Western Area Power Administration
Sierra Nevada Region

Starting Forecast Month: **October 2021**

Twelve-Month Forecast of CVP Generation and Base Resource

October 2021 Through September 2022

Values at Load Center (Tracy Substation)

Exceedance 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)	Additional PU & FP Energy Purchase Reqmts. (GWh)	(This column for future use) (MW)	(This column for future use) (GWh)	Ancillary 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
Oct-2021	935	200	95	65	23.5	17.5	182.0	0.0	0.0	0.0			0.0	634.5	117.5	24.9
Nov-2021	910	120	55	25	23.4	16.9	182.0	0.0	0.0	0.0			0.0	649.6	78.1	16.7
Dec-2021	1040	110	70	45	23.6	17.5	182.0	0.0	0.0	0.0			0.0	764.4	47.5	8.3
Jan-2022	1095	100	140	140	20.9	15.5	182.0	0.0	0.0	55.5			0.0	752.1	0.0	0.0
Feb-2022	1130	100	25	20	21.0	14.1	182.0	0.0	0.0	0.0			0.0	902.0	65.9	10.9
Mar-2022	1280	120	30	25	25.5	19.0	182.0	0.0	0.0	0.0			0.0	1,042.5	76.0	9.8
Apr-2022	1340	230	35	20	27.5	19.8	182.0	0.0	0.0	0.0			0.0	1,095.5	190.2	24.1
May-2022	1430	320	40	20	27.1	20.2	182.0	0.0	0.0	0.0			0.0	1,180.9	279.8	31.9
Jun-2022	1245	390	35	15	27.7	20.0	182.0	0.0	0.0	0.0			0.0	1,000.3	355.0	49.3
Jul-2022	1225	370	40	25	25.8	19.2	182.0	0.0	0.0	0.0			0.0	977.2	325.8	44.8
Aug-2022	1055	340	40	25	23.1	17.2	182.0	0.0	0.0	0.0			0.0	809.9	297.8	49.4
Sep-2022	675	300	35	20	21.7	15.7	182.0	0.0	0.0	0.0			0.0	436.3	264.3	84.2
Total	13,360.0	2,700.0	640.0	445.0	290.9	212.5		0.0		55.5					2,098.0	

Exceedance 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)	Additional PU & FP Energy Purchase Reqmts. (GWh)	(This column for future use)	(This column for future use)	Ancillary 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
Oct-2021	945	210.0	130.0	115.0	23.5	17.5	182.0	0.0	0.0	0.0			0.0	609.5	77.5	17.1
Nov-2021	880	110.0	80.0	60.0	23.4	16.9	182.0	0.0	0.0	0.0			0.0	594.6	33.1	7.7
Dec-2021	1090	100.0	135.0	120.0	23.6	17.5	182.0	0.0	0.0	37.5			0.0	749.4	0.0	0.0
Jan-2022	1175	110.0	100.0	120.0	20.9	15.5	182.0	0.0	0.0	25.5			0.0	872.1	0.0	0.0
Feb-2022	1230	110.0	55.0	40.0	21.0	14.1	182.0	0.0	0.0	0.0			0.0	972.0	55.9	8.6
Mar-2022	1410	140.0	105.0	115.0	25.5	19.0	182.0	0.0	0.0	0.0			0.0	1,097.5	6.0	0.7
Apr-2022	1615	270.0	45.0	30.0	27.5	19.8	182.0	0.0	0.0	0.0			0.0	1,360.5	220.2	22.5
May-2022	1635	410.0	85.0	60.0	27.1	20.2	182.0	0.0	0.0	0.0			0.0	1,340.9	329.8	33.1
Jun-2022	1445	440.0	190.0	120.0	27.7	20.0	182.0	0.0	0.0	0.0			0.0	1,045.3	300.0	39.9
Jul-2022	1495	470.0	160.0	115.0	25.8	19.2	182.0	0.0	0.0	0.0			0.0	1,127.2	335.8	40.0
Aug-2022	1240	370.0	145.0	105.0	23.1	17.2	182.0	0.0	0.0	0.0			0.0	889.9	247.8	37.4
Sep-2022	860	300.0	150.0	125.0	21.7	15.7	182.0	0.0	0.0	0.0			0.0	506.3	159.3	43.7
Total	15,020.0	3,040.0	1,380.0	1,125.0	290.9	212.5		0.0		63.0					1,765.5	

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. All CVP generators are available for production except TRN-2. Using Shasta TCD and unit priority for cold water management.
Some spilling at Trinity to support increased TRD production at Carr and Spring Creek. TRD diversions and generation will fall in early to mid October to conserve storage in Trinity.
Delta pumping likely increasing early in the week of October 4th.

3. Please use 90% study for all your analysis.