Western Area Power Administration
Sierra Nevada Region

Starting Forecast Month: **August 2012**

Twelve-Month Forecast of CVP Generation and Base Resource

August 2012 Through July 2013

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
Aug-2012	1,780.0	510.0	210.0	135.0	26.6	14.8	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,361.4	360.2	35.6
Sep-2012	1,295.0	390.0	145.0	110.0	23.2	13.2	182.0	0.0	0.0	0.0	0.0	0.0	0.0	944.8	266.8	39.2
Oct-2012	1,050.0	270.0	180.0	145.0	23.8	13.8	182.0	6.2	0.0	0.0	0.0	0.0	0.0	664.2	117.4	23.8
Nov-2012	955.0	210.0	190.0	155.0	26.4	15.6	182.0	6.0	0.0	0.0	0.0	0.0	0.0	556.6	45.4	11.3
Dec-2012	1,195.0	165.0	344.0	119.0	26.6	16.0	182.0	6.2	0.0	0.0	0.0	0.0	0.0	642.4	36.2	7.6
Jan-2013	975.0	160.0	351.0	126.0	26.0	16.0	182.0	6.2	0.0	0.0	0.0	0.0	0.0	416.0	24.2	7.8
Feb-2013	1,260.0	162.0	351.0	119.0	26.7	15.0	182.0	5.6	0.0	0.0	0.0	0.0	0.0	700.3	33.6	7.1
Mar-2013	1,275.0	191.0	282.0	95.0	24.7	14.7	182.0	6.2	0.0	0.0	0.0	0.0	0.0	786.3	87.5	15.0
Apr-2013	1,402.0	312.0	147.5	52.0	23.8	13.7	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,048.7	246.3	32.6
May-2013	1,490.0	455.0	108.5	40.0	21.9	13.9	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,177.6	401.1	45.8
Jun-2013	1,548.0	525.0	162.0	78.0	23.9	12.9	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,180.1	434.1	51.1
Jul-2013	1,470.0	657.0	205.0	113.0	27.9	15.2	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,055.1	528.8	67.4
Total		4,007.0		1,287.0		174.7		36.4		0.0	0.0	0.0			2,581.7	

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
Aug-2012	1,780.0	510.0	210.0	135.0	26.6	14.8	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,361.4	360.2	35.6
Sep-2012	1,295.0	390.0	145.0	110.0	23.2	13.2	182.0	0.0	0.0	0.0	0.0	0.0	0.0	944.8	266.8	39.2
Oct-2012	1,050.0	270.0	180.0	145.0	23.8	13.8	182.0	6.2	0.0	0.0	0.0	0.0	0.0	664.2	117.4	23.8
Nov-2012	955.0	210.0	190.0	155.0	26.4	15.6	182.0	6.0	0.0	0.0	0.0	0.0	0.0	556.6	45.4	11.3
Dec-2012	1,195.0	230.0	195.0	170.0	26.6	16.0	182.0	6.2	0.0	0.0	0.0	0.0	0.0	791.4	50.2	8.5
Jan-2013	975.0	160.0	80.0	70.0	26.0	16.0	182.0	6.2	0.0	0.0	0.0	0.0	0.0	687.0	80.2	15.7
Feb-2013	1,260.0	170.0	90.0	70.0	26.7	15.0	182.0	5.6	0.0	0.0	0.0	0.0	0.0	961.3	90.6	14.0
Mar-2013	1,275.0	330.0	115.0	80.0	24.7	14.7	182.0	6.2	0.0	0.0	0.0	0.0	0.0	953.3	241.5	34.1
Apr-2013	1,475.0	420.0	50.0	35.0	23.8	13.7	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,219.2	371.3	42.3
May-2013	1,715.0	580.0	75.0	50.0	21.9	13.9	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,436.1	516.1	48.3
Jun-2013	1,860.0	700.0	145.0	95.0	23.9	12.9	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,509.1	592.1	54.5
Jul-2013	1,715.0	730.0	225.0	145.0	27.9	15.2	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,280.1	569.8	59.8
Total		4,700.0		1,260.0		174.7		36.4		0.0	0.0	0.0			3,301.7	

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
Aug-2012	1,780.0	510.0	210.0	135.0	26.6	14.8	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,361.4	360.2	35.6
Sep-2012	1,295.0	390.0	145.0	110.0	23.2	13.2	182.0	0.0	0.0	0.0	0.0	0.0	0.0	944.8	266.8	39.2
Oct-2012	1,050.0	270.0	180.0	145.0	23.8	13.8	182.0	6.2	0.0	0.0	0.0	0.0	0.0	664.2	117.4	23.8
Nov-2012	955.0	210.0	190.0	155.0	26.4	15.6	182.0	6.0	0.0	0.0	0.0	0.0	0.0	556.6	45.4	11.3
Dec-2012	1,453.0	216.0	361.0	127.0	26.6	16.0	182.0	6.2	0.0	0.0	0.0	0.0	0.0	883.4	79.2	12.1
Jan-2013	1,557.0	285.0	367.0	130.0	26.0	16.0	182.0	6.2	0.0	0.0	0.0	0.0	0.0	982.0	145.2	19.9
Feb-2013	1,444.0	418.0	348.0	115.0	26.7	15.0	182.0	5.6	0.0	0.0	0.0	0.0	0.0	887.3	293.6	49.2
Mar-2013	1,631.0	392.0	360.0	132.0	24.7	14.7	182.0	6.2	0.0	0.0	0.0	0.0	0.0	1,064.3	251.5	31.8
Apr-2013	1,609.0	375.0	224.5	80.0	23.8	13.7	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,178.7	281.3	33.1
May-2013	1,747.0	554.0	149.0	57.0	21.9	13.9	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,394.1	483.1	46.6
Jun-2013	1,826.0	571.0	219.0	106.0	23.9	12.9	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,401.1	452.1	44.8
Jul-2013	1,807.0	690.0	258.0	151.0	27.9	15.2	182.0	0.0	0.0	0.0	0.0	0.0	0.0	1,339.1	523.8	52.6
Total		4,881.0		1,443.0		174.7		36.4		0.0	0.0	0.0			3,299.7	

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 134 MW and regulation of 48 MW on average monthly long term basis.
2. CVP generation and Project Use data for 90% Exceedence Levels are based on USBR July 2012 50% Exceedence monthly water forecast for months prior to December 2012. For December 2012 and beyond, Green Book 2004 "Dry" is used. CVP capacity for the 90% Exceedence for months of December 2012 to March 2013 is assumed to be same as that from the 50% Exceedence forecast.
3. CVP generation & PU Load Energy for the 10% Exceedence Level based on USBR July 2012 50% Exceedence Forecast values up to month of November 2012. Green Book ("Above Normal") values are used for December 2012 and thereafter.