Western Area Power Administration
Sierra Nevada Region

Starting Forecast Month: **January 2021**

Twelve-Month Forecast of CVP Generation and Base Resource

January 2021 Through December 2021

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)	Additional PU & FP Energy Purchase Reqmts. (GWh)	(This column for future use) (MW)	(This column for future use) (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
Jan-2021	1255	130	45	135	26.7	19.8	182.0	0.0	0.0	24.8			0.0	1,001.3	0.0	0.0
Feb-2021	1305	120	130	105	27.1	18.2	182.0	0.0	0.0	3.2			0.0	965.9	0.0	0.0
Mar-2021	1380	140	95	35	25.4	18.9	182.0	0.0	0.0	0.0			0.0	1,077.6	86.1	10.8
Apr-2021	1450	310	60	25	21.8	15.7	182.0	0.0	0.0	0.0			0.0	1,186.2	269.3	31.5
May-2021	1630	350	60	55	21.6	16.0	182.0	0.0	0.0	0.0			0.0	1,366.4	279.0	27.4
Jun-2021	1460	440	65	30	24.2	17.4	182.0	0.0	0.0	0.0			0.0	1,188.8	392.6	45.9
Jul-2021	1365	460	50	40	26.1	19.4	182.0	0.0	0.0	0.0			0.0	1,106.9	400.6	48.6
Aug-2021	1305	360	80	40	26.9	20.0	182.0	0.0	0.0	0.0			0.0	1,016.1	300.0	39.7
Sep-2021	1120	260	90	70	24.0	17.2	182.0	0.0	0.0	0.0			0.0	824.0	172.8	29.1
Oct-2021	1090	170	125	120	22.3	16.6	182.0	0.0	0.0	0.0			0.0	760.7	33.4	5.9
Nov-2021	1005	140	135	100	24.2	17.5	182.0	0.0	0.0	0.0			0.0	663.8	22.5	4.7
Dec-2021	975	190	100	110	26.2	19.5	182.0	0.0	0.0	0.0			0.0	666.8	60.5	12.2
Total	15,340.0	3,070.0	1,035.0	865.0	296.5	216.4		0.0		28.1					2,016.7	

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)	Additional PU & FP Energy Purchase Reqmts. (GWh)	(This column for future use)	(This column for future use)	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
Jan-2021	1285	120.0	70.0	140.0	26.7	19.8	182.0	0.0	0.0	39.8			0.0	1,006.3	0.0	0.0
Feb-2021	1375	140.0	140.0	125.0	27.1	18.2	182.0	0.0	0.0	3.2			0.0	1,025.9	0.0	0.0
Mar-2021	1490	200.0	135.0	140.0	25.4	18.9	182.0	0.0	0.0	0.0			0.0	1,147.6	41.1	4.8
Apr-2021	1570	330.0	130.0	35.0	21.8	15.7	182.0	0.0	0.0	0.0			0.0	1,236.2	279.3	31.4
May-2021	1790	460.0	70.0	55.0	21.6	16.0	182.0	0.0	0.0	0.0			0.0	1,516.4	389.0	34.5
Jun-2021	1620	540.0	85.0	120.0	24.2	17.4	182.0	0.0	0.0	0.0			0.0	1,328.8	402.6	42.1
Jul-2021	1550	540.0	195.0	140.0	26.1	19.4	182.0	0.0	0.0	0.0			0.0	1,146.9	380.6	44.6
Aug-2021	1530	450.0	200.0	125.0	26.9	20.0	182.0	0.0	0.0	0.0			0.0	1,121.1	305.0	36.6
Sep-2021	1395	310.0	165.0	105.0	24.0	17.2	182.0	0.0	0.0	0.0			0.0	1,024.0	187.8	25.5
Oct-2021	1380	240.0	140.0	85.0	22.3	16.6	182.0	0.0	0.0	0.0			0.0	1,035.7	138.4	18.0
Nov-2021	1300	180.0	95.0	80.0	24.2	17.5	182.0	0.0	0.0	0.0			0.0	998.8	82.5	11.5
Dec-2021	1245	180.0	85.0	85.0	26.2	19.5	182.0	0.0	0.0	0.0			0.0	951.8	75.5	10.7
Total	17,530.0	3,690.0	1,510.0	1,235.0	296.5	216.4		0.0		43.1					2,281.7	

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. Normal power system operations. Generating unit maintenance activities underway and peak capacity is reduced. River flows at Winter base levels. Delta pumping expected to remain near minimum until precipitation runoff begins adding signific