Resource Options Overview

January 13, 2009

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Pacific Power | Rocky Mountain Power | PacifiCorp Energy

Agenda

- Load and Resource Balance – Greg Duvall
- Load duration curve – Greg Duvall
- Capacity position /Transmission bubbles – John Apperson
- Resource Options — Stacey Kusters / Bruce Griswold

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Load and Resource - Business Plan

Business Plan v5 Base Portfolio L&R Balance without Reso

Target Planning Reserve Margin Applied to Individual Load Areas = 12

Calendar Year	2007 IRP Update 2007	2007 IRP Update 2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
East															
Thermal	6,125	5,932	5,983	5,998	6,025	6,662	6,662	6,674	6,675	6,683	6,684	6,459	6,460	6,462	6,162
Hydro	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135
DSM	153	163	345	395	435	465	475	485	495	505	515	525	525	525	525
Renewable	65	109	157	157	157	157	157	157	154	154	154	154	154	154	152
Purchase	904	704	751	546	541	341	341	341	341	320	320	320	320	320	295
QF	106	106	151	151	151	151	151	151	151	151	151	151	151	151	151
Interruptible	212	212	237	237	237	237	237	237	237	237	237	237	237	237	237
Transfers	428	551	876	952	602	235	263	465	230	230	393	589	589	589	289
East Existing Resources	8,128	7,912	8,636	8,572	8,284	8,384	8,422	8,645	8,418	8,415	8,589	8,571	8,572	8,573	7,946
Load	6,321	6,547	6,757	6,949	7,150	7,404	7,643	7,779	8,029	8,303	8,491	8,696	8,851	8,908	9,065
Sale	849	836	781	768	758	747	745	745	745	745	659	659	659	659	179
East Obligation	7,170	7,383	7,538	7,717	7,908	8,151	8,388	8,524	8,774	9,048	9,150	9,355	9,510	9,567	9,244
Planning reserves	708	756	745	785	803	853	880	895	924	958	969	993	1,011	1,018	982
Non-owned reserves	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
East Reserves	779	827	815	855	874	923	951	966	995	1,029	1,040	1,063	1,082	1,089	1,053
East Obligation + Reserves	7,949	8,210	8,352	8,572	8,781	9,074	9,339	9,490	9,769	10,077	10,190	10,418	10,592	10,656	10,297
East Position	175	(298)	284	1	(498)	(690)	(917)	(845)	(1,350)	(1,662)	(1,601)	(1,848)	(2,020)	(2,082)	(2,351)
East Reserve Margin	14.5%	8.0%	15.8%	12.0%	5.7%	3.5%	1.1%	2.1%	(3.4%)	(6.4%)	(5.5%)	(7.7%)	(9.2%)	(9.8%)	(13.4%)
West															
Thermal	2,046	2,046	2,550	2,559	2,568	2,579	2,591	2,591	2,591	2,591	2,577	2,577	2,577	2,577	2,577
Hydro	1,421	1,421	1,315	1,218	1,216	980	1,009	1,046	1,157	1,150	1,149	1,146	1,099	1,103	879
DSM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Renewable	118	118	90	96	96	90	90	90	90	90	90	90	90	90	90
Purchase	786	800	1,310	1,203	753	115	144	111	111	111	111	139	129	129	129
QF	40	40	120	120	120	120	120	120	120	120	120	120	120	120	120
Transfers	(434)	(558)	(878)	(953)	(603)	(235)	(264)	(465)	(229)	(229)	(392)	(588)	(588)	(588)	(288)
West Existing Resources	3,978	3,867	4,507	4,242	4,150	3,649	3,691	3,492	3,840	3,833	3,654	3,483	3,427	3,430	3,506
Load	2,922	3,228	3,393	3,422	3,490	3,587	3,638	3,722	3,769	3,824	3,893	3,978	3,987	4,069	4,118
Sale	299	299	499	490	290	258	258	258	158	108	108	108	108	108	103
West Obligation	3,221	3,527	3,892	3,912	3,780	3,845	3,896	3,980	3,927	3,932	4,001	4,086	4,095	4,177	4,221
Planning reserves	292	327	310	325	363	448	450	464	458	459	467	474	476	486	491
Non-owned reserves	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
West Reserves	299	334	316	332	370	454	457	471	464	465	473	480	482	492	498
West Obligation + Reserves	3,520	3,861	4,208	4,243	4,149	4,299	4,353	4,451	4,391	4,397	4,474	4,566	4,577	4,669	4,719
West Position	458	6	299	(1)	0	(650)	(662)	(958)	(551)	(564)	(820)	(1,082)	(1,151)	(1,239)	(1,213)
West Reserve Margin	26.2%	12.2%	19.7%	12.0%	12.0%	(4.9%)	(5.0%)	(12.1%)	(2.0%)	(2.4%)	(8.5%)	(14.5%)	(16.1%)	(17.7%)	(16.7%)
System															
Total Resources	12,105	11,779	13,143	12,815	12,433	12,033	12,112	12,137	12,258	12,248	12,243	12,054	11,999	12,003	11,452
Obligation	10,391	10,910	11,430	11,628	11,687	11,996	12,284	12,504	12,701	12,980	13,151	13,441	13,605	13,744	13,465
Reserves	1,077	1,161	1,131	1,187	1,243	1,377	1,407	1,437	1,459	1,494	1,513	1,543	1,564	1,581	1,550
Obligation + Reserves	11,468	12,071	12,561	12,815	12,931	13,373	13,692	13,940	14,160	14,474	14,664	14,984	15,169	15,325	15,016
System Position	637	(292)	583	(0)	(498)	(1,340)	(1,579)	(1,803)	(1,902)	(2,226)	(2,421)	(2,930)	(3,170)	(3,322)	(3,563)
Reserve Margin	18.1%	9.3%	17.1%	12.0%	7.7%	0.8%	(0.9%)	(2.4%)	(3.0%)	(5.1%)	(6.4%)	(9.8%)	(11.3%)	(12.2%)	(14.5%)

Note -

- This includes Chehalis, Lake side 2 and Turbine Upgrades (Thermal / Hydro).
- 2007 IRP Update L&R data has different assumptions concerning DSM and Load and are not comparible.
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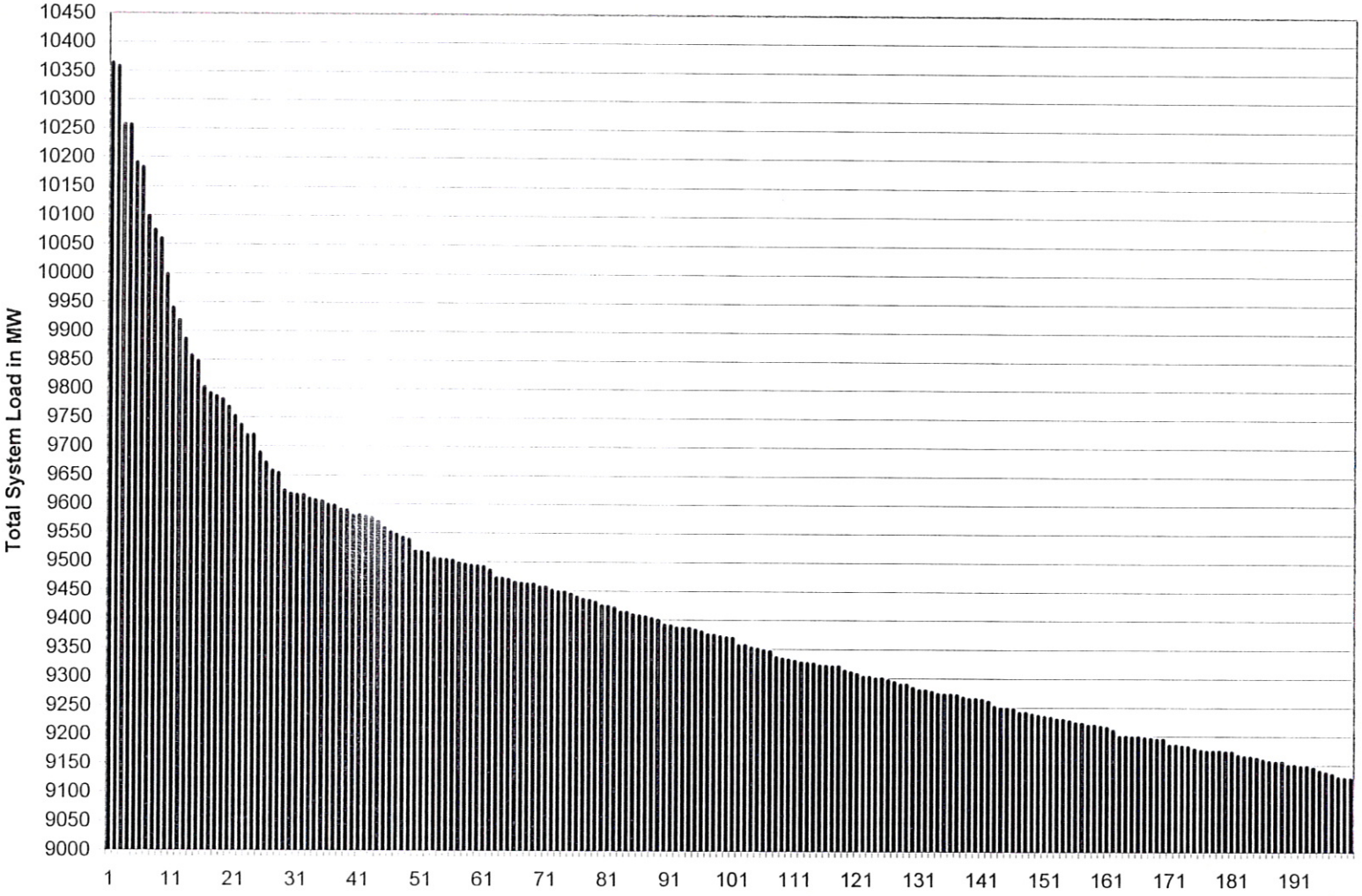
PacifiCorp's 2012 Load Duration Curve



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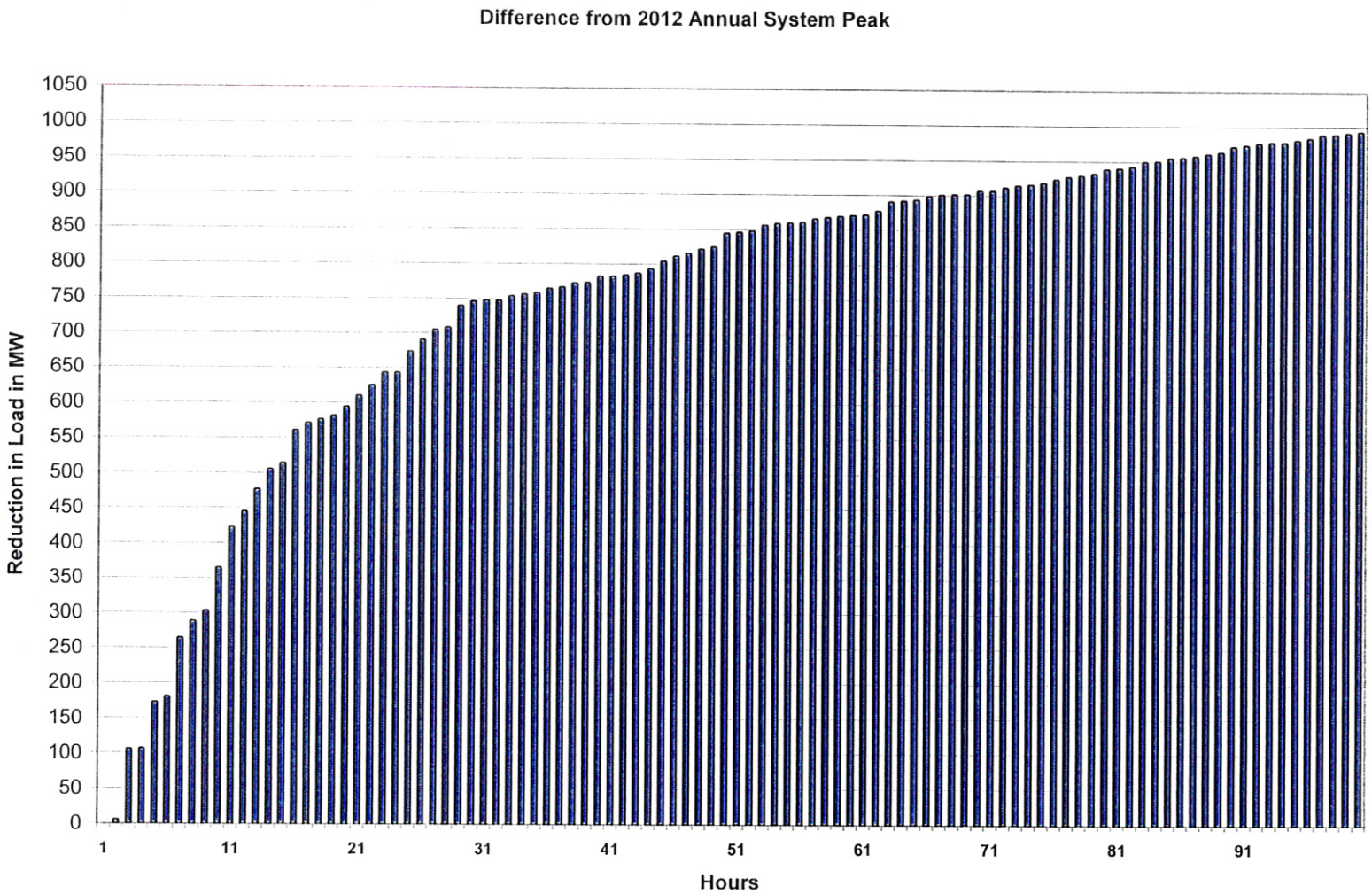
Difference from 2012 Annual System Peak,



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Reductions from 2012 System Peak

2012 Annual System Peak in MW	Date	Hour
10,365	7/16/2012	16

Reductions from Peaks	# of Hours	Date	Hour Starting
100 MW	1	7/16/2012	16
	1	7/16/2012	15
	1	7/16/2012	14
	1	7/16/2012	17
200 MW	1	8/23/2012	16
	1	8/23/2012	15
250 MW	1	8/23/2012	17
	1	7/16/2012	13
300 MW	1	8/23/2012	14
350 MW	1	7/16/2012	18
400 MW	1	7/19/2012	16
	1	7/19/2012	15
450 MW	1	7/16/2012	12
500 MW	1	8/23/2012	13
	1	7/19/2012	17
550 MW	1	7/19/2012	14

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Reductions from 2012 System Peak

To Reduce 200 MW	
Date	Hours
7/16/2012	14-17
8/23/2012	15-16

To Reduce 250 MW	
Date	Hours
7/16/2012	13-17
8/23/2012	15-17

To Reduce 300 MW	
Date	Hours
7/16/2012	13-17
8/23/2012	14-17

To Reduce 350 MW	
Date	Hours
7/16/2012	13-18
8/23/2012	14-17

To Reduce 400 MW	
Date	Hours
7/16/2012	13-18
8/23/2012	14-17
7/19/2012	15-16

To Reduce 450 MW	
Date	Hours
7/16/2012	12-18
8/23/2012	14-17
7/19/2012	15-16

To Reduce 500 MW	
Date	Hours
7/16/2012	12-18
8/23/2012	13-17
7/19/2012	15-17

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Capacity position – January 9, 2009

2011	Jun-11 KWI CPR Notional Physical		Jul-11 KWI CPR Notional Physical		Aug-11 KWI CPR Notional Physical		Sep-11 KWI CPR Notional Physical		2011 Summer Season Capacity
	SuperPk	Sun On	SuperPk	Sun On	SuperPk	Sun On	SuperPk	Sun On	
TOTAL	1781	1602	471	432	265	279	393	1404	164
WEST	1114	798	85	288	0	138	297	441	621
MID-C	870	531	0	0	0	0	55	153	333
WALLA	0	0	0	0	0	0	0	0	0
YAKIMA	0	0	0	0	0	0	0	0	0
UT NORTH	223	326	0	0	0	0	0	240	0
UT SOUTH	0	0	0	0	0	0	0	0	0
4C	358	33	306	54	185	52	11	625	(513)
PV	125	475	125	125	125	125	125	125	125
WYONW	(39)	(30)	(45)	(35)	(45)	(36)	(40)	(27)	(69)
WYOSW	0	0	0	0	0	0	0	0	0
UTAH RIC	845	1007	515	1018	703	1020	817	1026	50
UTAH IPIC	216	433	216	433	216	433	398	433	165

2012	Jun-12 KWI CPR Notional Physical		Jul-12 KWI CPR Notional Physical		Aug-12 KWI CPR Notional Physical		Sep-12 KWI CPR Notional Physical		2012 Summer Season Capacity
	SuperPk	Sun On	SuperPk	Sun On	SuperPk	Sun On	SuperPk	Sun On	
TOTAL	455	1625	(641)	440	(581)	184	214	1394	(960)
WEST	0	819	(724)	288	(682)	75	109	341	(172)
MID-C	0	552	(532)	0	(543)	0	0	53	(172)
WALLA	0	0	0	0	0	0	0	0	0
YAKIMA	0	0	0	0	0	0	0	0	0
UT NORTH	0	285	0	0	0	0	0	242	(250)
UT SOUTH	0	0	0	0	0	0	0	0	0
4C	348	55	(17)	41	0	0	0	695	(614)
PV	150	500	150	150	150	150	150	150	150
WYONW	(43)	(34)	(50)	(39)	(49)	(41)	(45)	(34)	(74)
WYOSW	0	0	0	0	0	0	0	0	0
UTAH RIC	692	1072	495	1017	628	993	842	1072	0
UTAH IPIC	405	433	405	433	405	433	398	433	303

2013	Jun-13 KWI CPR Notional Physical		Jul-13 KWI CPR Notional Physical		Aug-13 KWI CPR Notional Physical		Sep-13 KWI CPR Notional Physical		2013 Summer Season Capacity
	SuperPk	Sun On	SuperPk	Sun On	SuperPk	Sun On	SuperPk	Sun On	
TOTAL	173	1356	(1059)	105	(873)	(46)	112	1166	(1624)
WEST	0	812	(759)	42	(790)	0	17	357	(202)
MID-C	0	545	(543)	0	(571)	0	0	69	(202)
WALLA	0	0	0	0	0	0	0	0	0
YAKIMA	0	0	0	0	0	0	0	0	0
UT NORTH	0	64	0	0	0	0	0	132	(931)
UT SOUTH	0	0	0	0	0	0	0	0	0
4C	77	59	(390)	0	(173)	(109)	0	604	(557)
PV	0	350	0	0	0	0	0	0	0
WYONW	(49)	(41)	(55)	(49)	(55)	(49)	(50)	(39)	(79)
WYOSW	0	0	0	0	0	0	0	0	0
UTAH RIC	614	1018	122	948	339	878	721	1003	50
UTAH IPIC	398	398	398	398	398	398	398	398	303

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Resource Options

Transmission	Existing Transmission	Incremental transmission	Total available in 2012/13
Mona	200MW of market purchase which expires in 2011 200MW available		
Mona Or NUB		250MW incremental import at either NUB/ Mona	450MW

Resource	MW and Product	Delivery Point	$/MWh (to be updated)
LADWP	100MW call option 2011-12 50MW Q3 product 2011-2012	Mona	$104 per MW/h $71.25 per MW/h
Market purchase at Mona or Market purchase at Nevada Utah Border	300 MW Q3 forward	Mona or NUB	$ 88.50 per MW/h at Mead December Mini RFP
West Valley	200MW	Utah	[$144] per MW/h or short term market purchase
Apex tolling purchase	245MW	NUB	$[149] per MWh/ not confirmed
Interruptible contracts	92MW	Utah	Will vary
Total potential	987MW	Utah and Nevada	

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Interruptible and large industrial customers

- Interruptible contracts – most of the customers have signed up for the company's energy exchange program with the exception of Kennecott
- Schedule to screen, complete contract and secure regulatory approval on any additional megawatts would be six to nine months.
- Potential of 92MW of additional interruptible and or large industrial customer contracts

Customer	Site load (10MW)	Existing DSM Contract	Opportunity
Simplot Phosphates	10		5
Hill AFB	46		5
Praxair	30		10
Kennecott	200		50
US Mag	120	100	100
Nucor	100	75	75
Holcim	16		5
AMPAC/West Electr	18		10
Utah Total	548	175	267
Total	715	**339**	**431**
Incremental is the existing minus the opportunity			**92**

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Lake Side

- Development Agreement
  - Prior to the Limited Notice to Proceed PacifiCorp does not make payments to either Summit or CH2M Hill
- Purchase of Development assets would need to be negotiated.
  - Pay only out of pocket costs for work that has been completed on the following
    - LGIA
    - Corp of Engineering Permit
    - Options on ERCs
    - Air permit
    - City of Vineyard construction permit
- Schedule
  - Air permit will dictate timeline however, prior permits have required that contraction must start within 18 months of the Air permit.

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