.0	12.0	11.4
SWAN FALLS	2022	ROR	16.0	18.2	17.1	16.3	17.2	15.3	11.7	12.4	14.2	15.6	15.7	15.8	15.4
TWIN FALLS	2022	ROR	11.7	28.3	15.7	8.6	19.9	21.5	5.9	6.2	6.2	6.9	8.5	9.6	12.3
UPPER MALAD	2022	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2022	ROR	14.3	18.9	13.8	14.0	17.6	17.4	11.8	12.7	14.3	15.2	14.2	14.2	14.8
UPPER SALMON 3&4	2022	ROR	13.4	17.7	14.5	13.2	16.2	16.1	11.3	12.0	13.4	14.2	13.4	13.4	14.0
<b>HCC TOTAL</b>			<b>675.1</b>	<b>577.0</b>	<b>529.1</b>	<b>685.9</b>	<b>837.2</b>	<b>655.9</b>	<b>466.0</b>	<b>367.4</b>	<b>413.5</b>	<b>420.1</b>	<b>364.3</b>	<b>467.7</b>	<b>538.0</b>
<b>ROR TOTAL</b>			<b>218.9</b>	<b>294.0</b>	<b>242.3</b>	<b>243.0</b>	<b>321.0</b>	<b>328.9</b>	<b>239.0</b>	<b>234.5</b>	<b>228.9</b>	<b>220.2</b>	<b>209.2</b>	<b>208.4</b>	<b>248.6</b>
<b>TOTAL</b>			<b>894.0</b>	<b>871.0</b>	<b>771.4</b>	<b>928.9</b>	<b>1158.2</b>	<b>984.8</b>	<b>705.0</b>	<b>601.9</b>	<b>642.4</b>	<b>640.3</b>	<b>573.5</b>	<b>676.1</b>	<b>786.7</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2023	HCC	301.0	248.1	225.3	305.9	376.8	295.5	205.7	155.7	175.4	180.1	156.4	208.1	236.1
OXBOW	2023	HCC	126.0	110.7	98.0	125.1	151.3	118.8	87.0	71.0	80.0	80.1	69.6	87.0	100.3
HELLS CANYON	2023	HCC	246.9	220.5	201.2	253.7	308.0	240.4	171.9	139.6	157.0	158.0	138.2	172.6	200.5
1000 SPRINGS	2023	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2023	ROR	5.1	14.2	11.2	37.5	69.3	82.1	69.7	52.4	28.9	14.8	4.5	0.0	32.6
BLISS	2023	ROR	38.0	44.7	38.8	36.9	40.6	39.4	31.9	33.6	36.6	38.2	36.6	36.8	37.6
C.J. STRIKE	2023	ROR	48.9	55.5	51.1	47.5	51.7	46.2	33.1	36.3	43.7	48.9	48.2	48.3	46.5
CASCADE	2023	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2023	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2023	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2023	ROR	23.3	29.7	24.6	22.6	27.2	27.1	20.0	20.9	23.3	24.7	23.4	23.3	24.1
MILNER	2023	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2023	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.6	9.9	9.9	10.8	12.0	12.0	11.3
SWAN FALLS	2023	ROR	15.9	18.2	17.1	16.2	17.2	15.2	11.6	12.4	14.2	15.6	15.7	15.7	15.4
TWIN FALLS	2023	ROR	11.7	28.3	15.7	8.5	19.9	21.5	5.8	6.2	6.2	6.9	8.5	9.6	12.3
UPPER MALAD	2023	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2023	ROR	14.2	18.9	13.8	13.9	17.5	17.2	11.7	12.6	14.2	15.1	14.2	14.2	14.8
UPPER SALMON 3&4	2023	ROR	13.3	17.7	14.4	13.1	16.2	15.9	11.2	12.0	13.4	14.1	13.3	13.3	14.0
<b>HCC TOTAL</b>			<b>673.9</b>	<b>579.3</b>	<b>524.5</b>	<b>684.7</b>	<b>836.0</b>	<b>654.7</b>	<b>464.6</b>	<b>366.3</b>	<b>412.4</b>	<b>418.2</b>	<b>364.2</b>	<b>467.7</b>	<b>536.9</b>
<b>ROR TOTAL</b>			<b>218.3</b>	<b>293.8</b>	<b>241.6</b>	<b>242.4</b>	<b>320.3</b>	<b>327.7</b>	<b>238.2</b>	<b>233.8</b>	<b>227.8</b>	<b>219.5</b>	<b>208.8</b>	<b>207.9</b>	<b>247.9</b>
<b>TOTAL</b>			<b>892.2</b>	<b>873.1</b>	<b>766.1</b>	<b>927.1</b>	<b>1156.3</b>	<b>982.4</b>	<b>702.8</b>	<b>600.1</b>	<b>640.1</b>	<b>637.7</b>	<b>573.0</b>	<b>675.6</b>	<b>784.9</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**70th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2024	HCC	300.5	240.6	233.4	305.4	376.2	294.9	205.1	155.2	175.0	179.3	156.2	208.1	235.8
OXBOW	2024	HCC	125.7	106.8	101.1	124.9	151.1	118.6	86.7	70.8	79.7	79.7	69.5	87.0	100.1
HELLS CANYON	2024	HCC	246.4	213.1	207.1	253.3	307.5	240.0	171.4	139.2	156.6	157.2	138.1	172.6	200.2
1000 SPRINGS	2024	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.8	6.6	6.6	6.2
AMERICAN FALLS	2024	ROR	5.2	14.3	11.1	37.6	69.4	82.2	69.3	52.2	28.5	14.7	4.5	0.0	32.4
BLISS	2024	ROR	37.8	44.6	38.7	36.8	40.5	39.1	31.8	33.5	36.5	38.1	36.5	36.6	37.5
C.J. STRIKE	2024	ROR	48.7	55.5	51.0	47.4	51.5	45.8	33.0	36.1	43.5	48.7	48.1	48.1	46.4
CASCADE	2024	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2024	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2024	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2024	ROR	23.2	29.6	24.6	22.5	27.1	26.9	18.9	20.8	23.2	24.6	23.3	23.2	24.0
MILNER	2024	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2024	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.5	9.9	9.9	10.7	12.0	12.0	11.3
SWAN FALLS	2024	ROR	15.9	18.2	17.0	16.2	17.1	15.4	11.6	12.4	14.2	15.5	15.6	15.7	15.4
TWIN FALLS	2024	ROR	11.7	28.3	15.6	8.5	19.8	21.5	5.8	6.1	6.1	6.8	8.4	9.5	12.3
UPPER MALAD	2024	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2024	ROR	14.1	18.9	13.8	13.9	17.4	17.0	11.6	12.5	14.1	15.0	14.1	14.1	14.7
UPPER SALMON 3&4	2024	ROR	13.3	17.7	14.4	13.1	16.1	15.8	11.2	11.9	13.3	14.0	13.2	13.3	13.9
<b>HCC TOTAL</b>			<b>672.6</b>	<b>560.5</b>	<b>541.6</b>	<b>683.6</b>	<b>834.8</b>	<b>653.5</b>	<b>463.2</b>	<b>365.2</b>	<b>411.2</b>	<b>416.2</b>	<b>363.8</b>	<b>467.7</b>	<b>536.1</b>
<b>ROR TOTAL</b>			<b>217.8</b>	<b>293.7</b>	<b>241.1</b>	<b>242.2</b>	<b>319.6</b>	<b>326.8</b>	<b>237.3</b>	<b>232.9</b>	<b>226.7</b>	<b>218.5</b>	<b>208.1</b>	<b>207.2</b>	<b>247.4</b>
<b>TOTAL</b>			<b>890.4</b>	<b>854.2</b>	<b>782.7</b>	<b>925.8</b>	<b>1154.3</b>	<b>980.3</b>	<b>700.5</b>	<b>598.1</b>	<b>637.9</b>	<b>634.7</b>	<b>571.9</b>	<b>674.9</b>	<b>783.5</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2025	HCC	300.0	246.5	225.0	304.9	375.7	282.8	204.6	154.8	174.5	178.3	156.5	208.1	234.3
OXBOW	2025	HCC	125.5	110.0	97.8	124.7	150.9	116.9	86.5	70.6	79.5	79.2	69.6	87.0	99.8
HELLS CANYON	2025	HCC	246.1	219.1	200.8	252.9	307.1	238.7	170.9	138.8	156.1	156.3	138.2	172.6	199.7
1000 SPRINGS	2025	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2025	ROR	5.3	14.4	11.1	37.8	69.1	80.7	69.1	52.0	28.6	14.8	4.4	0.0	32.4
BLISS	2025	ROR	37.7	44.5	38.6	36.6	40.4	38.8	31.6	33.4	36.4	38.0	36.4	36.5	37.4
C.J. STRIKE	2025	ROR	48.5	55.5	50.8	47.2	51.5	45.3	32.8	35.9	43.4	48.6	47.9	47.9	46.2
CASCADE	2025	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2025	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2025	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2025	ROR	23.1	29.5	24.6	22.4	27.0	26.5	19.8	20.7	23.1	24.5	23.2	23.1	23.9
MILNER	2025	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2025	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.5	9.8	9.8	10.7	12.0	12.0	11.3
SWAN FALLS	2025	ROR	15.8	18.2	17.0	16.1	17.1	15.2	11.5	12.3	14.2	15.5	15.6	15.6	15.3
TWIN FALLS	2025	ROR	11.7	28.2	15.6	8.5	19.8	20.7	5.8	6.1	6.1	6.8	8.4	9.5	12.2
UPPER MALAD	2025	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2025	ROR	14.0	18.9	13.8	13.8	17.3	16.8	11.6	12.4	14.0	14.9	14.0	14.0	14.6
UPPER SALMON 3&4	2025	ROR	13.2	17.7	14.4	13.0	16.0	15.6	11.1	11.8	13.2	14.0	13.2	13.2	13.8
<b>HCC TOTAL</b>			<b>671.6</b>	<b>575.6</b>	<b>523.6</b>	<b>682.5</b>	<b>833.6</b>	<b>638.4</b>	<b>462.0</b>	<b>364.2</b>	<b>410.1</b>	<b>413.8</b>	<b>364.3</b>	<b>467.7</b>	<b>533.7</b>
<b>ROR TOTAL</b>			<b>217.2</b>	<b>293.5</b>	<b>240.8</b>	<b>241.6</b>	<b>318.9</b>	<b>322.7</b>	<b>236.4</b>	<b>231.9</b>	<b>226.2</b>	<b>218.2</b>	<b>207.5</b>	<b>206.5</b>	<b>246.4</b>
<b>TOTAL</b>			<b>888.8</b>	<b>869.1</b>	<b>764.4</b>	<b>924.1</b>	<b>1152.5</b>	<b>961.1</b>	<b>698.4</b>	<b>596.1</b>	<b>636.3</b>	<b>632.0</b>	<b>571.8</b>	<b>674.2</b>	<b>780.1</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**70th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2026	HCC	299.5	247.4	222.9	304.3	375.1	282.2	204.0	154.3	174.0	177.5	156.4	208.1	233.7
OXBOW	2026	HCC	125.3	110.4	97.0	124.4	150.7	116.7	86.2	70.3	79.3	78.8	69.5	87.0	99.6
HELLS CANYON	2026	HCC	245.6	220.0	199.2	252.5	306.7	238.2	170.5	138.3	155.7	155.5	138.1	172.6	199.3
1000 SPRINGS	2026	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2026	ROR	5.5	14.5	11.1	38.5	68.9	80.8	68.8	52.0	28.7	14.8	4.4	4.4	32.8
BLISS	2026	ROR	37.6	44.3	38.4	36.5	40.2	38.7	31.5	33.2	36.2	37.8	36.2	36.4	37.2
C.J. STRIKE	2026	ROR	48.3	55.5	50.6	47.0	51.3	44.3	32.6	35.8	43.2	48.4	47.7	47.7	46.0
CASCADE	2026	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2026	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2026	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2026	ROR	23.0	29.4	24.6	22.3	26.9	26.5	19.7	20.6	23.0	24.4	23.1	23.0	23.8
MILNER	2026	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2026	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.5	9.8	9.8	10.6	12.0	12.0	11.3
SWAN FALLS	2026	ROR	15.8	18.1	16.9	16.1	17.1	14.9	11.4	12.2	14.1	15.4	15.5	15.6	15.2
TWIN FALLS	2026	ROR	11.7	28.2	15.6	8.5	19.8	20.7	5.7	6.0	6.0	6.8	8.4	9.5	12.1
UPPER MALAD	2026	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2026	ROR	14.0	18.9	13.8	13.7	17.3	16.7	11.5	12.4	14.0	14.9	13.9	13.9	14.5
UPPER SALMON 3&4	2026	ROR	13.1	17.6	14.4	12.9	16.0	15.5	11.0	11.8	13.1	13.9	13.1	13.1	13.8
<b>HCC TOTAL</b>			<b>670.4</b>	<b>577.8</b>	<b>519.1</b>	<b>681.2</b>	<b>832.4</b>	<b>637.1</b>	<b>460.7</b>	<b>362.9</b>	<b>408.9</b>	<b>411.8</b>	<b>364.0</b>	<b>467.7</b>	<b>532.6</b>
<b>ROR TOTAL</b>			<b>216.9</b>	<b>293.1</b>	<b>240.3</b>	<b>241.7</b>	<b>318.2</b>	<b>321.2</b>	<b>235.3</b>	<b>231.3</b>	<b>225.5</b>	<b>217.4</b>	<b>206.7</b>	<b>210.3</b>	<b>246.1</b>
<b>TOTAL</b>			<b>887.3</b>	<b>870.9</b>	<b>759.4</b>	<b>922.9</b>	<b>1150.6</b>	<b>958.3</b>	<b>696.0</b>	<b>594.2</b>	<b>634.4</b>	<b>629.2</b>	<b>570.7</b>	<b>678.0</b>	<b>778.7</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2027	HCC	299.0	246.7	222.7	303.8	374.6	281.7	203.4	153.7	173.5	169.2	156.6	208.1	232.7
OXBOW	2027	HCC	125.1	110.1	96.9	124.2	150.5	116.5	86.0	70.0	79.1	78.3	69.6	87.0	99.4
HELLS CANYON	2027	HCC	245.2	219.4	199.0	252.1	306.3	237.8	170.0	137.8	155.3	154.1	138.2	172.6	198.8
1000 SPRINGS	2027	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2027	ROR	5.6	14.5	11.1	38.7	68.9	80.8	68.8	51.9	28.8	14.9	4.4	4.7	32.8
BLISS	2027	ROR	37.5	44.2	38.3	36.4	40.1	38.6	31.5	33.1	36.1	37.7	36.2	36.3	37.1
C.J. STRIKE	2027	ROR	48.2	55.5	50.5	46.8	51.1	44.2	32.4	35.6	43.0	48.3	47.5	47.6	45.8
CASCADE	2027	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2027	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2027	ROR	12.1	12.5	12.8	13.0	12.6	11.8	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2027	ROR	22.9	29.3	24.6	22.2	26.8	26.4	19.6	20.5	22.9	24.3	23.0	22.9	23.7
MILNER	2027	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2027	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.4	9.7	9.8	10.6	12.0	12.0	11.3
SWAN FALLS	2027	ROR	15.7	18.1	16.9	16.0	17.0	14.8	11.4	12.2	14.1	15.4	15.5	15.5	15.2
TWIN FALLS	2027	ROR	11.7	28.2	15.6	8.4	19.7	20.6	5.7	6.0	6.0	6.7	8.4	9.5	12.1
UPPER MALAD	2027	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2027	ROR	13.9	18.9	13.8	13.8	17.2	16.6	11.4	12.3	13.9	14.8	13.8	13.8	14.5
UPPER SALMON 3&4	2027	ROR	13.1	17.5	14.4	12.8	15.9	15.4	11.0	11.7	13.1	13.8	13.0	13.0	13.7
<b>HCC TOTAL</b>			<b>669.3</b>	<b>576.2</b>	<b>518.6</b>	<b>680.1</b>	<b>831.3</b>	<b>636.0</b>	<b>459.4</b>	<b>361.5</b>	<b>407.9</b>	<b>401.6</b>	<b>364.4</b>	<b>467.7</b>	<b>530.9</b>
<b>ROR TOTAL</b>			<b>216.5</b>	<b>292.8</b>	<b>240.1</b>	<b>241.1</b>	<b>317.4</b>	<b>320.5</b>	<b>234.8</b>	<b>230.5</b>	<b>225.1</b>	<b>216.9</b>	<b>206.2</b>	<b>210.0</b>	<b>245.6</b>
<b>TOTAL</b>			<b>885.8</b>	<b>869.0</b>	<b>758.7</b>	<b>921.2</b>	<b>1148.6</b>	<b>956.5</b>	<b>694.2</b>	<b>592.0</b>	<b>633.0</b>	<b>618.5</b>	<b>570.6</b>	<b>677.7</b>	<b>776.5</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**70th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
**HCC - Hells Canyon Complex**  
**ROR - Run of River**

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2028	HCC	298.4	244.0	224.8	303.2	374.0	281.2	202.8	153.1	173.0	168.4	156.5	208.1	232.3
OXBOW	2028	HCC	124.9	108.8	97.7	124.0	150.3	116.3	85.7	69.8	78.8	77.9	69.6	87.0	99.2
HELLS CANYON	2028	HCC	244.8	216.8	200.6	251.6	305.9	237.4	169.5	137.3	154.9	153.4	138.1	172.6	198.5
1000 SPRINGS	2028	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2028	ROR	5.7	14.5	10.9	38.9	68.8	80.7	68.7	51.8	28.8	15.0	4.4	4.8	32.8
BLISS	2028	ROR	37.3	44.1	38.2	36.2	40.0	38.4	31.4	32.8	36.0	37.6	36.2	36.2	37.0
C.J. STRIKE	2028	ROR	48.0	55.5	50.3	46.7	51.0	44.0	32.2	35.3	42.9	48.1	47.4	47.4	45.7
CASCADE	2028	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2028	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.8	1.8	1.8	1.8	1.7
LOWER MALAD	2028	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2028	ROR	22.8	29.2	24.5	22.1	26.7	26.2	19.5	20.4	22.8	24.1	22.9	22.8	23.6
MILNER	2028	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2028	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.4	9.7	9.7	10.6	12.0	12.0	11.3
SWAN FALLS	2028	ROR	15.7	18.0	16.8	16.0	17.0	14.8	11.3	12.1	14.2	15.3	15.4	15.5	15.2
TWIN FALLS	2028	ROR	11.7	28.1	15.6	8.4	19.7	20.6	5.7	6.0	6.0	6.7	8.3	9.4	12.1
UPPER MALAD	2028	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2028	ROR	13.8	18.9	13.8	13.5	17.1	16.5	11.3	12.2	13.8	14.7	13.8	13.8	14.4
UPPER SALMON 3&4	2028	ROR	13.0	17.5	14.3	12.8	15.8	15.3	10.9	11.6	13.0	13.8	13.0	13.0	13.6
<b>HCC TOTAL</b>			<b>668.1</b>	<b>569.6</b>	<b>523.1</b>	<b>678.8</b>	<b>830.1</b>	<b>634.9</b>	<b>458.0</b>	<b>360.2</b>	<b>406.7</b>	<b>399.7</b>	<b>364.2</b>	<b>467.7</b>	<b>530.0</b>
<b>ROR TOTAL</b>			<b>215.9</b>	<b>292.4</b>	<b>239.3</b>	<b>240.8</b>	<b>316.8</b>	<b>319.6</b>	<b>234.0</b>	<b>229.4</b>	<b>224.6</b>	<b>216.3</b>	<b>205.8</b>	<b>209.7</b>	<b>245.1</b>
<b>TOTAL</b>			<b>884.0</b>	<b>862.0</b>	<b>762.4</b>	<b>919.6</b>	<b>1146.9</b>	<b>954.5</b>	<b>692.0</b>	<b>589.6</b>	<b>631.3</b>	<b>616.0</b>	<b>570.0</b>	<b>677.4</b>	<b>775.1</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2029	HCC	297.9	246.4	220.8	302.7	373.5	280.6	202.3	152.7	172.6	167.6	156.4	208.1	231.7
OXBOW	2029	HCC	124.7	110.0	96.1	123.8	150.1	116.0	85.5	69.6	78.6	77.5	69.5	87.0	99.0
HELLS CANYON	2029	HCC	244.4	219.3	197.5	251.2	305.5	236.9	169.0	136.9	154.5	152.7	138.0	172.6	198.1
1000 SPRINGS	2029	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2029	ROR	5.9	14.6	10.9	39.1	68.7	80.7	68.6	51.7	28.9	15.0	4.3	5.1	32.9
BLISS	2029	ROR	37.2	44.0	38.1	36.2	38.9	38.3	31.3	32.7	35.9	37.5	36.2	36.1	36.9
C.J. STRIKE	2029	ROR	47.8	55.5	50.1	46.5	50.8	43.8	32.0	35.2	42.7	47.9	47.2	47.2	45.5
CASCADE	2029	ROR	0.0	0.0	2.6	1.5	4.8	7.6	6.9	10.1	9.0	2.2	1.4	1.4	4.0
CLEAR LAKE	2029	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.8	1.8	1.8	1.8	1.7
LOWER MALAD	2029	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2029	ROR	22.8	29.1	24.3	22.0	26.6	26.1	19.4	20.2	22.6	24.0	22.8	22.7	23.5
MILNER	2029	ROR	8.7	26.9	12.6	4.9	17.0	17.6	0.0	0.0	0.0	0.0	3.5	6.0	8.0
SHOSHONE FALLS	2029	ROR	12.0	12.0	12.0	12.0	12.0	12.0	9.3	9.7	9.7	10.5	12.0	12.0	11.3
SWAN FALLS	2029	ROR	15.6	18.0	16.8	15.9	16.9	14.7	11.2	12.0	14.1	15.3	15.4	15.4	15.1
TWIN FALLS	2029	ROR	11.7	28.1	15.6	8.4	19.6	20.6	5.6	5.9	5.9	6.7	8.3	9.4	12.0
UPPER MALAD	2029	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2029	ROR	13.8	18.9	13.8	13.5	17.0	16.5	11.3	12.1	13.7	14.6	13.7	13.7	14.3
UPPER SALMON 3&4	2029	ROR	13.0	17.4	14.2	12.7	15.8	15.3	10.8	11.6	12.9	13.7	12.9	12.9	13.6
<b>HCC TOTAL</b>			<b>667.0</b>	<b>575.7</b>	<b>514.4</b>	<b>677.7</b>	<b>829.0</b>	<b>633.5</b>	<b>456.8</b>	<b>359.2</b>	<b>405.6</b>	<b>397.8</b>	<b>363.9</b>	<b>467.7</b>	<b>528.7</b>
<b>ROR TOTAL</b>			<b>215.7</b>	<b>292.2</b>	<b>238.7</b>	<b>240.5</b>	<b>316.0</b>	<b>319.1</b>	<b>233.1</b>	<b>228.6</b>	<b>223.8</b>	<b>215.6</b>	<b>205.2</b>	<b>209.2</b>	<b>244.4</b>
<b>TOTAL</b>			<b>882.7</b>	<b>867.9</b>	<b>753.1</b>	<b>918.2</b>	<b>1145.0</b>	<b>952.6</b>	<b>689.9</b>	<b>587.8</b>	<b>629.4</b>	<b>613.4</b>	<b>569.1</b>	<b>676.9</b>	<b>773.1</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**90th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2010	HCC	259.6	199.2	173.4	242.2	268.2	213.5	210.2	146.5	166.2	149.9	158.2	195.8	198.4
OXBOW	2010	HCC	111.7	88.9	77.7	100.7	110.1	88.0	88.5	66.6	75.6	68.5	69.7	81.5	85.6
HELLS CANYON	2010	HCC	219.9	176.4	158.7	204.6	226.2	177.0	173.9	130.9	148.1	135.3	138.0	161.2	170.8
1000 SPRINGS	2010	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2010	ROR	0.0	0.0	5.7	33.7	71.3	83.8	83.5	54.7	25.7	9.2	0.0	0.0	30.8
BLISS	2010	ROR	35.8	36.3	34.7	34.2	38.2	37.9	36.0	33.9	36.5	38.4	36.5	36.4	36.2
C.J. STRIKE	2010	ROR	45.6	45.8	45.3	42.7	45.4	41.3	36.4	35.6	42.8	47.9	46.3	45.8	43.4
CASCADE	2010	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2010	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2010	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2010	ROR	22.9	23.5	21.6	21.3	25.8	25.7	23.5	21.3	23.2	24.9	23.4	23.4	23.4
MILNER	2010	ROR	6.4	6.8	2.0	0.0	8.8	13.1	9.4	0.0	0.0	0.0	1.8	5.5	4.5
SHOSHONE FALLS	2010	ROR	12.0	12.0	10.2	8.0	12.0	12.0	12.0	9.7	7.3	9.5	11.5	12.0	10.7
SWAN FALLS	2010	ROR	15.3	15.2	15.3	14.6	15.3	14.6	12.7	12.1	14.2	15.4	15.3	15.2	14.6
TWIN FALLS	2010	ROR	9.8	9.7	6.4	4.3	12.0	16.9	13.2	6.0	3.8	5.8	7.5	9.4	8.7
UPPER MALAD	2010	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2010	ROR	13.9	14.5	13.1	12.9	16.4	16.1	14.4	12.9	14.1	15.3	14.1	14.2	14.3
UPPER SALMON 3&4	2010	ROR	13.1	13.6	12.4	12.2	15.3	15.0	13.5	12.3	13.3	14.3	13.3	13.4	13.5
<b>HCC TOTAL</b>			<b>591.2</b>	<b>464.5</b>	<b>409.8</b>	<b>547.5</b>	<b>602.5</b>	<b>478.5</b>	<b>472.6</b>	<b>344.0</b>	<b>389.9</b>	<b>353.7</b>	<b>365.9</b>	<b>438.5</b>	<b>454.9</b>
<b>ROR TOTAL</b>			<b>203.4</b>	<b>206.5</b>	<b>195.8</b>	<b>213.0</b>	<b>288.9</b>	<b>306.5</b>	<b>288.3</b>	<b>235.7</b>	<b>216.5</b>	<b>210.4</b>	<b>198.5</b>	<b>204.0</b>	<b>230.8</b>
<b>TOTAL</b>			<b>794.6</b>	<b>671.0</b>	<b>605.6</b>	<b>760.5</b>	<b>891.4</b>	<b>785.0</b>	<b>760.9</b>	<b>579.7</b>	<b>606.4</b>	<b>564.1</b>	<b>564.4</b>	<b>642.5</b>	<b>685.7</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2011	HCC	259.4	199.0	173.3	242.2	266.1	213.5	210.1	146.4	166.1	149.8	158.1	195.6	198.3
OXBOW	2011	HCC	111.6	88.8	77.6	100.7	110.1	88.0	88.5	66.6	75.6	68.5	69.6	81.5	85.6
HELLS CANYON	2011	HCC	219.8	176.3	158.6	204.6	226.1	177.0	173.8	130.8	148.0	135.2	137.9	161.0	170.8
1000 SPRINGS	2011	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2011	ROR	0.0	0.0	5.7	33.7	71.3	83.8	83.2	54.7	25.7	9.2	0.0	0.0	30.8
BLISS	2011	ROR	35.8	36.2	34.7	34.2	38.2	37.8	36.0	33.9	36.5	38.3	36.5	36.3	36.2
C.J. STRIKE	2011	ROR	45.5	45.8	45.3	42.7	45.4	41.3	36.4	35.6	42.7	47.9	46.3	45.7	43.4
CASCADE	2011	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2011	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2011	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2011	ROR	22.8	23.5	21.6	21.3	25.8	25.7	23.4	21.3	23.2	24.9	23.3	23.4	23.3
MILNER	2011	ROR	6.4	6.7	2.0	0.0	8.8	13.1	9.4	0.0	0.0	0.0	1.8	5.5	4.5
SHOSHONE FALLS	2011	ROR	12.0	12.0	10.2	8.0	12.0	12.0	12.0	9.7	7.3	9.5	11.5	12.0	10.7
SWAN FALLS	2011	ROR	15.2	15.2	15.3	14.6	15.3	14.6	12.7	12.1	14.2	15.4	15.3	15.2	14.6
TWIN FALLS	2011	ROR	9.8	9.7	6.4	4.3	12.0	16.9	13.2	5.9	3.8	5.8	7.5	9.4	8.7
UPPER MALAD	2011	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2011	ROR	13.8	14.5	13.1	12.9	16.4	16.1	14.4	12.9	14.1	15.3	14.1	14.2	14.3
UPPER SALMON 3&4	2011	ROR	13.0	13.6	12.4	12.2	15.3	15.0	13.5	12.3	13.3	14.3	13.3	13.4	13.5
<b>HCC TOTAL</b>			<b>590.8</b>	<b>464.1</b>	<b>409.5</b>	<b>547.5</b>	<b>602.2</b>	<b>478.5</b>	<b>472.4</b>	<b>343.8</b>	<b>389.7</b>	<b>353.5</b>	<b>365.6</b>	<b>438.1</b>	<b>454.7</b>
<b>ROR TOTAL</b>			<b>202.9</b>	<b>206.3</b>	<b>195.8</b>	<b>213.0</b>	<b>288.9</b>	<b>306.4</b>	<b>287.9</b>	<b>235.6</b>	<b>216.4</b>	<b>210.3</b>	<b>198.4</b>	<b>203.8</b>	<b>230.6</b>
<b>TOTAL</b>			<b>793.7</b>	<b>670.4</b>	<b>605.3</b>	<b>760.5</b>	<b>891.1</b>	<b>784.9</b>	<b>760.3</b>	<b>579.4</b>	<b>606.1</b>	<b>563.8</b>	<b>564.0</b>	<b>641.9</b>	<b>685.3</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**90th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2012	HCC	259.2	198.8	173.2	242.2	266.0	213.5	209.9	146.3	166.0	149.4	158.4	195.4	198.2
OXBOW	2012	HCC	111.5	88.7	77.6	100.7	110.1	88.0	88.4	66.5	75.5	68.2	69.7	81.4	85.5
HELLS CANYON	2012	HCC	219.6	176.1	158.6	204.6	228.1	177.0	173.8	130.7	147.9	134.8	138.1	180.9	170.7
1000 SPRINGS	2012	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2012	ROR	0.0	0.0	5.7	33.7	71.2	83.9	82.9	54.4	25.7	9.2	0.0	0.0	30.7
BLISS	2012	ROR	35.7	36.2	34.7	34.2	38.2	37.8	38.0	33.9	38.5	38.3	36.4	36.3	36.2
C.J. STRIKE	2012	ROR	45.4	45.7	45.3	42.7	45.4	41.2	36.3	35.5	42.7	47.8	46.2	45.6	43.3
CASCADE	2012	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2012	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2012	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2012	ROR	22.8	23.4	21.5	21.3	25.8	25.6	23.4	21.3	23.2	24.9	23.3	23.4	23.3
MILNER	2012	ROR	6.3	6.7	2.0	0.0	8.8	13.1	9.4	0.0	0.0	0.0	1.8	5.4	4.5
SHOSHONE FALLS	2012	ROR	12.0	12.0	10.2	8.0	12.0	12.0	12.0	9.7	7.3	9.5	11.4	12.0	10.7
SWAN FALLS	2012	ROR	15.2	15.2	15.2	14.6	15.3	14.6	12.7	12.1	14.2	15.4	15.3	15.2	14.6
TWIN FALLS	2012	ROR	9.7	9.6	6.4	4.3	12.0	16.9	13.2	5.9	3.8	5.8	7.5	9.3	8.7
UPPER MALAD	2012	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2012	ROR	13.8	14.4	13.1	12.9	16.4	16.1	14.4	12.9	14.1	15.3	14.1	14.2	14.3
UPPER SALMON 3&4	2012	ROR	13.0	13.5	12.4	12.2	15.2	14.9	13.5	12.2	13.3	14.3	13.2	13.3	13.4
HCC TOTAL			590.3	463.6	409.4	547.5	602.1	478.5	472.1	343.5	389.4	352.4	366.2	437.7	454.4
ROR TOTAL			202.5	205.8	195.6	213.0	288.8	306.2	287.5	235.1	216.4	210.2	198.0	203.4	230.3
TOTAL			792.8	669.4	605.0	760.5	890.9	784.7	759.6	578.6	605.8	562.6	564.2	641.1	684.7

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2013	HCC	259.0	198.7	189.3	230.3	265.9	213.5	209.9	146.2	165.9	149.3	158.3	195.2	198.5
OXBOW	2013	HCC	111.4	88.6	82.0	96.2	110.0	88.0	88.4	66.5	75.5	68.2	69.7	81.3	85.5
HELLS CANYON	2013	HCC	219.4	176.0	167.3	195.8	226.0	177.0	173.7	130.6	147.8	134.7	138.0	180.7	170.6
1000 SPRINGS	2013	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2013	ROR	0.0	0.0	5.7	33.8	71.2	84.0	82.5	54.0	25.7	9.2	0.0	0.0	30.7
BLISS	2013	ROR	35.7	36.1	34.6	34.2	38.1	37.8	35.9	33.8	36.4	38.3	36.4	36.3	36.1
C.J. STRIKE	2013	ROR	45.4	45.6	45.2	42.6	45.3	41.2	36.3	35.4	42.6	47.8	46.2	45.6	43.2
CASCADE	2013	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2013	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2013	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2013	ROR	22.8	23.4	21.5	21.3	25.8	25.6	23.4	21.2	23.2	24.9	23.3	23.3	23.3
MILNER	2013	ROR	6.2	6.6	2.0	0.0	8.8	13.1	9.4	0.0	0.0	0.0	1.8	5.3	4.4
SHOSHONE FALLS	2013	ROR	12.0	12.0	10.2	8.0	12.0	12.0	12.0	9.7	7.3	9.5	11.4	12.0	10.7
SWAN FALLS	2013	ROR	15.2	15.4	15.2	14.6	15.3	14.5	12.7	12.1	14.2	15.4	15.3	15.4	14.6
TWIN FALLS	2013	ROR	9.7	9.6	6.4	4.3	12.0	16.9	13.2	5.9	3.8	5.8	7.5	9.3	8.7
UPPER MALAD	2013	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2013	ROR	13.8	14.4	13.1	12.9	16.4	16.1	14.3	12.9	14.1	15.2	14.1	14.2	14.3
UPPER SALMON 3&4	2013	ROR	13.0	13.5	12.4	12.2	15.2	14.9	13.5	12.2	13.3	14.2	13.2	13.3	13.4
HCC TOTAL			589.8	463.3	438.6	522.3	601.8	478.5	472.0	343.3	389.2	352.2	366.0	437.2	454.6
ROR TOTAL			202.4	205.7	195.4	213.0	288.6	306.2	286.9	234.4	216.2	210.0	198.0	203.4	230.2
TOTAL			792.2	669.0	634.0	735.3	890.4	784.7	758.9	577.7	605.4	562.2	564.0	640.6	684.8

## 2009 Integrated Resource Plan

Average Megawatt Hydro Output from PDR580  
90th Percentile Water, 70th Percentile Load

## Abbreviations:

HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2014	HCC	258.4	198.0	202.7	211.8	265.4	213.5	195.8	145.7	165.4	148.2	158.6	194.8	196.6
OXBOW	2014	HCC	111.2	88.4	88.5	89.1	109.8	88.0	82.4	66.2	75.3	67.7	69.8	81.1	84.8
HELLS CANYON	2014	HCC	219.0	175.4	180.1	182.2	225.6	177.0	162.1	130.2	147.4	133.7	138.2	160.4	169.3
1000 SPRINGS	2014	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2014	ROR	0.0	0.0	5.6	33.8	71.0	83.5	76.9	52.4	25.6	9.4	0.0	0.0	30.0
BLISS	2014	ROR	35.5	36.0	34.5	34.0	38.0	37.6	32.3	33.7	36.3	38.1	36.3	36.1	35.7
C.J. STRIKE	2014	ROR	45.2	45.5	45.1	42.5	45.2	41.0	31.5	35.2	42.5	47.6	46.0	45.4	42.7
CASCADE	2014	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2014	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2014	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2014	ROR	22.8	23.3	21.4	21.2	25.7	25.5	20.3	21.1	23.1	24.8	23.2	23.2	23.0
MILNER	2014	ROR	6.2	6.4	2.0	0.0	8.8	13.1	0.0	0.0	0.0	0.0	1.8	5.2	3.6
SHOSHONE FALLS	2014	ROR	12.0	12.0	10.2	8.0	12.0	12.0	8.9	9.6	7.2	9.4	11.4	12.0	10.4
SWAN FALLS	2014	ROR	15.4	15.4	15.2	14.5	15.3	14.5	11.1	12.0	14.1	15.3	15.2	15.4	14.4
TWIN FALLS	2014	ROR	9.4	9.3	6.4	4.3	11.9	16.9	5.3	5.9	3.7	5.7	7.4	9.1	7.9
UPPER MALAD	2014	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2014	ROR	13.8	14.3	13.0	12.9	16.3	16.0	11.9	12.8	14.0	15.2	14.0	14.0	14.0
UPPER SALMON 3&4	2014	ROR	13.0	13.5	12.3	12.2	15.2	14.9	11.4	12.1	13.2	14.2	13.2	13.2	13.2
<b>HCC TOTAL</b>			<b>588.6</b>	<b>461.8</b>	<b>471.3</b>	<b>483.1</b>	<b>600.7</b>	<b>478.5</b>	<b>440.3</b>	<b>342.1</b>	<b>388.0</b>	<b>349.6</b>	<b>366.6</b>	<b>436.3</b>	<b>450.7</b>
<b>ROR TOTAL</b>			<b>201.9</b>	<b>204.8</b>	<b>194.8</b>	<b>212.5</b>	<b>287.8</b>	<b>305.1</b>	<b>243.3</b>	<b>232.0</b>	<b>215.4</b>	<b>209.4</b>	<b>197.3</b>	<b>202.3</b>	<b>225.6</b>
<b>TOTAL</b>			<b>790.5</b>	<b>666.6</b>	<b>666.1</b>	<b>695.6</b>	<b>888.5</b>	<b>783.6</b>	<b>683.6</b>	<b>574.1</b>	<b>603.4</b>	<b>559.0</b>	<b>563.9</b>	<b>638.6</b>	<b>676.4</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2015	HCC	258.0	197.5	207.5	204.3	264.8	213.5	195.3	145.1	165.0	147.5	158.5	194.8	196.1
OXBOW	2015	HCC	111.0	88.1	90.9	86.2	109.6	88.0	82.2	65.9	75.1	67.3	69.7	81.1	84.6
HELLS CANYON	2015	HCC	218.6	175.0	184.7	176.5	225.2	177.0	161.6	129.6	147.0	133.0	138.1	160.4	168.9
1000 SPRINGS	2015	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2015	ROR	0.0	0.0	5.5	34.3	70.6	80.5	74.1	51.0	25.1	9.4	0.0	0.0	29.4
BLISS	2015	ROR	35.4	35.9	34.4	33.9	37.9	37.1	32.1	33.6	36.0	38.0	36.2	36.0	35.5
C.J. STRIKE	2015	ROR	45.0	45.3	44.9	42.3	45.0	40.5	31.3	35.0	42.3	47.4	45.8	45.2	42.5
CASCADE	2015	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2015	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2015	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2015	ROR	22.7	23.2	21.3	21.1	25.6	25.3	20.1	21.0	22.9	24.7	23.1	23.1	22.8
MILNER	2015	ROR	5.9	6.0	2.0	0.0	8.8	10.5	0.0	0.0	0.0	0.0	1.8	5.0	3.3
SHOSHONE FALLS	2015	ROR	12.0	12.0	10.1	7.9	12.0	12.0	8.9	9.6	7.2	9.4	11.3	12.0	10.4
SWAN FALLS	2015	ROR	15.3	15.3	15.1	14.4	15.2	14.4	11.0	12.0	14.1	15.3	15.2	15.4	14.4
TWIN FALLS	2015	ROR	9.4	9.3	6.3	4.2	11.9	15.1	5.3	5.9	3.7	5.7	7.4	9.0	7.8
UPPER MALAD	2015	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2015	ROR	13.7	14.2	12.9	12.8	16.2	15.8	11.8	12.7	13.9	15.1	13.9	14.0	13.9
UPPER SALMON 3&4	2015	ROR	12.9	13.4	12.2	12.1	15.1	14.7	11.3	12.0	13.1	14.1	13.1	13.1	13.1
<b>HCC TOTAL</b>			<b>587.6</b>	<b>460.6</b>	<b>483.1</b>	<b>467.0</b>	<b>599.5</b>	<b>478.5</b>	<b>439.1</b>	<b>340.6</b>	<b>387.0</b>	<b>347.8</b>	<b>366.3</b>	<b>436.3</b>	<b>449.6</b>
<b>ROR TOTAL</b>			<b>200.9</b>	<b>203.7</b>	<b>193.8</b>	<b>212.1</b>	<b>286.7</b>	<b>296.0</b>	<b>239.6</b>	<b>230.0</b>	<b>214.0</b>	<b>208.8</b>	<b>196.6</b>	<b>201.5</b>	<b>223.7</b>
<b>TOTAL</b>			<b>788.5</b>	<b>664.3</b>	<b>676.9</b>	<b>679.1</b>	<b>886.2</b>	<b>774.5</b>	<b>678.7</b>	<b>570.6</b>	<b>601.0</b>	<b>556.6</b>	<b>562.9</b>	<b>637.8</b>	<b>673.4</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**90th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
HCC - Hells Canyon Complex  
ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2016	HCC	257.5	197.1	183.8	234.3	264.3	213.5	194.8	144.5	164.5	146.4	158.8	194.1	196.2
OXBOW	2016	HCC	110.8	87.9	78.4	97.6	109.4	88.0	82.0	65.7	74.9	66.8	69.8	80.8	84.4
HELLS CANYON	2016	HCC	218.2	174.6	162.4	198.7	224.7	177.0	161.2	129.1	146.7	132.0	138.3	159.8	168.6
1000 SPRINGS	2016	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2016	ROR	0.0	0.0	5.4	34.6	70.6	79.1	73.7	48.2	25.1	9.2	0.0	0.0	28.9
BLISS	2016	ROR	35.3	35.7	34.2	33.8	37.7	37.1	31.8	33.3	35.9	37.9	36.2	35.9	35.4
C.J. STRIKE	2016	ROR	44.8	45.1	44.7	42.1	44.8	40.3	31.2	34.8	42.1	47.3	45.7	45.0	42.3
CASCADE	2016	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2016	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2016	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2016	ROR	22.5	23.1	21.2	21.0	25.5	25.1	20.0	20.9	22.8	24.6	23.0	23.0	22.7
MILNER	2016	ROR	5.9	5.9	2.0	0.0	8.8	10.5	0.0	0.0	0.0	0.0	1.8	5.0	3.3
SHOSHONE FALLS	2016	ROR	12.0	12.0	10.1	7.9	12.0	12.0	8.9	9.6	7.2	9.4	11.3	12.0	10.4
SWAN FALLS	2016	ROR	15.2	15.3	15.1	14.4	15.1	14.4	11.0	11.9	14.0	15.3	15.4	15.3	14.4
TWIN FALLS	2016	ROR	9.4	9.3	6.3	4.2	11.9	15.0	5.3	5.8	3.7	5.7	7.3	9.0	7.7
UPPER MALAD	2016	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2016	ROR	13.6	14.2	12.8	12.7	16.2	15.6	11.7	12.6	13.8	15.0	13.8	13.9	13.8
UPPER SALMON 3&4	2016	ROR	12.8	13.3	12.2	12.1	15.0	14.6	11.2	12.0	13.0	14.0	13.0	13.1	13.0
<b>HCC TOTAL</b>			<b>586.5</b>	<b>459.6</b>	<b>425.6</b>	<b>530.6</b>	<b>598.3</b>	<b>478.5</b>	<b>438.0</b>	<b>339.3</b>	<b>386.0</b>	<b>345.2</b>	<b>366.9</b>	<b>434.7</b>	<b>449.1</b>
<b>ROR TOTAL</b>			<b>200.1</b>	<b>203.0</b>	<b>193.1</b>	<b>211.9</b>	<b>286.1</b>	<b>293.8</b>	<b>238.5</b>	<b>226.3</b>	<b>213.2</b>	<b>208.1</b>	<b>196.3</b>	<b>200.9</b>	<b>222.7</b>
<b>TOTAL</b>			<b>786.6</b>	<b>662.6</b>	<b>618.7</b>	<b>742.5</b>	<b>884.4</b>	<b>772.3</b>	<b>676.5</b>	<b>565.6</b>	<b>599.2</b>	<b>553.3</b>	<b>563.2</b>	<b>635.6</b>	<b>671.8</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2017	HCC	257.0	196.6	185.4	231.0	263.8	213.5	194.2	143.9	164.0	145.6	158.3	193.8	195.6
OXBOW	2017	HCC	110.6	87.7	80.2	96.4	109.2	88.0	81.7	65.4	74.6	66.4	69.6	80.7	84.2
HELLS CANYON	2017	HCC	217.8	174.2	163.9	198.2	224.3	177.0	160.8	128.5	146.2	131.3	137.8	159.6	168.1
1000 SPRINGS	2017	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2017	ROR	0.0	0.0	5.4	34.8	70.5	78.5	73.6	45.9	24.9	9.2	0.0	0.0	28.7
BLISS	2017	ROR	35.1	35.6	34.1	33.7	37.6	36.9	31.5	33.1	35.8	37.8	36.0	35.7	35.2
C.J. STRIKE	2017	ROR	44.6	44.9	44.5	41.9	44.6	40.1	31.0	34.6	41.9	47.1	45.7	44.9	42.1
CASCADE	2017	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2017	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2017	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2017	ROR	22.5	23.0	21.1	20.8	25.4	24.9	19.9	20.8	22.7	24.5	22.9	22.9	22.6
MILNER	2017	ROR	5.9	5.9	2.0	0.0	8.8	10.5	0.0	0.0	0.0	0.0	1.8	5.0	3.3
SHOSHONE FALLS	2017	ROR	12.0	12.0	10.1	7.8	12.0	12.0	8.8	9.5	7.1	9.3	11.3	12.0	10.3
SWAN FALLS	2017	ROR	15.2	15.2	15.0	14.3	15.1	14.3	10.9	11.8	13.9	15.3	15.3	15.3	14.3
TWIN FALLS	2017	ROR	9.4	9.3	6.3	4.2	11.8	15.0	5.2	5.8	3.6	5.6	7.3	9.0	7.7
UPPER MALAD	2017	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2017	ROR	13.5	14.1	12.7	12.6	16.1	15.5	11.6	12.5	13.8	14.9	13.7	13.8	13.7
UPPER SALMON 3&4	2017	ROR	12.8	13.3	12.1	12.0	15.0	14.5	11.2	11.9	13.0	14.0	13.0	13.0	13.0
<b>HCC TOTAL</b>			<b>585.4</b>	<b>458.5</b>	<b>429.5</b>	<b>523.8</b>	<b>597.2</b>	<b>478.5</b>	<b>436.7</b>	<b>337.8</b>	<b>384.8</b>	<b>343.3</b>	<b>365.7</b>	<b>434.1</b>	<b>447.9</b>
<b>ROR TOTAL</b>			<b>199.6</b>	<b>202.4</b>	<b>192.4</b>	<b>211.3</b>	<b>285.3</b>	<b>292.3</b>	<b>237.4</b>	<b>223.1</b>	<b>212.4</b>	<b>207.4</b>	<b>195.8</b>	<b>200.3</b>	<b>221.7</b>
<b>TOTAL</b>			<b>785.0</b>	<b>660.9</b>	<b>621.9</b>	<b>734.9</b>	<b>882.5</b>	<b>770.8</b>	<b>674.1</b>	<b>560.9</b>	<b>597.2</b>	<b>550.7</b>	<b>561.5</b>	<b>634.4</b>	<b>669.7</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**90th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2018	HCC	256.4	196.1	188.2	226.2	263.3	209.2	193.7	143.4	163.5	144.5	158.6	193.3	194.7
OXBOW	2018	HCC	110.3	87.5	81.6	94.5	108.9	86.2	81.5	65.1	74.4	65.9	69.7	80.5	83.8
HELLS CANYON	2018	HCC	217.3	173.7	166.5	192.7	223.9	173.6	160.4	128.1	145.8	130.3	138.0	159.1	167.4
1000 SPRINGS	2018	ROR	6.5	6.5	6.1	8.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2018	ROR	0.0	0.0	5.3	35.1	70.1	77.6	66.8	45.8	25.0	9.1	0.0	0.0	28.1
BLISS	2018	ROR	35.0	35.5	34.0	33.6	37.5	36.7	31.5	33.0	35.6	37.6	35.9	35.7	35.1
C.J. STRIKE	2018	ROR	44.5	44.6	44.4	41.8	44.5	39.8	30.8	34.4	41.7	46.9	45.7	44.9	42.0
CASCADE	2018	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2018	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2018	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2018	ROR	22.4	22.8	21.0	20.8	25.3	24.7	19.8	20.7	22.6	24.4	22.8	22.8	22.5
MILNER	2018	ROR	5.9	5.9	2.0	0.0	8.8	10.5	0.0	0.0	0.0	0.0	1.8	5.0	3.3
SHOSHONE FALLS	2018	ROR	12.0	12.0	10.0	7.8	12.0	12.0	8.8	9.5	7.1	9.3	11.2	12.0	10.3
SWAN FALLS	2018	ROR	15.1	15.1	15.0	14.3	15.0	14.1	10.8	11.8	13.9	15.2	15.3	15.2	14.2
TWIN FALLS	2018	ROR	9.4	9.2	6.2	4.2	11.8	15.0	5.2	5.7	0.0	5.6	7.3	9.0	7.4
UPPER MALAD	2018	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2018	ROR	13.5	14.0	12.7	12.5	16.0	15.3	11.6	12.4	13.7	14.9	13.7	13.7	13.7
UPPER SALMON 3&4	2018	ROR	12.7	13.2	12.0	11.9	14.9	14.3	11.1	11.8	12.9	13.9	12.9	12.9	12.9
<b>HCC TOTAL</b>			<b>584.0</b>	<b>457.3</b>	<b>436.3</b>	<b>513.4</b>	<b>596.0</b>	<b>469.0</b>	<b>435.6</b>	<b>336.6</b>	<b>383.7</b>	<b>340.7</b>	<b>366.3</b>	<b>432.9</b>	<b>446.0</b>
<b>ROR TOTAL</b>			<b>199.1</b>	<b>201.4</b>	<b>191.7</b>	<b>211.1</b>	<b>284.3</b>	<b>290.1</b>	<b>230.1</b>	<b>222.3</b>	<b>208.2</b>	<b>206.6</b>	<b>195.4</b>	<b>199.9</b>	<b>220.1</b>
<b>TOTAL</b>			<b>783.1</b>	<b>658.7</b>	<b>628.0</b>	<b>724.5</b>	<b>880.3</b>	<b>759.1</b>	<b>665.7</b>	<b>558.9</b>	<b>591.8</b>	<b>547.3</b>	<b>561.7</b>	<b>632.8</b>	<b>666.1</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2019	HCC	256.0	195.6	190.5	222.0	262.7	208.7	193.1	142.9	163.1	143.5	158.9	192.8	194.2
OXBOW	2019	HCC	110.1	87.3	82.7	92.9	108.7	86.0	81.3	64.9	74.2	65.3	69.8	80.3	83.6
HELLS CANYON	2019	HCC	216.9	173.3	168.8	189.5	223.5	173.1	159.9	127.6	145.4	129.3	138.2	158.7	167.0
1000 SPRINGS	2019	ROR	6.5	6.5	6.1	8.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2019	ROR	0.0	0.0	5.3	35.4	69.9	77.0	64.6	45.4	24.9	9.2	0.0	0.0	27.8
BLISS	2019	ROR	34.9	35.3	33.9	33.4	37.4	36.5	31.2	32.8	35.5	37.5	35.8	35.6	35.0
C.J. STRIKE	2019	ROR	44.3	44.4	44.2	41.6	44.3	39.6	30.6	34.4	41.5	46.7	45.5	44.9	41.8
CASCADE	2019	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2019	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2019	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2019	ROR	22.2	22.7	20.9	20.7	25.2	24.6	19.7	20.6	22.5	24.3	22.7	22.7	22.4
MILNER	2019	ROR	5.9	5.9	2.0	0.0	8.8	9.6	0.0	0.0	0.0	0.0	1.8	5.0	3.2
SHOSHONE FALLS	2019	ROR	12.0	12.0	10.0	7.7	12.0	12.0	8.8	9.4	7.0	9.2	11.2	12.0	10.3
SWAN FALLS	2019	ROR	15.1	15.1	15.0	14.2	15.0	14.1	10.8	11.7	13.8	15.2	15.2	15.2	14.2
TWIN FALLS	2019	ROR	9.3	9.2	6.2	4.1	11.8	14.0	5.2	5.7	0.0	5.6	7.2	9.0	7.3
UPPER MALAD	2019	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2019	ROR	13.4	13.9	12.6	12.5	15.9	15.3	11.5	12.4	13.6	14.8	13.6	13.6	13.6
UPPER SALMON 3&4	2019	ROR	12.6	13.1	12.0	11.9	14.8	14.3	11.0	11.8	12.8	13.8	12.8	12.9	12.8
<b>HCC TOTAL</b>			<b>583.0</b>	<b>456.2</b>	<b>442.0</b>	<b>504.4</b>	<b>594.8</b>	<b>467.8</b>	<b>434.3</b>	<b>335.4</b>	<b>382.6</b>	<b>338.1</b>	<b>366.9</b>	<b>431.8</b>	<b>444.8</b>
<b>ROR TOTAL</b>			<b>198.3</b>	<b>200.7</b>	<b>191.2</b>	<b>210.6</b>	<b>283.5</b>	<b>287.1</b>	<b>227.1</b>	<b>221.4</b>	<b>207.3</b>	<b>206.0</b>	<b>194.6</b>	<b>199.6</b>	<b>219.0</b>
<b>TOTAL</b>			<b>781.3</b>	<b>656.9</b>	<b>633.2</b>	<b>715.0</b>	<b>878.3</b>	<b>754.9</b>	<b>661.4</b>	<b>556.8</b>	<b>589.9</b>	<b>544.1</b>	<b>561.5</b>	<b>631.4</b>	<b>663.9</b>

**2009 Integrated Resource Plan**  
 Average Megawatt Hydro Output from PDR580  
 90th Percentile Water, 70th Percentile Load

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2020	HCC	255.5	195.1	193.3	217.3	262.2	208.1	192.7	142.3	162.6	142.7	158.8	192.2	193.6
OXBOW	2020	HCC	109.9	87.1	84.0	91.1	108.5	85.8	81.1	64.6	74.0	64.8	69.7	80.0	83.4
HELLS CANYON	2020	HCC	216.5	172.9	171.4	186.0	223.1	172.7	159.5	127.1	145.0	128.5	138.1	158.3	166.6
1000 SPRINGS	2020	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2020	ROR	0.0	0.0	5.3	35.7	69.8	76.9	62.6	44.6	23.6	9.3	0.0	0.0	27.4
BLISS	2020	ROR	34.8	35.2	33.7	33.3	37.2	36.4	31.1	32.7	35.4	37.4	35.6	35.5	34.9
C.J. STRIKE	2020	ROR	44.1	44.2	44.0	41.4	44.1	39.4	30.5	34.4	41.3	46.5	45.3	44.7	41.6
CASCADE	2020	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2020	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2020	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2020	ROR	22.1	22.6	20.8	20.6	25.1	24.5	19.6	20.5	22.3	24.2	22.6	22.6	22.3
MILNER	2020	ROR	5.9	5.9	2.0	0.0	8.8	9.6	0.0	0.0	0.0	0.0	1.8	5.0	3.2
SHOSHONE FALLS	2020	ROR	12.0	12.0	9.9	7.7	12.0	12.0	8.7	9.4	7.0	9.2	11.1	12.0	10.2
SWAN FALLS	2020	ROR	15.0	15.0	15.0	14.2	14.9	14.0	10.8	11.7	13.8	15.4	15.2	15.1	14.2
TWIN FALLS	2020	ROR	9.3	9.2	6.1	4.1	11.8	13.9	5.1	5.7	0.0	5.5	7.2	9.0	7.2
UPPER MALAD	2020	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2020	ROR	13.3	13.8	12.5	12.4	15.8	15.2	11.4	12.3	13.5	14.7	13.5	13.6	13.5
UPPER SALMON 3&4	2020	ROR	12.6	13.0	11.9	11.8	14.7	14.2	11.0	11.7	12.7	13.8	12.8	12.8	12.7
<b>HCC TOTAL</b>			<b>581.9</b>	<b>455.1</b>	<b>448.7</b>	<b>494.4</b>	<b>593.7</b>	<b>466.6</b>	<b>433.3</b>	<b>334.0</b>	<b>381.5</b>	<b>336.1</b>	<b>366.6</b>	<b>430.5</b>	<b>443.6</b>
<b>ROR TOTAL</b>			<b>197.7</b>	<b>200.0</b>	<b>190.3</b>	<b>210.3</b>	<b>282.7</b>	<b>286.2</b>	<b>224.5</b>	<b>220.2</b>	<b>205.2</b>	<b>205.7</b>	<b>193.9</b>	<b>199.0</b>	<b>218.0</b>
<b>TOTAL</b>			<b>779.6</b>	<b>655.1</b>	<b>639.0</b>	<b>704.7</b>	<b>876.4</b>	<b>752.8</b>	<b>657.8</b>	<b>554.2</b>	<b>586.7</b>	<b>541.8</b>	<b>560.5</b>	<b>629.5</b>	<b>661.7</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2021	HCC	254.9	194.6	193.5	215.8	261.7	207.6	192.2	141.7	158.6	141.6	158.7	192.2	192.8
OXBOW	2021	HCC	109.7	86.8	84.2	90.5	108.3	85.5	80.9	64.3	73.8	64.4	69.7	80.0	83.2
HELLS CANYON	2021	HCC	216.0	172.5	171.7	184.8	222.6	172.3	159.1	126.6	144.4	127.5	138.0	158.2	166.2
1000 SPRINGS	2021	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2021	ROR	0.0	0.0	5.2	36.0	69.7	76.3	60.6	44.3	23.5	9.4	0.0	0.0	27.2
BLISS	2021	ROR	34.7	35.1	33.6	33.2	37.2	36.3	30.9	32.5	35.2	37.2	35.5	35.4	34.7
C.J. STRIKE	2021	ROR	44.0	44.0	43.9	41.2	44.0	39.2	30.3	34.2	41.2	46.4	45.2	44.5	41.5
CASCADE	2021	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2021	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2021	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2021	ROR	22.0	22.6	20.7	20.5	25.0	24.3	19.5	20.4	22.2	24.1	22.5	22.5	22.2
MILNER	2021	ROR	5.9	5.9	2.0	0.0	8.8	8.5	0.0	0.0	0.0	0.0	1.8	5.0	3.1
SHOSHONE FALLS	2021	ROR	12.0	12.0	9.9	7.6	12.0	12.0	8.7	9.3	6.9	9.1	11.1	12.0	10.2
SWAN FALLS	2021	ROR	15.0	15.0	15.0	14.1	14.9	14.0	10.7	11.6	13.7	15.3	15.1	15.1	14.1
TWIN FALLS	2021	ROR	9.3	9.2	6.1	4.0	11.8	12.1	5.1	5.6	0.0	5.5	7.2	9.0	7.1
UPPER MALAD	2021	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2021	ROR	13.2	13.8	12.4	12.3	15.8	15.0	11.3	12.2	13.4	14.6	13.4	13.5	13.4
UPPER SALMON 3&4	2021	ROR	12.5	13.0	11.8	11.7	14.7	14.1	10.9	11.6	12.6	13.7	12.7	12.7	12.7
<b>HCC TOTAL</b>			<b>580.6</b>	<b>453.9</b>	<b>449.4</b>	<b>491.1</b>	<b>592.5</b>	<b>465.4</b>	<b>432.2</b>	<b>332.8</b>	<b>376.7</b>	<b>333.5</b>	<b>366.4</b>	<b>430.4</b>	<b>442.1</b>
<b>ROR TOTAL</b>			<b>197.2</b>	<b>199.7</b>	<b>189.7</b>	<b>209.7</b>	<b>282.3</b>	<b>281.9</b>	<b>221.7</b>	<b>218.9</b>	<b>204.3</b>	<b>205.0</b>	<b>193.3</b>	<b>198.4</b>	<b>216.9</b>
<b>TOTAL</b>			<b>777.8</b>	<b>653.6</b>	<b>639.1</b>	<b>700.8</b>	<b>874.8</b>	<b>747.3</b>	<b>653.9</b>	<b>551.5</b>	<b>581.0</b>	<b>538.5</b>	<b>559.7</b>	<b>628.8</b>	<b>659.1</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**90th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2022	HCC	254.4	194.2	195.8	211.6	261.2	207.0	191.7	141.2	158.1	140.9	158.7	191.7	192.3
OXBOW	2022	HCC	109.5	86.6	85.3	88.9	108.1	85.3	80.6	64.1	73.5	64.0	69.6	79.8	82.9
HELLS CANYON	2022	HCC	215.6	172.1	173.9	181.7	222.2	171.8	158.7	126.2	143.9	126.8	137.9	157.8	165.7
1000 SPRINGS	2022	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2022	ROR	0.0	0.0	5.2	36.3	69.5	75.6	58.8	44.2	23.3	9.5	0.0	0.0	26.8
BLISS	2022	ROR	34.6	34.9	33.5	33.0	37.2	35.7	30.8	32.4	35.1	37.1	35.4	35.2	34.6
C.J. STRIKE	2022	ROR	43.8	43.8	43.7	41.1	43.8	38.7	30.1	34.0	41.0	46.3	45.0	44.4	41.3
CASCADE	2022	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2022	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2022	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2022	ROR	21.9	22.5	20.6	20.4	24.9	24.2	19.4	20.3	22.1	23.9	22.4	22.4	22.1
MILNER	2022	ROR	5.9	5.9	2.0	0.0	8.8	8.5	0.0	0.0	0.0	0.0	1.8	5.0	3.1
SHOSHONE FALLS	2022	ROR	12.0	12.0	9.8	7.6	12.0	12.0	8.7	9.3	6.9	9.1	11.0	12.0	10.2
SWAN FALLS	2022	ROR	14.9	14.9	15.0	14.1	14.8	13.7	10.6	11.5	13.6	15.3	15.1	15.1	14.0
TWIN FALLS	2022	ROR	9.3	9.1	6.1	4.0	11.8	12.0	5.1	5.6	0.0	5.5	7.1	8.9	7.0
UPPER MALAD	2022	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2022	ROR	13.1	13.7	12.3	12.2	15.7	15.0	11.2	12.1	13.3	14.5	13.4	13.4	13.3
UPPER SALMON 3&4	2022	ROR	12.4	12.9	11.8	11.7	14.6	14.0	10.8	11.6	12.6	13.6	12.6	12.7	12.6
<b>HCC TOTAL</b>			<b>579.5</b>	<b>452.9</b>	<b>455.0</b>	<b>482.2</b>	<b>591.4</b>	<b>464.1</b>	<b>431.0</b>	<b>331.5</b>	<b>375.5</b>	<b>331.7</b>	<b>366.2</b>	<b>429.3</b>	<b>441.0</b>
<b>ROR TOTAL</b>			<b>196.5</b>	<b>198.8</b>	<b>189.1</b>	<b>209.5</b>	<b>281.6</b>	<b>279.5</b>	<b>217.2</b>	<b>218.2</b>	<b>203.6</b>	<b>204.5</b>	<b>192.6</b>	<b>197.8</b>	<b>215.8</b>
<b>TOTAL</b>			<b>776.0</b>	<b>651.7</b>	<b>644.1</b>	<b>691.7</b>	<b>873.0</b>	<b>743.6</b>	<b>648.2</b>	<b>549.7</b>	<b>579.0</b>	<b>536.2</b>	<b>558.8</b>	<b>627.1</b>	<b>656.8</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2023	HCC	254.0	193.7	196.9	209.0	260.7	206.6	191.1	140.7	157.6	139.8	159.0	191.2	191.8
OXBOW	2023	HCC	109.3	86.4	85.9	87.9	107.9	85.1	80.4	63.9	73.3	63.5	69.7	79.6	82.7
HELLS CANYON	2023	HCC	215.2	171.7	174.9	179.7	221.8	171.4	158.3	125.7	143.5	125.8	138.1	157.4	165.3
1000 SPRINGS	2023	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2023	ROR	0.0	0.0	5.1	36.5	69.6	74.3	54.2	44.0	23.3	9.6	0.0	0.0	26.5
BLISS	2023	ROR	34.4	34.8	33.3	32.9	37.2	35.5	30.7	32.3	34.9	37.0	35.2	35.1	34.4
C.J. STRIKE	2023	ROR	43.6	43.7	43.5	40.9	43.6	38.3	29.9	33.9	40.8	46.3	44.9	44.2	41.1
CASCADE	2023	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2023	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2023	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2023	ROR	21.8	22.4	20.5	20.3	24.8	24.1	19.2	20.2	22.0	23.8	22.3	22.3	22.0
MILNER	2023	ROR	5.9	5.9	2.0	0.0	8.8	8.5	0.0	0.0	0.0	0.0	1.8	5.0	3.1
SHOSHONE FALLS	2023	ROR	12.0	12.0	9.8	7.5	12.0	12.0	8.7	9.3	6.9	9.0	11.0	12.0	10.2
SWAN FALLS	2023	ROR	14.9	14.9	15.0	14.1	14.8	13.7	10.6	11.5	13.6	15.2	15.0	15.1	14.0
TWIN FALLS	2023	ROR	9.2	9.1	6.0	4.0	11.8	12.0	5.1	5.6	0.0	5.4	7.1	8.9	7.0
UPPER MALAD	2023	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2023	ROR	13.1	13.6	12.3	12.1	15.6	14.9	11.1	12.0	13.2	14.5	13.3	13.3	13.2
UPPER SALMON 3&4	2023	ROR	12.4	12.8	11.7	11.6	14.5	13.9	10.7	11.5	12.5	13.6	12.6	12.6	12.5
<b>HCC TOTAL</b>			<b>578.5</b>	<b>451.8</b>	<b>457.7</b>	<b>476.6</b>	<b>590.3</b>	<b>463.1</b>	<b>429.8</b>	<b>330.3</b>	<b>374.4</b>	<b>329.1</b>	<b>366.8</b>	<b>428.2</b>	<b>439.8</b>
<b>ROR TOTAL</b>			<b>195.9</b>	<b>198.3</b>	<b>188.3</b>	<b>209.0</b>	<b>281.2</b>	<b>277.3</b>	<b>213.9</b>	<b>217.5</b>	<b>202.9</b>	<b>204.1</b>	<b>192.0</b>	<b>197.2</b>	<b>214.9</b>
<b>TOTAL</b>			<b>774.4</b>	<b>650.1</b>	<b>646.0</b>	<b>685.6</b>	<b>871.5</b>	<b>740.4</b>	<b>643.7</b>	<b>547.8</b>	<b>577.2</b>	<b>533.2</b>	<b>558.8</b>	<b>625.4</b>	<b>654.7</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**90th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2024	HCC	253.5	193.2	193.8	211.8	260.2	206.0	190.6	140.2	157.2	139.0	158.9	190.6	191.3
OXBOW	2024	HCC	109.0	86.2	84.4	88.9	107.6	84.9	80.2	63.7	73.1	63.1	69.7	79.4	82.5
HELLS CANYON	2024	HCC	214.8	171.2	172.1	181.7	221.4	171.0	157.8	125.3	143.1	125.1	138.0	157.0	164.9
1000 SPRINGS	2024	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2024	ROR	0.0	0.0	5.1	36.8	69.8	73.0	53.1	43.9	23.3	9.7	0.0	0.0	26.3
BLISS	2024	ROR	34.3	34.7	33.2	32.8	37.2	35.4	30.5	32.1	34.8	36.8	35.1	35.0	34.3
C.J. STRIKE	2024	ROR	43.4	43.5	43.3	40.7	43.4	38.3	29.9	33.7	40.7	46.2	44.7	44.0	41.0
CASCADE	2024	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2024	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.8	1.8	1.8	1.8	1.7
LOWER MALAD	2024	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2024	ROR	21.7	22.3	20.4	20.2	24.7	24.0	19.1	20.1	21.9	23.7	22.2	22.2	21.9
MILNER	2024	ROR	5.9	5.9	2.0	0.0	8.8	7.7	0.0	0.0	0.0	0.0	1.8	5.0	3.1
SHOSHONE FALLS	2024	ROR	12.0	12.0	9.7	7.5	12.0	12.0	8.7	9.2	6.8	9.0	11.0	12.0	10.2
SWAN FALLS	2024	ROR	14.8	14.9	15.0	14.1	14.7	13.7	10.5	11.4	13.5	15.2	15.0	15.0	14.0
TWIN FALLS	2024	ROR	9.2	9.1	6.0	3.9	11.8	11.9	5.1	5.5	0.0	5.4	7.1	8.9	7.0
UPPER MALAD	2024	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2024	ROR	13.0	13.5	12.2	12.1	15.5	14.7	11.0	12.0	13.1	14.4	13.2	13.3	13.2
UPPER SALMON 3&4	2024	ROR	12.3	12.8	11.6	11.5	14.5	13.8	10.6	11.4	12.4	13.5	12.5	12.5	12.4
<b>HCC TOTAL</b>			<b>577.3</b>	<b>450.6</b>	<b>450.3</b>	<b>482.4</b>	<b>589.2</b>	<b>461.9</b>	<b>428.6</b>	<b>329.2</b>	<b>373.3</b>	<b>327.2</b>	<b>366.6</b>	<b>427.0</b>	<b>438.8</b>
<b>ROR TOTAL</b>			<b>195.2</b>	<b>197.8</b>	<b>187.6</b>	<b>208.7</b>	<b>280.8</b>	<b>274.6</b>	<b>212.2</b>	<b>216.5</b>	<b>202.2</b>	<b>203.6</b>	<b>191.4</b>	<b>196.6</b>	<b>214.0</b>
<b>TOTAL</b>			<b>772.5</b>	<b>648.4</b>	<b>637.9</b>	<b>691.1</b>	<b>870.0</b>	<b>736.5</b>	<b>640.8</b>	<b>545.7</b>	<b>575.5</b>	<b>530.8</b>	<b>558.0</b>	<b>623.6</b>	<b>652.7</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2025	HCC	253.0	192.7	195.7	208.2	259.6	205.5	190.1	139.8	156.7	137.9	159.1	190.1	190.8
OXBOW	2025	HCC	108.8	86.0	85.4	87.5	107.4	84.7	80.0	63.4	72.9	62.6	69.8	79.1	82.3
HELLS CANYON	2025	HCC	214.4	170.8	174.0	179.0	221.0	170.6	157.4	124.9	142.7	124.1	138.2	156.5	164.5
1000 SPRINGS	2025	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2025	ROR	0.0	0.0	5.1	36.9	69.8	69.4	51.8	43.6	23.1	9.8	0.0	0.0	25.9
BLISS	2025	ROR	34.2	34.5	33.1	32.6	37.2	34.0	30.4	32.0	34.6	36.7	35.0	34.8	34.1
C.J. STRIKE	2025	ROR	43.3	43.3	43.2	40.6	43.3	38.3	29.8	33.5	40.6	46.0	44.5	43.8	40.8
CASCADE	2025	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2025	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.8	1.8	1.8	1.8	1.7
LOWER MALAD	2025	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2025	ROR	21.6	22.2	20.3	20.1	24.6	22.9	19.0	20.0	21.8	23.6	22.1	22.1	21.7
MILNER	2025	ROR	5.9	5.9	2.0	0.0	8.8	7.7	0.0	0.0	0.0	0.0	1.8	5.0	3.1
SHOSHONE FALLS	2025	ROR	12.0	12.0	9.7	7.5	12.0	12.0	8.7	9.2	6.8	9.0	10.9	12.0	10.1
SWAN FALLS	2025	ROR	14.8	14.9	15.0	14.0	14.7	13.2	10.5	11.4	13.5	15.1	14.9	14.9	13.9
TWIN FALLS	2025	ROR	9.2	9.1	6.0	3.9	11.8	11.9	5.1	5.5	0.0	5.3	7.0	8.8	7.0
UPPER MALAD	2025	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2025	ROR	12.9	13.5	12.1	12.0	15.4	13.9	11.0	11.9	13.0	14.3	13.1	13.2	13.0
UPPER SALMON 3&4	2025	ROR	12.2	12.7	11.6	11.5	14.4	13.1	10.6	11.4	12.4	13.4	12.4	12.5	12.3
<b>HCC TOTAL</b>			<b>576.2</b>	<b>449.5</b>	<b>455.1</b>	<b>474.7</b>	<b>587.9</b>	<b>460.8</b>	<b>427.5</b>	<b>328.1</b>	<b>372.2</b>	<b>324.6</b>	<b>367.1</b>	<b>425.7</b>	<b>437.6</b>
<b>ROR TOTAL</b>			<b>194.7</b>	<b>197.2</b>	<b>187.2</b>	<b>208.2</b>	<b>280.4</b>	<b>266.5</b>	<b>210.6</b>	<b>215.7</b>	<b>201.5</b>	<b>202.9</b>	<b>190.5</b>	<b>195.8</b>	<b>212.7</b>
<b>TOTAL</b>			<b>770.9</b>	<b>646.7</b>	<b>642.3</b>	<b>682.9</b>	<b>868.3</b>	<b>727.3</b>	<b>638.1</b>	<b>543.8</b>	<b>573.6</b>	<b>527.5</b>	<b>557.6</b>	<b>621.5</b>	<b>650.2</b>

**2009 Integrated Resource Plan**  
 Average Megawatt Hydro Output from PDR580  
 90th Percentile Water, 70th Percentile Load

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2026	HCC	252.5	192.2	196.4	208.2	259.1	205.0	189.8	139.3	156.3	136.8	159.1	190.0	190.3
OXBOW	2026	HCC	108.6	85.8	85.7	86.7	107.2	84.5	79.8	63.2	72.7	62.1	69.7	79.1	82.1
HELLS CANYON	2026	HCC	214.0	170.4	174.6	177.5	220.6	170.1	157.0	124.4	142.3	123.0	138.0	156.4	164.0
1000 SPRINGS	2026	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2026	ROR	0.0	0.0	5.0	37.1	69.8	69.3	50.5	43.3	23.1	9.9	0.0	0.0	25.8
BLISS	2026	ROR	34.0	34.4	32.9	32.5	37.2	33.8	30.2	31.8	34.5	36.6	34.9	34.7	34.0
C.J. STRIKE	2026	ROR	43.1	43.2	43.0	40.5	43.1	38.3	29.6	33.3	40.4	45.9	44.3	43.7	40.7
CASCADE	2026	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2026	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2026	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2026	ROR	21.5	22.0	20.2	20.0	24.5	22.7	18.9	19.8	21.7	23.5	22.0	21.9	21.6
MILNER	2026	ROR	5.9	5.9	2.0	0.0	8.8	5.4	0.0	0.0	0.0	0.0	1.8	5.0	2.9
SHOSHONE FALLS	2026	ROR	12.0	12.0	9.7	7.4	12.0	12.0	8.7	9.1	6.7	8.9	10.9	12.0	10.1
SWAN FALLS	2026	ROR	14.8	14.8	15.0	14.0	14.6	13.1	10.4	11.3	13.4	15.1	14.9	14.9	13.9
TWIN FALLS	2026	ROR	9.2	9.0	5.9	3.9	11.8	9.9	5.1	5.5	0.0	5.3	7.0	8.8	6.8
UPPER MALAD	2026	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2026	ROR	12.8	13.4	12.0	11.9	15.4	13.8	10.9	11.8	13.0	14.2	13.1	13.1	12.9
UPPER SALMON 3&4	2026	ROR	12.2	12.6	11.5	11.4	14.3	13.0	10.5	11.3	12.3	13.4	12.4	12.4	12.3
<b>HCC TOTAL</b>			<b>575.1</b>	<b>448.4</b>	<b>456.7</b>	<b>470.4</b>	<b>586.8</b>	<b>459.6</b>	<b>426.4</b>	<b>326.9</b>	<b>371.2</b>	<b>321.9</b>	<b>366.8</b>	<b>425.5</b>	<b>436.4</b>
<b>ROR TOTAL</b>			<b>194.1</b>	<b>196.4</b>	<b>186.3</b>	<b>207.8</b>	<b>279.9</b>	<b>261.4</b>	<b>208.5</b>	<b>214.4</b>	<b>200.8</b>	<b>202.5</b>	<b>190.1</b>	<b>195.2</b>	<b>211.5</b>
<b>TOTAL</b>			<b>769.2</b>	<b>644.8</b>	<b>643.0</b>	<b>678.2</b>	<b>866.7</b>	<b>721.0</b>	<b>634.9</b>	<b>541.3</b>	<b>571.9</b>	<b>524.4</b>	<b>556.9</b>	<b>620.7</b>	<b>648.0</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2027	HCC	252.0	191.7	197.0	204.1	258.6	204.4	189.1	138.8	155.8	136.1	159.0	189.5	189.8
OXBOW	2027	HCC	108.4	85.5	86.1	85.9	107.0	84.2	79.6	63.0	72.4	61.7	69.7	78.9	81.9
HELLS CANYON	2027	HCC	213.5	170.0	175.3	175.9	220.1	169.7	156.6	124.0	141.9	122.3	138.0	156.0	163.6
1000 SPRINGS	2027	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2027	ROR	0.0	0.0	5.0	37.4	69.9	67.6	50.4	42.7	23.1	10.0	0.0	0.0	25.6
BLISS	2027	ROR	33.9	34.3	32.8	32.4	37.2	32.4	30.1	31.7	34.4	36.4	34.7	34.6	33.7
C.J. STRIKE	2027	ROR	42.9	43.0	42.8	40.5	42.9	38.1	29.4	33.1	40.4	45.7	44.2	43.5	40.5
CASCADE	2027	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2027	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2027	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2027	ROR	21.4	22.0	20.1	19.9	24.4	20.8	18.8	19.7	21.6	23.4	21.9	21.9	21.3
MILNER	2027	ROR	5.9	5.9	2.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	1.8	5.0	2.4
SHOSHONE FALLS	2027	ROR	12.0	12.0	9.6	7.4	12.0	9.3	8.7	9.1	6.7	8.9	10.8	12.0	9.9
SWAN FALLS	2027	ROR	14.7	14.8	15.0	14.0	14.6	13.1	10.4	11.2	13.4	15.0	14.8	14.8	13.8
TWIN FALLS	2027	ROR	9.2	9.0	5.9	3.8	11.8	5.6	5.1	5.4	0.0	5.3	6.9	8.8	6.4
UPPER MALAD	2027	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2027	ROR	12.7	13.3	11.9	11.8	15.3	12.3	10.8	11.7	12.9	14.1	13.0	13.0	12.7
UPPER SALMON 3&4	2027	ROR	12.1	12.6	11.4	11.3	14.3	11.7	10.4	11.2	12.2	13.3	12.3	12.3	12.1
<b>HCC TOTAL</b>			<b>573.9</b>	<b>447.2</b>	<b>458.4</b>	<b>465.9</b>	<b>585.6</b>	<b>458.3</b>	<b>425.3</b>	<b>325.8</b>	<b>370.1</b>	<b>320.1</b>	<b>366.7</b>	<b>424.4</b>	<b>435.3</b>
<b>ROR TOTAL</b>			<b>193.4</b>	<b>196.0</b>	<b>185.6</b>	<b>207.6</b>	<b>279.7</b>	<b>241.0</b>	<b>207.8</b>	<b>213.0</b>	<b>200.4</b>	<b>201.8</b>	<b>189.2</b>	<b>194.6</b>	<b>209.3</b>
<b>TOTAL</b>			<b>767.3</b>	<b>643.2</b>	<b>644.0</b>	<b>673.5</b>	<b>865.3</b>	<b>699.3</b>	<b>633.1</b>	<b>538.8</b>	<b>570.4</b>	<b>521.9</b>	<b>555.9</b>	<b>619.0</b>	<b>644.5</b>

**2009 Integrated Resource Plan**  
**Average Megawatt Hydro Output from PDR580**  
**90th Percentile Water, 70th Percentile Load**

**Abbreviations:**  
 HCC - Hells Canyon Complex  
 ROR - Run of River

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2028	HCC	251.5	191.2	197.7	202.1	258.1	203.9	188.6	138.3	155.4	134.9	159.3	189.0	189.2
OXBOW	2028	HCC	108.2	85.3	86.4	85.1	106.8	84.0	79.3	62.8	72.2	61.1	69.8	78.7	81.7
HELLS CANYON	2028	HCC	213.1	169.5	176.0	174.4	219.7	169.3	156.1	123.5	141.5	121.3	138.2	155.6	163.2
1000 SPRINGS	2028	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2028	ROR	0.0	0.0	5.0	37.6	70.0	66.4	49.6	41.6	23.0	10.0	0.0	0.0	25.3
BLISS	2028	ROR	33.8	34.1	32.7	32.2	37.2	32.3	30.0	31.6	34.2	36.3	34.6	34.4	33.6
C.J. STRIKE	2028	ROR	42.7	42.8	42.6	40.5	42.7	37.8	29.2	33.0	40.4	45.5	44.0	43.4	40.4
CASCADE	2028	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2028	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2028	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2028	ROR	21.3	21.8	20.0	19.8	24.3	20.6	18.6	19.5	21.5	23.3	21.8	21.7	21.2
MILNER	2028	ROR	5.9	5.9	2.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	1.8	5.0	2.5
SHOSHONE FALLS	2028	ROR	12.0	12.0	9.6	7.3	12.0	9.3	8.7	9.0	6.7	8.8	10.8	12.0	9.9
SWAN FALLS	2028	ROR	14.7	14.7	15.0	14.0	14.6	13.0	10.3	11.1	13.3	14.9	14.8	14.8	13.8
TWIN FALLS	2028	ROR	9.2	9.0	5.9	3.8	11.8	5.6	5.1	5.4	0.0	5.2	6.9	8.8	6.4
UPPER MALAD	2028	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2028	ROR	12.7	13.2	11.9	11.7	15.2	12.2	10.7	11.5	12.8	14.1	12.9	12.9	12.6
UPPER SALMON 3&4	2028	ROR	12.0	12.5	11.4	11.2	14.2	11.6	10.3	11.1	12.1	13.2	12.2	12.3	12.0
<b>HCC TOTAL</b>			<b>572.8</b>	<b>446.0</b>	<b>460.1</b>	<b>461.6</b>	<b>584.5</b>	<b>457.2</b>	<b>424.0</b>	<b>324.6</b>	<b>369.0</b>	<b>317.3</b>	<b>367.3</b>	<b>423.3</b>	<b>434.1</b>
<b>ROR TOTAL</b>			<b>192.9</b>	<b>195.1</b>	<b>185.2</b>	<b>207.2</b>	<b>279.3</b>	<b>238.9</b>	<b>206.2</b>	<b>211.0</b>	<b>199.7</b>	<b>201.0</b>	<b>188.6</b>	<b>194.0</b>	<b>208.3</b>
<b>TOTAL</b>			<b>765.7</b>	<b>641.1</b>	<b>645.3</b>	<b>668.8</b>	<b>863.8</b>	<b>696.1</b>	<b>630.2</b>	<b>535.6</b>	<b>568.7</b>	<b>518.3</b>	<b>555.9</b>	<b>617.3</b>	<b>642.5</b>

Resource	YEAR	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE. MW
BROWNLEE	2029	HCC	251.0	190.8	197.1	201.6	257.5	203.4	188.1	137.8	154.9	133.9	159.2	188.5	188.7
OXBOW	2029	HCC	108.0	85.1	86.2	84.9	106.6	83.8	79.1	62.5	72.0	60.6	69.7	78.4	81.4
HELLS CANYON	2029	HCC	212.7	169.1	175.5	174.0	219.3	168.9	155.7	123.1	141.0	120.3	138.0	155.2	162.8
1000 SPRINGS	2029	ROR	6.5	6.5	6.1	6.1	5.4	5.8	6.0	6.3	6.5	6.6	6.6	6.6	6.2
AMERICAN FALLS	2029	ROR	4.3	4.1	4.9	37.9	70.2	65.4	49.6	41.1	23.0	10.1	0.0	0.0	26.0
BLISS	2029	ROR	33.6	34.0	32.5	32.1	37.1	32.2	29.8	31.4	34.1	36.2	34.5	34.3	33.5
C.J. STRIKE	2029	ROR	42.6	42.7	42.5	40.4	42.6	37.6	29.1	32.8	40.2	45.5	43.9	43.3	40.2
CASCADE	2029	ROR	1.4	1.4	1.4	1.3	1.5	4.2	7.0	9.8	7.2	1.5	1.3	1.4	3.3
CLEAR LAKE	2029	ROR	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.6	1.6	1.8	1.8	1.8	1.7
LOWER MALAD	2029	ROR	12.1	12.5	12.8	13.0	12.6	11.6	12.2	12.6	13.1	13.2	12.2	12.1	12.5
LOWER SALMON	2029	ROR	21.2	21.7	19.9	19.7	24.2	20.5	18.5	19.4	21.4	23.2	21.7	21.6	21.1
MILNER	2029	ROR	5.9	5.9	2.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	1.8	5.0	2.4
SHOSHONE FALLS	2029	ROR	12.0	12.0	9.5	7.3	12.0	9.2	8.7	9.0	6.6	8.8	10.8	12.0	9.8
SWAN FALLS	2029	ROR	14.6	14.7	14.9	14.0	14.6	13.0	10.3	11.1	13.2	14.9	14.7	14.7	13.7
TWIN FALLS	2029	ROR	9.2	9.0	5.8	3.8	11.8	5.5	5.1	5.3	0.0	5.2	6.9	8.7	6.4
UPPER MALAD	2029	ROR	6.8	7.0	7.1	7.2	7.5	7.1	7.0	7.0	7.2	6.7	6.8	6.8	7.0
UPPER SALMON 1&2	2029	ROR	12.6	13.1	11.8	11.7	15.1	12.1	10.6	11.5	12.7	14.0	12.8	12.9	12.6
UPPER SALMON 3&4	2029	ROR	12.0	12.4	11.3	11.2	14.1	11.6	10.2	11.0	12.1	13.2	12.2	12.2	12.0
<b>HCC TOTAL</b>			<b>571.7</b>	<b>445.0</b>	<b>458.8</b>	<b>460.5</b>	<b>583.3</b>	<b>456.1</b>	<b>422.9</b>	<b>323.4</b>	<b>367.8</b>	<b>314.8</b>	<b>366.9</b>	<b>422.1</b>	<b>432.9</b>
<b>ROR TOTAL</b>			<b>196.6</b>	<b>198.7</b>	<b>184.2</b>	<b>207.2</b>	<b>279.0</b>	<b>237.2</b>	<b>205.6</b>	<b>209.8</b>	<b>199.0</b>	<b>200.8</b>	<b>188.1</b>	<b>193.4</b>	<b>208.4</b>
<b>TOTAL</b>			<b>768.3</b>	<b>643.7</b>	<b>643.0</b>	<b>667.7</b>	<b>862.3</b>	<b>693.3</b>	<b>628.5</b>	<b>533.2</b>	<b>566.8</b>	<b>515.6</b>	<b>555.0</b>	<b>615.5</b>	<b>641.3</b>

# OREGON ORDER UM 1056 PLANNING CRITERIA

ORDER NO. 07-047

ENTERED 02/09/07

## BEFORE THE PUBLIC UTILITY COMMISSION OF OREGON

UM 1056

In the Matter of	)	
	)	
PUBLIC UTILITY COMMISSION OF	)	ERRATA ORDER
OREGON	)	
	)	
Investigation Into Integrated Resource	)	
Planning.	)	

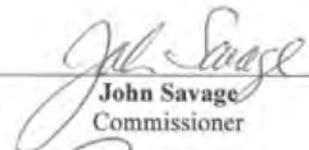
DISPOSITION: APPENDIX TO ORDER NO. 07-002 CORRECTED

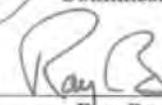
In Order No. 07-002, we adopted guidelines to govern the Integrated Resource Planning (IRP) process. In setting forth those guidelines in an appendix, we inadvertently omitted Guideline 1(d), which we discussed and adopted in the body of the order on pages 7 and 8. Accordingly, Appendix A to Order No. 07-002 is replaced with the attached appendix to this order, which includes all the adopted guidelines. The remainder of the order is unchanged.

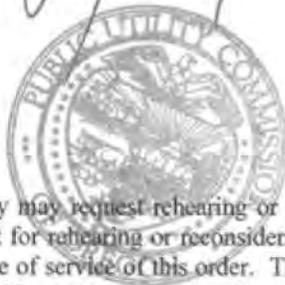
IT IS SO ORDERED.

Made, entered, and effective FEB 09 2007

  
 \_\_\_\_\_  
**Lee Beyer**  
 Chairman

  
 \_\_\_\_\_  
**John Savage**  
 Commissioner

  
 \_\_\_\_\_  
**Ray Baum**  
 Commissioner



A party may request rehearing or reconsideration of this order pursuant to ORS 756.561. A request for rehearing or reconsideration must be filed with the Commission within 60 days of the date of service of this order. The request must comply with the requirements in OAR 860-014-0095. A copy of any such request must also be served on each party to the proceeding as provided by OAR 860-013-0070(2). A party may appeal this order by filing a petition for review with the Court of Appeals in compliance with ORS 183.480-183.484.

ORDER NO. 07-047

**Adopted IRP Guidelines****Guideline 1: Substantive Requirements**

- a. *All resources must be evaluated on a consistent and comparable basis.*
- All known resources for meeting the utility's load should be considered, including supply-side options which focus on the generation, purchase and transmission of power – or gas purchases, transportation, and storage – and demand-side options which focus on conservation and demand response.*
  - Utilities should compare different resource fuel types, technologies, lead times, in-service dates, durations and locations in portfolio risk modeling.*
  - Consistent assumptions and methods should be used for evaluation of all resources.*
  - The after-tax marginal weighted-average cost of capital (WACC) should be used to discount all future resource costs.*
- b. *Risk and uncertainty must be considered.*
- At a minimum, utilities should address the following sources of risk and uncertainty:*
    1. *Electric utilities: load requirements, hydroelectric generation, plant forced outages, fuel prices, electricity prices, and costs to comply with any regulation of greenhouse gas emissions.*
    2. *Natural gas utilities: demand (peak, swing and base-load), commodity supply and price, transportation availability and price, and costs to comply with any regulation of greenhouse gas emissions.*
  - Utilities should identify in their plans any additional sources of risk and uncertainty.*
- c. *The primary goal must be the selection of a portfolio of resources with the best combination of expected costs and*

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*associated risks and uncertainties for the utility and its customers.<sup>1</sup>*

- The planning horizon for analyzing resource choices should be at least 20 years and account for end effects. Utilities should consider all costs with a reasonable likelihood of being included in rates over the long term, which extends beyond the planning horizon and the life of the resource.*
- Utilities should use present value of revenue requirement (PVRR) as the key cost metric. The plan should include analysis of current and estimated future costs for all long-lived resources such as power plants, gas storage facilities, and pipelines, as well as all short-lived resources such as gas supply and short-term power purchases.*
- To address risk, the plan should include, at a minimum:*
  - 1. Two measures of PVRR risk: one that measures the variability of costs and one that measures the severity of bad outcomes.*
  - 2. Discussion of the proposed use and impact on costs and risks of physical and financial hedging.*
- The utility should explain in its plan how its resource choices appropriately balance cost and risk.*
- d. The plan must be consistent with the long-run public interest as expressed in Oregon and federal energy policies.*

**Guideline 2: Procedural Requirements.**

- a. The public, which includes other utilities, should be allowed significant involvement in the preparation of the IRP. Involvement includes opportunities to contribute information and ideas, as well as to receive information. Parties must have an opportunity to make relevant inquiries of the utility formulating the plan. Disputes about whether information requests are relevant or unreasonably burdensome, or whether a utility is being properly responsive, may be submitted to the Commission for resolution.*

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<sup>1</sup> We sometimes refer to this portfolio as the “best cost/risk portfolio.”

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- b. *While confidential information must be protected, the utility should make public, in its plan, any non-confidential information that is relevant to its resource evaluation and action plan. Confidential information may be protected through use of a protective order, through aggregation or shielding of data, or through any other mechanism approved by the Commission.*
- c. *The utility must provide a draft IRP for public review and comment prior to filing a final plan with the Commission.*

**Guideline 3: Plan Filing, Review, and Updates.**

- a. *A utility must file an IRP within two years of its previous IRP acknowledgment order. If the utility does not intend to take any significant resource action for at least two years after its next IRP is due, the utility may request an extension of its filing date from the Commission.*
- b. *The utility must present the results of its filed plan to the Commission at a public meeting prior to the deadline for written public comment.*
- c. *Commission staff and parties should complete their comments and recommendations within six months of IRP filing.*
- d. *The Commission will consider comments and recommendations on a utility's plan at a public meeting before issuing an order on acknowledgment. The Commission may provide the utility an opportunity to revise the plan before issuing an acknowledgment order.*
- e. *The Commission may provide direction to a utility regarding any additional analyses or actions that the utility should undertake in its next IRP.*
- f. *Each utility must submit an annual update on its most recently acknowledged plan. The update is due on or before the acknowledgment order anniversary date. Once a utility anticipates a significant deviation from its acknowledged IRP, it must file an update with the Commission, unless the utility is within six months of filing its next IRP. The utility must summarize the update at a Commission public meeting. The utility may request acknowledgment of changes in proposed actions identified in an update.*

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- g. *Unless the utility requests acknowledgement of changes in proposed actions, the annual update is an informational filing that:*
- Describes what actions the utility has taken to implement the plan;*
  - Provides an assessment of what has changed since the acknowledgment order that affects the action plan, including changes in such factors as load, expiration of resource contracts, supply-side and demand-side resource acquisitions, resource costs, and transmission availability; and*
  - Justifies any deviations from the acknowledged action plan.*

**Guideline 4: Plan Components.**

*At a minimum, the plan must include the following elements:*

- a. *An explanation of how the utility met each of the substantive and procedural requirements;*
- b. *Analysis of high and low load growth scenarios in addition to stochastic load risk analysis with an explanation of major assumptions;*
- c. *For electric utilities, a determination of the levels of peaking capacity and energy capability expected for each year of the plan, given existing resources; identification of capacity and energy needed to bridge the gap between expected loads and resources; modeling of all existing transmission rights, as well as future transmission additions associated with the resource portfolios tested;*
- d. *For natural gas utilities, a determination of the peaking, swing and base-load gas supply and associated transportation and storage expected for each year of the plan, given existing resources; and identification of gas supplies (peak, swing and base-load), transportation and storage needed to bridge the gap between expected loads and resources;*
- e. *Identification and estimated costs of all supply-side and demand-side resource options, taking into account anticipated advances in technology;*

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- f. Analysis of measures the utility intends to take to provide reliable service, including cost-risk tradeoffs;*
- g. Identification of key assumptions about the future( e.g., fuel prices and environmental compliance costs) and alternative scenarios considered;*
- h. Construction of a representative set of resource portfolios to test various operating characteristics, resource types, fuels and sources, technologies, lead times, in-service dates, durations and general locations – system-wide or delivered to a specific portion of the system;*
- i. Evaluation of the performance of the candidate portfolios over the range of identified risks and uncertainties;*
- j. Results of testing and rank ordering of the portfolios by cost and risk metric, and interpretation of those results;*
- k. Analysis of the uncertainties associated with each portfolio evaluated;*
- l. Selection of a portfolio that represents the best combination of cost and risk for the utility and its customers;*
- m. Identification and explanation of any inconsistencies of the selected portfolio with any state and federal energy policies that may affect a utility's plan and any barriers to implementation; and*
- n. An action plan with resource activities the utility intends to undertake over the next two to four years to acquire the identified resources, regardless of whether the activity was acknowledged in a previous IRP, with the key attributes of each resource specified as in portfolio testing.*

**Guideline 5: Transmission.**

*Portfolio analysis should include costs to the utility for the fuel transportation and electric transmission required for each resource being considered. In addition, utilities should consider fuel transportation and electric transmission facilities as resource options, taking into account their value for making additional purchases and sales, accessing less costly resources in remote*

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*locations, acquiring alternative fuel supplies, and improving reliability.*

**Guideline 6: Conservation.**

- a. *Each utility should ensure that a conservation potential study is conducted periodically for its entire service territory.*
- b. *To the extent that a utility controls the level of funding for conservation programs in its service territory, the utility should include in its action plan all best cost/risk portfolio conservation resources for meeting projected resource needs, specifying annual savings targets.*
- c. *To the extent that an outside party administers conservation programs in a utility's service territory at a level of funding that is beyond the utility's control, the utility should:*
  - Determine the amount of conservation resources in the best cost/risk portfolio without regard to any limits on funding of conservation programs; and*
  - Identify the preferred portfolio and action plan consistent with the outside party's projection of conservation acquisition.*

**Guideline 7: Demand Response.**

*Plans should evaluate demand response resources, including voluntary rate programs, on par with other options for meeting energy, capacity, and transmission needs (for electric utilities) or gas supply and transportation needs (for natural gas utilities).*

**Guideline 8: Environmental Costs.**

*Utilities should include, in their base-case analyses, the regulatory compliance costs they expect for carbon dioxide (CO<sub>2</sub>), nitrogen oxides, sulfur oxides, and mercury emissions. Utilities should analyze the range of potential CO<sub>2</sub> regulatory costs in Order No. 93-695, from zero to \$40 (1990\$). In addition, utilities should perform sensitivity analysis on a range of reasonably possible cost adders for nitrogen oxides, sulfur oxides, and mercury, if applicable.*

**Guideline 9: Direct Access Loads.**

*An electric utility's load-resource balance should exclude customer loads that are effectively committed to service by an alternative electricity supplier.*

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**Guideline 10: Multi-state Utilities.**

*Multi-state utilities should plan their generation and transmission systems, or gas supply and delivery, on an integrated-system basis that achieves a best cost/risk portfolio for all their retail customers.*

**Guideline 11: Reliability.**

*Electric utilities should analyze reliability within the risk modeling of the actual portfolios being considered. Loss of load probability, expected planning reserve margin, and expected and worst-case unserved energy should be determined by year for top-performing portfolios. Natural gas utilities should analyze, on an integrated basis, gas supply, transportation, and storage, along with demand-side resources, to reliably meet peak, swing, and base-load system requirements. Electric and natural gas utility plans should demonstrate that the utility's chosen portfolio achieves its stated reliability, cost and risk objectives.*

**Guideline 12: Distributed Generation.**

*Electric utilities should evaluate distributed generation technologies on par with other supply-side resources and should consider, and quantify where possible, the additional benefits of distributed generation.*

**Guideline 13: Resource Acquisition.**

*a. An electric utility should, in its IRP:*

- Identify its proposed acquisition strategy for each resource in its action plan.*
- Assess the advantages and disadvantages of owning a resource instead of purchasing power from another party.*
- Identify any Benchmark Resources it plans to consider in competitive bidding.*

*b. Natural gas utilities should either describe in the IRP their bidding practices for gas supply and transportation, or provide a description of those practices following IRP acknowledgment.*

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## SUMMARY OF NORTHWEST UTILITY PLANNING CRITERIA

Utility	Planning Criteria
<b>Avista Corporation</b>	<p><i>Peak Load</i>—The maximum one-hour obligation, including operating reserves, on the expected average coldest day in January and the average hottest day in August.<sup>1</sup></p> <p><i>Peak Resource Capability</i>—The maximum one-hour generation capability of company resources, including net contract contribution, at the time of the one-hour system peak, and excluding resources that are on maintenance during peak load periods.<sup>1</sup></p> <p><i>Planning Reserve</i>—Set at a level equal to 15 percent planning reserve margin during the company's peak load hour.<sup>1</sup></p> <p><i>Confidence Interval</i>—Ninety percent confidence interval based on the monthly variability of load and the 10th percentile of monthly historical hydro energy. This results in a 10 percent chance of load exceeding the planning criteria for each month. In other words, there is a 10 percent chance that the company would need to purchase energy from the market in any given month.<sup>1</sup></p>
<b>Bonneville Power Administration</b>	<p><i>Load Forecast</i>—Based upon normal weather conditions.<sup>2</sup></p> <p><i>Hydro Conditions</i>—Firm hydro energy and capacity estimates based on 1937 critical water conditions.<sup>2</sup></p> <p><i>Hydro Energy</i>—Based on current generation capability under average monthly river discharge. Uses operating year (OY) 1937 water conditions (the 12-month period from August 1936 through July 1937) to estimate the firm hydro energy capability in low water conditions.<sup>2</sup></p> <p><i>Federal Firm Energy Surplus Analysis</i>—Defined as the amount of generation that can be produced in excess of firm loads using 1937 critical water conditions.<sup>2</sup></p> <p><i>Hydroelectric Capacity</i>—The monthly instantaneous capacity of hydroelectric projects is defined as the full-gate-flow maximum generation at mid-month reservoir elevation using 1929 through 1998 historical water conditions.<sup>2</sup></p>
<b>Idaho Power Company</b>	<p><i>Hydro Conditions</i>—70th percentile hydro conditions based upon historical data from 1928 through 2005.<sup>3</sup></p> <p><i>Load Forecast</i>—Based upon 50th percentile weather conditions.<sup>3</sup></p> <p><i>Monthly Average Energy</i>—Based on 70th percentile water and 70th percentile average load conditions.<sup>3</sup></p> <p><i>Capacity</i>—Based on monthly peak-hour Northwest transmission deficit assuming 90<sup>th</sup> percentile water, 70th percentile average load and 95th percentile peak-hour load conditions.<sup>3</sup></p>
<b>Northwest Power and Conservation Council</b>	<p><i>Utilizes a fully probabilistic model</i>—Prospective plans are tested against 20 years of future conditions. The test process uses random simulations of the principal sources of uncertainty, including hydro conditions, regional electric loads, fuel prices, CO<sub>2</sub> control requirements, import and export markets, resource availability, and other factors. The Council's analytical process creates a two-dimensional mathematical surface defined by portfolio cost and portfolio risk. A subset of resource portfolios along the mathematical cost–risk frontier are selected for further consideration. The preferred portfolio is selected from the set of finalist portfolios using qualitative criteria.<sup>4</sup></p>

<sup>1</sup> 2009 Integrated Resource Plan, Avista Utilities, August 2009, Chapter 2.

<sup>2</sup> 2009 Pacific Northwest Loads and Resources Study, Bonneville Power Administration, July 2009, Sections 2 & 4.

<sup>3</sup> 2009 Integrated Resource Plan, Idaho Power Company, December 2009.

<sup>4</sup> Draft Sixth Northwest Power Plan, Northwest Power and Conservation Council, September 2009.

Utility	Planning Criteria
<b>PacifiCorp</b>	<p><i>Thermal</i>—Maximum dependable capacity for peak-hour assessment. Energy assessments used maximum dependable capacity de-rated for forced outages and maintenance.<sup>5</sup></p> <p><i>Hydro Conditions</i>—Critical water conditions. For peak hour assessment, decision support software is used to shape critical hydro energy to estimate maximum capability sustainable for one hour.<sup>5</sup></p> <p><i>Loads</i>—Average energy requirements based upon normal weather conditions.<sup>5</sup></p> <p><i>Planning Reserve</i>—Planning reserve margin of 12 percent assumed for energy and peak-hour assessments.<sup>5</sup></p>
<b>Portland General Electric Company (PGE)</b>	<p><i>Hydro Conditions</i>—Normal hydro conditions.<sup>6</sup></p> <p><i>Loads</i>—PGE identifies annual energy needs under a reference case (i.e., expected or most likely) and high-load and low-load forecasts, assuming normal weather conditions.<sup>6</sup></p> <p><i>Capacity</i>—PGE evaluates peaking needs by comparing the annual one-hour maximum load inclusive of 12 percent reserves (6 percent operating margin, 6 percent planning margin), calculated on a 1-in-2 or average basis, to the capability of energy-producing resources. Reports both the winter and the summer peak loads.<sup>6</sup></p>
<b>Puget Sound Energy</b>	<p><i>Loads</i>—For capacity, power demand was estimated at normal winter minimum temperature (23° F) plus a 15 percent planning margin. Five different economic growth scenarios were modeled in the resource plan.<sup>7</sup></p> <p><i>Hydro</i>—For capacity resource need, hydro projects assumed at full capacity output.<sup>7</sup></p> <p><i>Thermal</i>—For capacity resource need, thermal projects assumed at full capacity output.<sup>7</sup></p>

<sup>5</sup> 2008 Integrated Resource Plan, PacifiCorp, May 28, 2009, Chapter 5.

<sup>6</sup> PGE 2009 Integrated Resource Plan, Portland General Electric, November 2009, Chapter 3.

<sup>7</sup> Integrated Resource Plan, Puget Sound Energy, July 2009, Chapters 5 & 8.

## IRP ADVISORY COUNCIL ROSTER

### Customer Representatives

AARP.....	Maribeth Connell
Agricultural Representative .....	Sid Erwin
Boise State University.....	John Gardner/Todd Haynes
Heinz Frozen Foods .....	Steve Munn
Idaho Retailers .....	Pam Eaton
Industrial Customers of Idaho Power .....	David Hawk
INL.....	Tom Moriarty
Micron.....	John Velikoff
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Idaho Conservation League .....	Betsy Bridge
Idaho Department of Commerce.....	Don Dietrich/Lane Packwood
Idaho Office of Energy Resources.....	Paul Kjellander
Idaho State House of Representatives.....	Representative Fred Wood
Idaho State Senate.....	Senator Russ Fulcher
Northwest Power and Conservation Council.	Jim Yost/Shirley Lindstrom
Snake River Alliance .....	Ken Miller
Twin Falls Canal Company .....	Vince Alberdi, Retired General Manager

### Regulatory Commission Representatives

Idaho PUC.....	Rick Sterling
Oregon PUC.....	Kelcey Brown

### Consultant/Facilitator

The Cadmus Group, Inc. ....	Brian Hedman
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