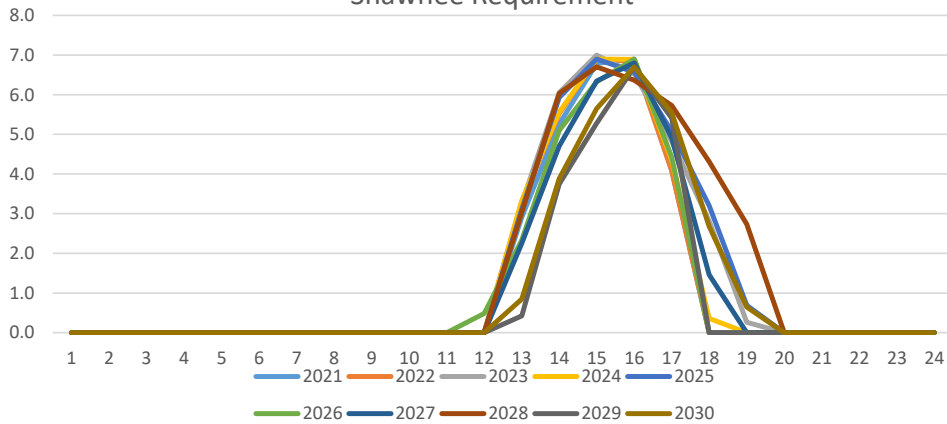


# DER Attribute Requirements: Shawnee 66/12kV

Shawnee Requirement



Season(s)	Date(s)
Winter	November - February
Spring	March - May
Summer	June - October

Capacity (MW)	Energy Need (MWh)	Season	Monthly Frequency	Yearly Frequency	Year
6.9	26.0	Summer	5	15	2021
6.9	26.6	Summer	5	15	2022
7.0	30.8	Summer	5	15	2023
6.9	27.4	Summer	5	15	2024
6.9	31.5	Summer	6	15	2025
6.9	25.5	Summer	5	15	2026
6.8	26.5	Summer	5	15	2027
6.7	34.8	Summer	5	15	2028
6.7	21.5	Summer	5	15	2029
6.7	26.0	Summer	5	15	2030

Year	Peak Hourly Need (MW)																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.3	6.8	6.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	5.5	6.9	6.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.1	7.0	6.5	4.8	2.8	0.3	0.0	0.0	0.0	0.0	0.0
2024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	5.6	6.9	6.9	4.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
2025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.9	6.9	6.6	5.1	3.2	0.7	0.0	0.0	0.0	0.0	0.0
2026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.3	5.1	6.3	6.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.7	6.3	6.8	4.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
2028	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0	6.7	6.4	5.7	4.3	2.7	0.0	0.0	0.0	0.0	0.0
2029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.7	5.3	6.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.9	5.7	6.7	5.6	2.7	0.6	0.0	0.0	0.0	0.0	0.0

- A transformer upgrade at Shawnee 66/12kV substation is planned to relieve the Shawnee 66/12kV substation which is projected to exceed capacity limits.