Western Area Power Administration
Sierra Nevada Region

Starting Forecast Month: **August 2020**

Twelve-Month Forecast of CVP Generation and Base Resource

August 2020 Through July 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
Aug-2020	1395	480	190	125	20.1	15.0	182.0	0.0	0.0	0.0			0.0	1,002.9	340.0	45.6
Sep-2020	1430	330	165	115	18.9	13.6	182.0	0.0	0.0	0.0			0.0	1,064.1	201.4	26.3
Oct-2020	1180	220	75	45	18.8	14.0	182.0	0.0	0.0	0.0			0.0	904.2	161.0	23.9
Nov-2020	1025	150	60	45	20.7	14.9	182.0	0.0	0.0	0.0			0.0	762.3	90.1	16.4
Dec-2020	1170	130	55	35	22.4	16.7	182.0	0.0	0.0	0.0			0.0	910.6	78.3	11.6
Jan-2021	1340	120	125	135	22.8	17.0	182.0	0.0	0.0	32.0			0.0	1,010.2	0.0	0.0
Feb-2021	1315	130	30	15	23.2	15.6	182.0	0.0	0.0	0.0			0.0	1,079.8	99.4	13.7
Mar-2021	1335	160	30	20	21.7	16.1	182.0	0.0	0.0	0.0			0.0	1,101.3	123.9	15.1
Apr-2021	1530	340	40	25	18.6	13.4	182.0	0.0	0.0	0.0			0.0	1,289.4	301.6	32.5
May-2021	1525	420	60	40	18.2	13.5	182.0	0.0	0.0	0.0			0.0	1,264.8	366.5	38.9
Jun-2021	1580	510	50	35	18.9	13.6	182.0	0.0	0.0	0.0			0.0	1,329.1	461.4	48.2
Jul-2021	1420	470	85	55	19.6	14.6	182.0	0.0	0.0	0.0			0.0	1,133.4	400.4	47.5
Total	16,245.0	3,460.0	965.0	690.0	243.9	178.0		0.0		32.0					2,624.0	

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
Aug-2020	1400	460.0	195.0	120.0	20.1	15.0	182.0	0.0	0.0	0.0			0.0	1,002.9	325.0	43.6
Sep-2020	1445	330.0	165.0	120.0	18.9	13.6	182.0	0.0	0.0	0.0			0.0	1,079.1	196.4	25.3
Oct-2020	1205	230.0	150.0	130.0	18.8	14.0	182.0	0.0	0.0	0.0			0.0	854.2	86.0	13.5
Nov-2020	1055	160.0	125.0	130.0	20.7	14.9	182.0	0.0	0.0	0.0			0.0	727.3	15.1	2.9
Dec-2020	1210	130.0	175.0	165.0	22.4	16.7	182.0	0.0	0.0	51.7			0.0	830.6	0.0	0.0
Jan-2021	1405	130.0	175.0	160.0	22.8	17.0	182.0	0.0	0.0	47.0			0.0	1,025.2	0.0	0.0
Feb-2021	1285	160.0	55.0	30.0	23.2	15.6	182.0	0.0	0.0	0.0			0.0	1,024.8	114.4	16.6
Mar-2021	1335	200.0	55.0	40.0	21.7	16.1	182.0	0.0	0.0	0.0			0.0	1,076.3	143.9	18.0
Apr-2021	1720	420.0	40.0	30.0	18.6	13.4	182.0	0.0	0.0	0.0			0.0	1,479.4	376.6	35.4
May-2021	1730	630.0	80.0	40.0	18.2	13.5	182.0	0.0	0.0	0.0			0.0	1,449.8	576.5	53.4
Jun-2021	1845	600.0	140.0	85.0	18.9	13.6	182.0	0.0	0.0	0.0			0.0	1,504.1	501.4	46.3
Jul-2021	1650	560.0	175.0	115.0	19.6	14.6	182.0	0.0	0.0	0.0			0.0	1,273.4	430.4	45.4
Total	17,285.0	4,010.0	1,530.0	1,165.0	243.9	178.0		0.0		98.6					2,765.7	

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. River flows slowly declining as irrigation passes peak demand. Continuing full Delta pumping with temporary reduction across last two days of July. TRD diversions continuing at planned Summer levels.
Single unit availability at Spring Creek sets minimum base resource requirements based on flat-loading of the remaining unit. Spring Creek-2 alignment is complete, and commissioning is proceeding with a mid-August target for return to service