Western Area Power Administration
Sierra Nevada Region

Starting Forecast Month: **May 2020**

Twelve-Month Forecast of CVP Generation and Base Resource

May 2020 Through April 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)	(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
May-2020	1780	500	70	40	19.0	14.1	182.0	0.0	0.0	0.0			0.0	1,509.0	445.9	39.7
Jun-2020	1820	560	85	50	20.1	14.5	182.0	0.0	0.0	0.0			0.0	1,532.9	495.5	44.9
Jul-2020	1750	560	145	100	21.3	15.9	182.0	0.0	0.0	0.0			0.0	1,401.7	444.1	42.6
Aug-2020	1395	470	165	115	22.1	16.4	182.0	0.0	0.0	0.0			0.0	1,025.9	338.6	44.4
Sep-2020	1280	330	140	110	20.7	15.4	182.0	0.0	0.0	0.0			0.0	937.3	204.6	30.3
Oct-2020	1165	210	100	85	20.5	15.3	182.0	0.0	0.0	0.0			0.0	862.5	109.7	17.1
Nov-2020	1145	140	50	25	22.6	16.3	182.0	0.0	0.0	0.0			0.0	890.4	98.7	15.4
Dec-2020	1290	130	75	65	24.5	18.2	182.0	0.0	0.0	0.0			0.0	1,008.5	46.8	6.2
Jan-2021	1300	130	145	150	24.9	18.5	182.0	0.0	0.0	38.5			0.0	948.1	0.0	0.0
Feb-2021	1295	130	30	15	25.4	17.0	182.0	0.0	0.0	0.0			0.0	1,057.6	98.0	13.8
Mar-2021	1315	210	30	15	23.8	17.7	182.0	0.0	0.0	0.0			0.0	1,079.2	177.3	22.1
Apr-2021	1500	240	85	55	20.3	14.7	182.0	0.0	0.0	0.0			0.0	1,212.7	170.3	19.5
Total	17,035.0	3,610.0	1,120.0	825.0	265.2	194.0		0.0		38.5					2,629.6	

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
May-2020	1780	510.0	85.0	50.0	19.0	14.1	182.0	0.0	0.0	0.0			0.0	1,494.0	445.9	40.1
Jun-2020	1835	560.0	120.0	75.0	20.1	14.5	182.0	0.0	0.0	0.0			0.0	1,512.9	470.5	43.2
Jul-2020	1775	560.0	195.0	125.0	21.3	15.9	182.0	0.0	0.0	0.0			0.0	1,376.7	419.1	40.9
Aug-2020	1420	460.0	195.0	120.0	22.1	16.4	182.0	0.0	0.0	0.0			0.0	1,020.9	323.6	42.6
Sep-2020	1320	340.0	165.0	115.0	20.7	15.4	182.0	0.0	0.0	0.0			0.0	952.3	209.6	30.6
Oct-2020	1210	230.0	150.0	130.0	20.5	15.3	182.0	0.0	0.0	0.0			0.0	857.5	84.7	13.3
Nov-2020	1200	160.0	125.0	110.0	22.6	16.3	182.0	0.0	0.0	0.0			0.0	870.4	33.7	5.4
Dec-2020	1350	140.0	185.0	160.0	24.5	18.2	182.0	0.0	0.0	38.2			0.0	958.5	0.0	0.0
Jan-2021	1380	140.0	195.0	180.0	24.9	18.5	182.0	0.0	0.0	58.5			0.0	978.1	0.0	0.0
Feb-2021	1260	160.0	130.0	135.0	25.4	17.0	182.0	0.0	0.0	0.0			0.0	922.6	8.0	1.3
Mar-2021	1310	210.0	80.0	70.0	23.8	17.7	182.0	0.0	0.0	0.0			0.0	1,024.2	122.3	16.1
Apr-2021	1640	290.0	85.0	55.0	20.3	14.7	182.0	0.0	0.0	0.0			0.0	1,352.7	220.3	22.6
Total	17,480.0	3,760.0	1,710.0	1,325.0	265.2	194.0		0.0		96.8					2,337.8	

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. Delta requirements continue to impact river operations with irrigation demands are driving increases on the Sacramento River. Trinity Diversions are currently being varied as Trinity ROD flows periodically reduce divertible water. Single unit availability at Spring Creek sets minimum base resource take requirements based on flat-loading the unit. Spring Creek-2 machine work for wear ring repairs is underway. Delta pumping expected to drop to a single unit later. WAPA is maximizing telework due to COVID, but power and water operations are not expected to be impacted.