Western Area Power Administration
Sierra Nevada Region

Starting Forecast Month: **March 2021**

Twelve-Month Forecast of CVP Generation and Base Resource

March 2021 Through February 2022

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
Mar-2021	1385	140	30	15	24.0	17.9	182.0	0.0	0.0	0.0			0.0	1,149.0	107.1	12.5
Apr-2021	1430	290	40	20	21.1	15.2	182.0	0.0	0.0	0.0			0.0	1,186.9	254.8	29.8
May-2021	1630	320	75	45	20.3	15.1	182.0	0.0	0.0	0.0			0.0	1,352.7	259.9	25.8
Jun-2021	1505	430	60	40	21.4	15.4	182.0	0.0	0.0	0.0			0.0	1,241.6	374.6	41.9
Jul-2021	1440	460	125	65	22.8	17.0	182.0	0.0	0.0	0.0			0.0	1,110.2	378.0	45.8
Aug-2021	1285	370	105	55	23.8	17.7	182.0	0.0	0.0	0.0			0.0	974.2	297.3	41.0
Sep-2021	1050	250	120	75	22.0	15.8	182.0	0.0	0.0	0.0			0.0	726.0	159.2	30.4
Oct-2021	985	180	120	100	21.9	16.3	182.0	0.0	0.0	0.0			0.0	661.1	63.7	13.0
Nov-2021	1000	120	100	85	24.3	17.5	182.0	0.0	0.0	0.0			0.0	693.7	17.5	3.5
Dec-2021	1190	120	100	110	25.9	19.3	182.0	0.0	0.0	9.3			0.0	882.1	0.0	0.0
Jan-2022	1160	120	105	125	27.0	20.1	182.0	0.0	0.0	25.1			0.0	846.0	0.0	0.0
Feb-2022	1215	120	125	125	27.0	18.1	182.0	0.0	0.0	23.1			0.0	881.0	0.0	0.0
Total	15,275.0	2,920.0	1,105.0	860.0	281.5	205.4		0.0		57.5					1,912.1	

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)	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
Mar-2021	1300	140.0	55.0	30.0	24.0	17.9	182.0	0.0	0.0	0.0			0.0	1,039.0	92.1	11.9
Apr-2021	1490	280.0	40.0	25.0	21.1	15.2	182.0	0.0	0.0	0.0			0.0	1,246.9	239.8	26.7
May-2021	1720	420.0	60.0	40.0	20.3	15.1	182.0	0.0	0.0	0.0			0.0	1,457.7	364.9	33.6
Jun-2021	1595	490.0	110.0	70.0	21.4	15.4	182.0	0.0	0.0	0.0			0.0	1,281.6	404.6	43.8
Jul-2021	1525	490.0	195.0	120.0	22.8	17.0	182.0	0.0	0.0	0.0			0.0	1,125.2	353.0	42.2
Aug-2021	1305	420.0	190.0	120.0	23.8	17.7	182.0	0.0	0.0	0.0			0.0	909.2	282.3	41.7
Sep-2021	1180	310.0	165.0	120.0	22.0	15.8	182.0	0.0	0.0	0.0			0.0	811.0	174.2	29.8
Oct-2021	1115	230.0	130.0	120.0	21.9	16.3	182.0	0.0	0.0	0.0			0.0	781.1	93.7	16.1
Nov-2021	1130	170.0	145.0	150.0	24.3	17.5	182.0	0.0	0.0	0.0			0.0	778.7	2.5	0.4
Dec-2021	1325	140.0	105.0	125.0	25.9	19.3	182.0	0.0	0.0	4.3			0.0	1,012.1	0.0	0.0
Jan-2022	1290	130.0	105.0	125.0	27.0	20.1	182.0	0.0	0.0	15.1			0.0	976.0	0.0	0.0
Feb-2022	1310	130.0	110.0	120.0	27.0	18.1	182.0	0.0	0.0	8.1			0.0	991.0	0.0	0.0
Total	16,285.0	3,350.0	1,410.0	1,165.0	281.5	205.4		0.0		27.5					2,007.1	

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 134 MW and regulation of 48 MW on average monthly long term basis.

2. Normal power system operations. Base Resource is near the lower limit and may not be available on all days. Generating unit maintenance activities underway and peak capacity is reduced. River flows at Winter base levels. Delta pumping at three units and expected to drop to two. Pumping is dependent on precipitation and Delta conditions.