Western Area Power Administration
Sierra Nevada Region

Starting Forecast Month: **September 2021**

Twelve-Month Forecast of CVP Generation and Base Resource

September 2021 Through August 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
Sep-2021	780	250	75	45	24.9	17.9	182.0	0.0	0.0	0.0			0.0	498.1	187.1	52.2
Oct-2021	925	200	95	65	27.0	20.1	182.0	0.0	0.0	0.0			0.0	621.0	114.9	24.9
Nov-2021	850	140	95	80	26.9	19.3	182.0	0.0	0.0	0.0			0.0	546.1	40.7	10.3
Dec-2021	1020	100	75	60	27.0	20.1	182.0	0.0	0.0	0.0			0.0	736.0	19.9	3.6
Jan-2022	1070	100	115	110	23.9	17.8	182.0	0.0	0.0	27.8			0.0	749.1	0.0	0.0
Feb-2022	1105	100	25	15	24.1	16.2	182.0	0.0	0.0	0.0			0.0	873.9	68.8	11.7
Mar-2022	1255	110	30	20	29.3	21.8	182.0	0.0	0.0	0.0			0.0	1,013.7	68.2	9.1
Apr-2022	1320	230	35	15	31.6	22.7	182.0	0.0	0.0	0.0			0.0	1,071.4	192.3	24.9
May-2022	1420	330	40	20	31.1	23.1	182.0	0.0	0.0	0.0			0.0	1,166.9	286.9	33.0
Jun-2022	1220	390	45	25	31.8	22.9	182.0	0.0	0.0	0.0			0.0	961.2	342.1	49.4
Jul-2022	1185	380	55	35	29.7	22.1	182.0	0.0	0.0	0.0			0.0	918.3	322.9	47.3
Aug-2022	975	340	50	30	26.5	19.7	182.0	0.0	0.0	0.0			0.0	716.5	290.3	54.5
Total	13,125.0	2,670.0	735.0	520.0	333.8	243.8		0.0		27.8					1,934.0	

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
Sep-2021	780	260.0	85.0	60.0	24.9	17.9	182.0	0.0	0.0	0.0			0.0	488.1	182.1	51.8
Oct-2021	930	210.0	130.0	115.0	27.0	20.1	182.0	0.0	0.0	0.0			0.0	591.0	74.9	17.0
Nov-2021	865	110.0	80.0	75.0	26.9	19.3	182.0	0.0	0.0	0.0			0.0	576.1	15.7	3.8
Dec-2021	1080	100.0	120.0	135.0	27.0	20.1	182.0	0.0	0.0	55.1			0.0	751.0	0.0	0.0
Jan-2022	1160	110.0	100.0	130.0	23.9	17.8	182.0	0.0	0.0	37.8			0.0	854.1	0.0	0.0
Feb-2022	1215	110.0	55.0	65.0	24.1	16.2	182.0	0.0	0.0	0.0			0.0	953.9	28.8	4.5
Mar-2022	1395	140.0	175.0	160.0	29.3	21.8	182.0	0.0	0.0	41.8			0.0	1,008.7	0.0	0.0
Apr-2022	1465	250.0	35.0	25.0	31.6	22.7	182.0	0.0	0.0	0.0			0.0	1,216.4	202.3	23.1
May-2022	1675	400.0	40.0	25.0	31.1	23.1	182.0	0.0	0.0	0.0			0.0	1,421.9	351.9	33.3
Jun-2022	1490	380.0	90.0	50.0	31.8	22.9	182.0	0.0	0.0	0.0			0.0	1,186.2	307.1	36.0
Jul-2022	1550	470.0	95.0	60.0	29.7	22.1	182.0	0.0	0.0	0.0			0.0	1,243.3	387.9	41.9
Aug-2022	1385	420.0	90.0	55.0	26.5	19.7	182.0	0.0	0.0	0.0			0.0	1,086.5	345.3	42.7
Total	14,990.0	2,960.0	1,095.0	955.0	333.8	243.8		0.0		134.7					1,895.9	

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 Summer production except TRN-2. Using Shasta TCD and unit priority for cold water management. TRD deliveries reduced to increase the blend of Shasta water and cool the Sac River.
Bypass test at Shasta on 08/29/2021 showed access to water cooler than current TCD output. Potential of blending bypass water being discussed during the week of August 30th.
Delta pumping increasing mid-week (week of August 30th) to two pumps at Tracy.

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