

Twelve-Month Forecast of CVP Generation and Base Resource
May 2019 Through April 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)	Capacity Factor (%)
May-2019	1560	590.0	105.0	65.0	18.6	13.8	182.0	0.0	0.0	0.0			0.0	1,254.4	511.2	54.8	
Jun-2019	1715	600.0	190.0	125.0	19.8	14.2	182.0	0.0	0.0	0.0			0.0	1,323.2	460.8	48.4	
Jul-2019	1705	660.0	245.0	160.0	22.3	16.6	182.0	0.0	0.0	0.0			0.0	1,255.7	483.4	51.7	
Aug-2019	1585	610.0	225.0	150.0	21.1	15.7	182.0	0.0	0.0	0.0			0.0	1,156.9	444.3	51.6	
Sep-2019	1500	420.0	180.0	105.0	19.4	14.0	182.0	0.0	0.0	0.0			0.0	1,118.6	301.0	37.4	
Oct-2019	1550	310.0	55.0	30.0	18.9	14.1	182.0	0.0	0.0	0.0			0.0	1,294.1	265.9	27.6	
Nov-2019	1275	210.0	110.0	95.0	22.7	16.3	182.0	0.0	0.0	0.0			0.0	960.3	98.7	14.3	
Dec-2019	1370	190.0	160.0	145.0	24.1	17.9	182.0	0.0	0.0	0.0			0.0	1,003.9	27.1	3.6	
Jan-2020	1415	160.0	130.0	125.0	24.2	18.0	182.0	0.0	0.0	0.0			0.0	1,078.8	17.0	2.1	
Feb-2020	1525	160.0	130.0	110.0	26.4	18.4	182.0	0.0	0.0	0.0			0.0	1,186.6	31.6	3.8	
Mar-2020	1385	250.0	150.0	145.0	22.6	16.8	182.0	0.0	0.0	0.0			0.0	1,030.4	88.2	11.5	
Apr-2020	1385	340.0	80.0	40.0	20.7	14.9	182.0	0.0	0.0	0.0			0.0	1,102.3	285.1	35.9	
Total		4,500.0		1,295.0		190.8		0.0		0.0					3,014.2		

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)	Capacity Factor (%)
May-2019	1560	590.0	115.0	75.0	18.6	13.8	182.0	0.0	0.0	0.0			0.0	1,244.4	501.2	54.1	
Jun-2019	1720	630.0	190.0	130.0	19.8	14.2	182.0	0.0	0.0	0.0			0.0	1,328.2	485.8	50.8	
Jul-2019	1705	650.0	265.0	165.0	22.3	16.6	182.0	0.0	0.0	0.0			0.0	1,235.7	468.4	51.0	
Aug-2019	1605	660.0	245.0	150.0	21.1	15.7	182.0	0.0	0.0	0.0			0.0	1,156.9	494.3	57.4	
Sep-2019	1535	440.0	195.0	120.0	19.4	14.0	182.0	0.0	0.0	0.0			0.0	1,138.6	306.0	37.3	
Oct-2019	1520	310.0	80.0	60.0	18.9	14.1	182.0	0.0	0.0	0.0			0.0	1,239.1	235.9	25.6	
Nov-2019	1320	240.0	80.0	55.0	22.7	16.3	182.0	0.0	0.0	0.0			0.0	1,035.3	168.7	22.6	
Dec-2019	1425	210.0	140.0	140.0	24.1	17.9	182.0	0.0	0.0	0.0			0.0	1,078.9	52.1	6.5	
Jan-2020	1495	300.0	130.0	130.0	24.2	18.0	182.0	0.0	0.0	0.0			0.0	1,158.8	152.0	17.6	
Feb-2020	1610	310.0	155.0	125.0	26.4	18.4	182.0	0.0	0.0	0.0			0.0	1,246.6	166.6	19.2	
Mar-2020	1450	460.0	150.0	145.0	22.6	16.8	182.0	0.0	0.0	0.0			0.0	1,095.4	298.2	36.6	
Apr-2020	1435	540.0	80.0	50.0	20.7	14.9	182.0	0.0	0.0	0.0			0.0	1,152.3	475.1	57.3	
Total		5,340.0		1,345.0		190.8		0.0		0.0					3,804.2		

Notes:

- 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.