

Twelve-Month Forecast of CVP Generation and Base Resource

July 2019 Through June 2020

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 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)
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Jul-2019	1725	680.0	215.0	150.0	22.3	15.4	182.0	0.0	0.0	0.0			0.0	1,305.7	514.6	53.0
Aug-2019	1615	630.0	195.0	135.0	21.1	14.6	182.0	0.0	0.0	0.0			0.0	1,216.9	480.4	53.1
Sep-2019	1515	440.0	130.0	90.0	19.4	12.9	182.0	0.0	0.0	0.0			0.0	1,183.6	337.1	39.6
Oct-2019	1465	380.0	60.0	30.0	18.9	13.0	182.0	0.0	0.0	0.0			0.0	1,204.1	337.0	37.6
Nov-2019	1160	210.0	115.0	100.0	22.7	15.1	182.0	0.0	0.0	0.0			0.0	840.3	94.9	15.7
Dec-2019	1250	190.0	150.0	160.0	24.1	16.6	182.0	0.0	0.0	0.0			0.0	893.9	13.4	2.0
Jan-2020	1300	160.0	130.0	135.0	24.2	16.7	182.0	0.0	0.0	0.0			0.0	963.8	8.3	1.2
Feb-2020	1535	160.0	135.0	115.0	26.4	17.1	182.0	0.0	0.0	0.0			0.0	1,191.6	27.9	3.4
Mar-2020	1390	250.0	155.0	150.0	22.6	15.5	182.0	0.0	0.0	0.0			0.0	1,030.4	84.5	11.0
Apr-2020	1745	380.0	60.0	40.0	20.1	13.4	182.0	0.0	0.0	0.0			0.0	1,482.9	326.6	30.6
May-2020	1715	520.0	90.0	65.0	19.3	13.3	182.0	0.0	0.0	0.0			0.0	1,423.7	441.7	41.7
Jun-2020	1650	480.0	195.0	135.0	20.4	13.6	182.0	0.0	0.0	0.0			0.0	1,252.6	331.4	36.7
Total		4,480.0		1,305.0		177.3		0.0		0.0					2,997.7	

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)	Ancillary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Jul-2019	1720	680.0	215.0	150.0	22.3	15.4	182.0	0.0	0.0	0.0			0.0	1,300.7	514.6	53.2
Aug-2019	1615	620.0	200.0	135.0	21.1	14.6	182.0	0.0	0.0	0.0			0.0	1,211.9	470.4	52.2
Sep-2019	1535	450.0	145.0	105.0	19.4	12.9	182.0	0.0	0.0	0.0			0.0	1,188.6	332.1	38.8
Oct-2019	1485	360.0	55.0	35.0	18.9	13.0	182.0	0.0	0.0	0.0			0.0	1,229.1	312.0	34.1
Nov-2019	1190	240.0	145.0	145.0	22.7	15.1	182.0	0.0	0.0	0.0			0.0	840.3	79.9	13.2
Dec-2019	1290	200.0	140.0	155.0	24.1	16.6	182.0	0.0	0.0	0.0			0.0	943.9	28.4	4.0
Jan-2020	1355	230.0	155.0	145.0	24.2	16.7	182.0	0.0	0.0	0.0			0.0	993.8	68.3	9.2
Feb-2020	1620	300.0	155.0	140.0	26.4	17.1	182.0	0.0	0.0	0.0			0.0	1,256.6	142.9	16.3
Mar-2020	1440	430.0	155.0	160.0	22.6	15.5	182.0	0.0	0.0	0.0			0.0	1,080.4	254.5	31.7
Apr-2020	1785	420.0	60.0	40.0	20.1	13.4	182.0	0.0	0.0	0.0			0.0	1,522.9	366.6	33.4
May-2020	1755	540.0	90.0	65.0	19.3	13.3	182.0	0.0	0.0	0.0			0.0	1,463.7	461.7	42.4
Jun-2020	1680	480.0	195.0	130.0	20.4	13.6	182.0	0.0	0.0	0.0			0.0	1,282.6	336.4	36.4
Total		4,950.0		1,405.0		177.3		0.0		0.0					3,367.7	

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. Assumptions were made based on Moderate temperatures expected with warming trend in coming week. Peaking at all facilities except Trinity and river-run plants. Project Use being impacted in real time by weed/debris fouling at Tracy Fish Faci