

**Sunday, August 25, 2019 Hourly State Fair Electric Energy (kW) Requirements and Estimated Deficit  
for a Solar Array with a Capacity of 30,415 kW**

State Fair Hours Hour	State Fair Hours Weight	Hour Load	OOWWTP Hourly Output	30,415 kW Hourly Output	Deficit (kW)	Deficit (MW)
0	50	5,643	0	0	-5,643	-5.64
1	40	4,514	0	0	-4,514	-4.51
2	15	1,693	0	0	-1,693	-1.69
3	15	1,693	0	0	-1,693	-1.69
4	15	1,693	0	0	-1,693	-1.69
5	15	1,693	0	0	-1,693	-1.69
6	15	1,693	0	0	-1,693	-1.69
7	30	3,386	12	145	-3,241	-3.24
8	40	4,514	134	1,611	-2,903	-2.90
9	50	5,643	577	6,956	1,313	1.31
10	60	6,772	1,090	13,150	6,379	6.38
11	70	7,900	1,442	17,386	9,485	9.49
12	80	9,029	1,670	20,145	11,116	11.12
13	80	9,029	1,839	22,181	13,152	13.15
14	80	9,029	1,738	20,955	11,927	11.93
15	80	9,029	1,731	20,878	11,849	11.85
16	85	9,593	1,496	18,042	8,449	8.45
17	90	10,157	1,169	14,096	3,938	3.94
18	95	10,722	728	8,780	-1,942	-1.94
19	100	11,286	253	3,049	-8,237	-8.24
20	100	11,286	22	270	-11,016	-11.02
21	100	11,286	0	0	-11,286	-11.29
22	100	11,286	0	0	-11,286	-11.29
23	80	9,029	0	0	-9,029	-9.03