Western Area Power Administration
Sierra Nevada Region

Starting Forecast Month: **March 2024**

Twelve-Month Forecast of CVP Generation and Base Resource

March 2024 Through February 2025

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
Mar-2024	1325	190	80	80	25.2	18.8	182.0	0.0	0.0	0.0			0.0	1,037.8	91.2	11.8
Apr-2024	1590	320	75	35	23.0	16.6	182.0	0.0	0.0	0.0			0.0	1,310.0	268.4	28.5
May-2024	1590	500	90	50	21.2	15.8	182.0	0.0	0.0	0.0			0.0	1,296.8	434.2	45.0
Jun-2024	1590	500	55	40	20.9	15.0	182.0	0.0	0.0	0.0			0.0	1,332.1	445.0	46.4
Jul-2024	1625	570	155	95	23.4	17.4	182.0	0.0	0.0	0.0			0.0	1,264.6	457.6	48.6
Aug-2024	1535	450	170	105	23.5	17.5	182.0	0.0	0.0	0.0			0.0	1,159.5	327.5	38.0
Sep-2024	1250	290	125	65	21.4	15.4	182.0	0.0	0.0	0.0			0.0	921.6	209.6	31.6
Oct-2024	1175	180	100	65	21.0	15.6	182.0	0.0	0.0	0.0			0.0	872.0	99.4	15.3
Nov-2024	1090	140	80	60	24.4	17.6	182.0	0.0	0.0	0.0			0.0	803.6	62.4	10.8
Dec-2024	1015	150	100	110	26.0	19.3	182.0	0.0	0.0	0.0			0.0	707.0	20.7	3.9
Jan-2025	905	140	120	130	27.0	20.1	182.0	0.0	0.0	10.1			0.0	576.0	0.0	0.0
Feb-2025	1345	500	120	75	27.3	18.3	182.0	0.0	0.0	0.0			0.0	1,015.7	406.7	59.6
Total	16,035.0	3,930.0	1,270.0	910.0	284.3	207.4		0.0		10.1					2,822.7	

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
Mar-2024	1350	380.0	85.0	70.0	25.2	18.8	182.0	0.0	0.0	0.0			0.0	1,057.8	291.2	37.1
Apr-2024	1610	370.0	75.0	40.0	23.0	16.6	182.0	0.0	0.0	0.0			0.0	1,330.0	313.4	32.7
May-2024	1615	520.0	105.0	60.0	21.2	15.8	182.0	0.0	0.0	0.0			0.0	1,306.8	444.2	45.7
Jun-2024	1610	520.0	145.0	100.0	20.9	15.0	182.0	0.0	0.0	0.0			0.0	1,262.1	405.0	44.6
Jul-2024	1715	600.0	235.0	150.0	23.4	17.4	182.0	0.0	0.0	0.0			0.0	1,274.6	432.6	45.6
Aug-2024	1655	480.0	215.0	140.0	23.5	17.5	182.0	0.0	0.0	0.0			0.0	1,234.5	322.5	35.1
Sep-2024	1300	340.0	170.0	110.0	21.4	15.4	182.0	0.0	0.0	0.0			0.0	926.6	214.6	32.2
Oct-2024	1275	250.0	145.0	120.0	21.0	15.6	182.0	0.0	0.0	0.0			0.0	927.0	114.4	16.6
Nov-2024	1200	190.0	145.0	135.0	24.4	17.6	182.0	0.0	0.0	0.0			0.0	848.6	37.4	6.1
Dec-2024	1130	210.0	160.0	155.0	26.0	19.3	182.0	0.0	0.0	0.0			0.0	762.0	35.7	6.3
Jan-2025	1025	210.0	125.0	145.0	27.0	20.1	182.0	0.0	0.0	0.0			0.0	691.0	44.9	8.7
Feb-2025	1345	520.0	140.0	120.0	27.3	18.3	182.0	0.0	0.0	0.0			0.0	995.7	381.7	57.0
Total	16,830.0	4,590.0	1,745.0	1,345.0	284.3	207.4		0.0		0.0					3,037.6	

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 rivers are elevated for flood control releases. Shasta releases decreasing but remaining above power plant capacity. Delta pumping is maximized.
Base Resource likely to remain elevated into the next week with significant minimum BR takes required. The increase in 50% March generation is due to increased releases from flood ops.
The increase in 90% July generation is due to increased releases from additional available water in reservoirs that is moved to delta for pumping at Tracy.