Western Area Power Administration
Sierra Nevada Region

Starting Forecast Month: **March 2009**

Twelve-Month Forecast of CVP Generation and Base Resource

March 2009 Through February 2010

Values at Load Center (Tracy Substation)

Exceedence Level: **90% (Dry)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource			Add'l CVP Capacity w/minimal Energy
	CVP Maximum Capability (MW)	CVP Energy Generation (GWh)	Peak Project Use Demand (MW)	Project Use (PU) Load Energy (GWh)	First Pref. (FP) Peak Demand (MW)	First Pref. (FP) Load Energy (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	PU & FP Energy Purchase Reqmts. (GWh)	CVP Corp Bank Energy for PU and FP (GWh)	Bank Return Energy to CVP Corp (GWh)	Ancilliary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)	
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Mar-2009	995	130.0	30.0	20.0	23.6	13.3	193.0	14.4	0.0	0.0	0.0	0.0	0.0	748.4	111.1	19.9	0
Apr-2009	925	230.0	70.0	45.0	21.6	12.5	193.0	0.0	0.0	0.0	0.0	0.0	0.0	640.4	172.5	37.4	0
May-2009	1,290	310.0	60.0	40.0	22.1	13.3	193.0	0.0	0.0	0.0	0.0	0.0	0.0	1,014.9	256.7	34.0	0
Jun-2009	1,340	340.0	45.0	30.0	26.7	13.3	193.0	0.0	0.0	0.0	0.0	0.0	0.0	1,075.3	296.7	38.3	0
Jul-2009	1,335	350.0	55.0	35.0	29.8	15.3	193.0	0.0	0.0	0.0	0.0	0.0	0.0	1,057.2	299.7	38.1	0
Aug-2009	1,070	290.0	45.0	30.0	25.7	13.9	193.0	0.0	0.0	0.0	0.0	0.0	0.0	806.3	246.1	41.0	0
Sep-2009	950	170.0	35.0	20.0	25.2	13.1	193.0	0.0	0.0	0.0	0.0	0.0	0.0	696.8	136.9	27.3	0
Oct-2009	895	130.0	75.0	50.0	22.2	12.8	193.0	15.6	0.0	0.0	0.0	0.0	0.0	604.8	82.8	18.4	0
Nov-2009	905	110.0	60.0	40.0	23.2	13.6	193.0	16.8	0.0	0.0	0.0	0.0	0.0	628.8	73.2	16.2	0
Dec-2009	925	110.0	100.0	95.0	25.2	15.2	193.0	16.4	0.0	0.0	0.0	0.0	0.0	606.8	16.2	3.6	0
Jan-2010	1,030	120.0	60.0	55.0	28.8	16.8	193.0	16.8	0.0	0.0	0.0	0.0	0.0	748.2	65.0	11.7	0
Feb-2010	1,015	120.0	105.0	90.0	25.2	13.2	193.0	14.0	0.0	0.0	0.0	0.0	0.0	691.8	30.8	6.6	0
Total		2,410.0		550.0		166.3		94.0		0.0	0.0	0.0			1,787.7		

Exceedence Level **50% (Average)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource			Add'l CVP Capacity w/minimal Energy
	Maximum CVP Capacity (MW)	CVP Energy Generation (GWh)	Peak Project Use Demand (MW)	Project Use (PU) Load Energy (GWh)	First Pref. (FP) Peak Demand (MW)	First Pref. (FP) Load Energy (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	PU & FP Energy Purchase Reqmts. (GWh)	CVP Corp Bank Energy for PU and FP (GWh)	Bank Return Energy to CVP Corp (GWh)	Ancilliary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)	
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Mar-2009	945.0	130.0	80.0	70.0	23.6	13.3	193.0	14.4	0.0	0.0	0.0	0.0	0.0	648.4	61.1	12.7	0
Apr-2009	1,100.0	250.0	65.0	40.0	21.6	12.5	193.0	0.0	0.0	0.0	0.0	0.0	0.0	820.4	197.5	33.4	0
May-2009	1,430.0	350.0	120.0	85.0	22.1	13.3	193.0	0.0	0.0	0.0	0.0	0.0	0.0	1,094.9	251.7	30.9	0
Jun-2009	1,525.0	430.0	120.0	80.0	26.7	13.3	193.0	0.0	0.0	0.0	0.0	0.0	0.0	1,185.3	336.7	39.5	0
Jul-2009	1,530.0	490.0	205.0	125.0	29.8	15.3	193.0	0.0	0.0	0.0	0.0	0.0	0.0	1,102.2	349.7	42.6	0
Aug-2009	1,235.0	390.0	195.0	120.0	25.7	13.9	193.0	0.0	0.0	0.0	0.0	0.0	0.0	821.3	256.1	41.9	0
Sep-2009	1,090.0	310.0	165.0	105.0	25.2	13.1	193.0	0.0	0.0	0.0	0.0	0.0	0.0	706.8	191.9	37.7	0
Oct-2009	1,065.0	210.0	100.0	70.0	22.2	12.8	193.0	15.6	0.0	0.0	0.0	0.0	0.0	749.8	142.8	25.6	0
Nov-2009	1,080.0	170.0	105.0	105.0	23.2	13.6	193.0	16.8	0.0	0.0	0.0	0.0	0.0	758.8	68.2	12.5	0
Dec-2009	1,110.0	130.0	165.0	155.0	25.2	15.2	193.0	16.4	0.0	0.0	-26.8	0.0	0.0	726.8	0.0	0.0	0
Jan-2010	1,260.0	140.0	195.0	180.0	28.8	16.8	193.0	16.8	0.0	0.0	-43.0	0.0	0.0	843.2	0.0	0.0	0
Feb-2010	1,035.0	110.0	80.0	55.0	25.2	13.2	193.0	14.0	0.0	0.0	0.0	0.0	0.0	736.8	55.8	11.3	0
Total		3,110.0		1,190.0		166.3		94.0		0.0	-69.8	0.0			1,911.5		

Exceedence Level **10% (Wet)** **- (Not Available)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource			Add'l CVP Capacity w/minimal Energy
	Maximum CVP Capacity (MW)	CVP Energy Generation (GWh)	Peak Project Use Demand (MW)	Project Use (PU) Load Energy (GWh)	First Pref. (FP) Peak Demand (MW)	First Pref. (FP) Load Energy (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	PU & FP Energy Purchase Reqmts. (GWh)	CVP Corp Bank Energy for PU and FP (GWh)	Return Energy to CVP Corp (GWh)	Ancilliary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)	
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Mar-2009													0.0	0.0	0.0	0.0	
Apr-2009													0.0	0.0	0.0	0.0	
May-2009													0.0	0.0	0.0	0.0	
Jun-2009													0.0	0.0	0.0	0.0	
Jul-2009													0.0	0.0	0.0	0.0	
Aug-2009													0.0	0.0	0.0	0.0	
Sep-2009													0.0	0.0	0.0	0.0	
Oct-2009													0.0	0.0	0.0	0.0	
Nov-2009													0.0	0.0	0.0	0.0	
Dec-2009													0.0	0.0	0.0	0.0	
Jan-2010													0.0	0.0	0.0	0.0	
Feb-2010													0.0	0.0	0.0	0.0	
Total		0.0		0.0		0.0		0.0		0.0	0.0	0.0			0.0		

Notes:
1. For the AS (Column G), it was assumed that Western's total operating reserve obligation to be equal to the sum of spinning reserve of 137 MW and regulation of 60 MW.
2. Column Q denotes capacity at CVP plants with minimal energy, which is potentially useful for reserves but has been deemed unschedulable for Base Resource purposes.
3. CVP generation and Project Use data for 50% and 90% Exceedence Levels are based on USBR February 2009 50% and February 2009 90% Exceedence monthly water forecasts, respectively.
4. Project Use purchase column H includes total 50 MW combined purchases of LLH and 7X8 products in Q1 2009.