Western Area Power Administration
Sierra Nevada Region

Starting Forecast Month: **July 2011**

Twelve-Month Forecast of CVP Generation and Base Resource

July 2011 Through June 2012

Values at Load Center (Tracy Substation)

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

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource		
	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
Jul-2011	1,800.0	710.0	285.0	180.0	27.9	13.6	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,302.1	516.4	53.3
Aug-2011	1,735.0	600.0	260.0	160.0	26.3	12.8	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,263.7	427.2	45.4
Sep-2011	1,410.0	470.0	190.0	125.0	25.2	11.9	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,009.8	333.1	45.8
Oct-2011	915.0	370.0	150.0	120.0	21.5	11.7	185.0	6.2	0.0	0.0	0.0	0.0	0.0	558.5	244.5	58.9
Nov-2011	1,310.0	340.0	150.0	130.0	24.3	13.0	185.0	6.0	0.0	0.0	0.0	0.0	0.0	950.7	203.0	29.7
Dec-2011	1,305.0	310.0	145.0	130.0	28.1	15.0	185.0	6.2	0.0	0.0	0.0	0.0	0.0	946.9	171.2	24.3
Jan-2012	1,300.0	330.0	125.0	115.0	25.7	14.4	185.0	6.2	0.0	0.0	0.0	0.0	0.0	964.3	206.8	28.8
Feb-2012	1,315.0	380.0	140.0	120.0	25.5	13.0	185.0	5.8	0.0	0.0	0.0	0.0	0.0	964.5	252.8	37.7
Mar-2012	1,155.0	460.0	145.0	130.0	24.8	12.8	185.0	6.2	0.0	0.0	0.0	0.0	0.0	800.2	323.4	54.3
Apr-2012	1,425.0	480.0	70.0	50.0	23.5	11.7	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,146.5	418.3	50.7
May-2012	1,670.0	600.0	120.0	80.0	23.8	12.4	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,341.2	507.6	50.9
Jun-2012	1,700.0	640.0	230.0	170.0	24.1	11.4	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,260.9	458.6	50.5
Total		5,690.0		1,510.0		153.5		36.6		0.0	0.0	0.0			4,063.1	

Exceedence Level **50% (Average)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource		
	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
Jul-2011	1,800.0	710.0	285.0	180.0	27.9	13.6	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,302.1	516.4	53.3
Aug-2011	1,735.0	600.0	260.0	160.0	26.3	12.8	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,263.7	427.2	45.4
Sep-2011	1,410.0	470.0	190.0	125.0	25.2	11.9	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,009.8	333.1	45.8
Oct-2011	915.0	370.0	150.0	120.0	21.5	11.7	185.0	6.2	0.0	0.0	0.0	0.0	0.0	558.5	244.5	58.9
Nov-2011	1,310.0	340.0	150.0	130.0	24.3	13.0	185.0	6.0	0.0	0.0	0.0	0.0	0.0	950.7	203.0	29.7
Dec-2011	1,305.0	310.0	145.0	130.0	28.1	15.0	185.0	6.2	0.0	0.0	0.0	0.0	0.0	946.9	171.2	24.3
Jan-2012	1,300.0	330.0	125.0	115.0	25.7	14.4	185.0	6.2	0.0	0.0	0.0	0.0	0.0	964.3	206.8	28.8
Feb-2012	1,315.0	380.0	140.0	120.0	25.5	13.0	185.0	5.8	0.0	0.0	0.0	0.0	0.0	964.5	252.8	37.7
Mar-2012	1,155.0	460.0	145.0	130.0	24.8	12.8	185.0	6.2	0.0	0.0	0.0	0.0	0.0	800.2	323.4	54.3
Apr-2012	1,425.0	480.0	70.0	50.0	23.5	11.7	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,146.5	418.3	50.7
May-2012	1,670.0	600.0	120.0	80.0	23.8	12.4	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,341.2	507.6	50.9
Jun-2012	1,700.0	640.0	230.0	170.0	24.1	11.4	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,260.9	458.6	50.5
Total		5,690.0		1,510.0		153.5		36.6		0.0	0.0	0.0			4,063.1	

Exceedence Level **10% (Wet)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource		
	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
Jul-2011	1,800.0	750.0	285.0	180.0	27.9	13.6	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,302.1	556.4	57.4
Aug-2011	1,735.0	670.0	260.0	160.0	26.3	12.8	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,263.7	497.2	52.9
Sep-2011	1,410.0	525.0	190.0	125.0	25.2	11.9	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,009.8	388.1	53.4
Oct-2011	915.0	410.0	150.0	120.0	21.5	11.7	185.0	6.2	0.0	0.0	0.0	0.0	0.0	558.5	284.5	68.5
Nov-2011	1,310.0	430.0	150.0	130.0	24.3	13.0	185.0	6.0	0.0	0.0	0.0	0.0	0.0	950.7	293.0	42.8
Dec-2011	1,305.0	390.0	145.0	130.0	28.1	15.0	185.0	6.2	0.0	0.0	0.0	0.0	0.0	946.9	251.2	35.7
Jan-2012	1,300.0	415.0	125.0	115.0	25.7	14.4	185.0	6.2	0.0	0.0	0.0	0.0	0.0	964.3	291.8	40.7
Feb-2012	1,315.0	470.0	140.0	120.0	25.5	13.0	185.0	5.8	0.0	0.0	0.0	0.0	0.0	964.5	342.8	51.1
Mar-2012	1,155.0	570.0	145.0	130.0	24.8	12.8	185.0	6.2	0.0	0.0	0.0	0.0	0.0	800.2	433.4	72.8
Apr-2012	1,425.0	600.0	70.0	50.0	23.5	11.7	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,146.5	538.3	65.2
May-2012	1,670.0	700.0	120.0	80.0	23.8	12.4	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,341.2	607.6	60.9
Jun-2012	1,725.0	710.0	230.0	170.0	24.1	11.4	185.0	0.0	0.0	0.0	0.0	0.0	0.0	1,285.9	528.6	57.1
Total		6,640.0		1,510.0		153.5		36.6		0.0	0.0	0.0			5,013.1	

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 125 MW and regulation of 60 MW.
2. CVP generation and Project Use data for 50% and 90% Exceedence Levels are based on USBR June 2011 50% and June 2011 90% Exceedence monthly water forecasts, respectively. Data based on actual precipitation as of 6/1/2011.
3. CVP generation for the 10% Exceedence Level based on USBR statistical analysis. CVP Capacity and Project Use data for 10% Exceedence Level are same as 50% Exceedence values.