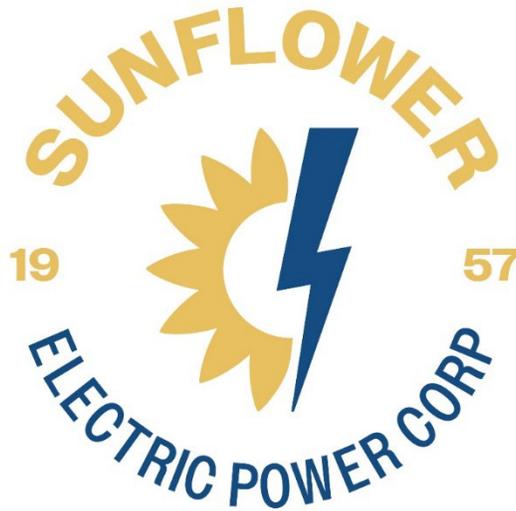




**Interconnection Facilities Study
for GEN-2023-107 Network Upgrades and TOIF upgrades at
the Setab 345 kV Substation**



January 23, 2026

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STUDY OVERVIEW:

The Southwest Power Pool has requested a Facility Study for Interconnection Facilities and Network Upgrades from Sunflower Electric Power Corporation (Sunflower) at the Setab 345 kV Substation for request GEN-2023-107. The GEN-2023-107 request consists of a total of 300 MW of wind generation interconnecting at the Setab 345 kV Substation.

The Non-Shared Network Upgrades (NU) identified to accept a new generator lead includes terminal equipment to accept a new line at the existing Setab 345 kV Substation. The cost for these Network Upgrades is estimated at \$5,338,489.

The Transmission Owner Interconnection Facility (TOIF) addition identified is a new 345 kV generator lead connection at the existing Setab 345 kV Substation. The cost for adding the new 345 kV generator lead is estimated at \$2,206,495.

The purpose of this study is to provide estimated costs of facilities required for interconnection of the proposed generation to Sunflower's transmission system and to identify scope and estimated costs for network upgrades required on Sunflower's transmission system to allow the generation to run at the full requested capacity.

Additional network upgrades required for facilities of other transmission owners are not included in this study and will be identified by SPP.

INTERCONNECTION FACILITIES AND NON-SHARED NETWORK UPGRADES:

Non-shared Network Upgrades (NU) additions required by Sunflower consist of the addition of a 345 kV line terminal with circuit breakers, CCVTs, disconnect switches, structures, foundations, conductors, insulators, and all other associated work and materials.

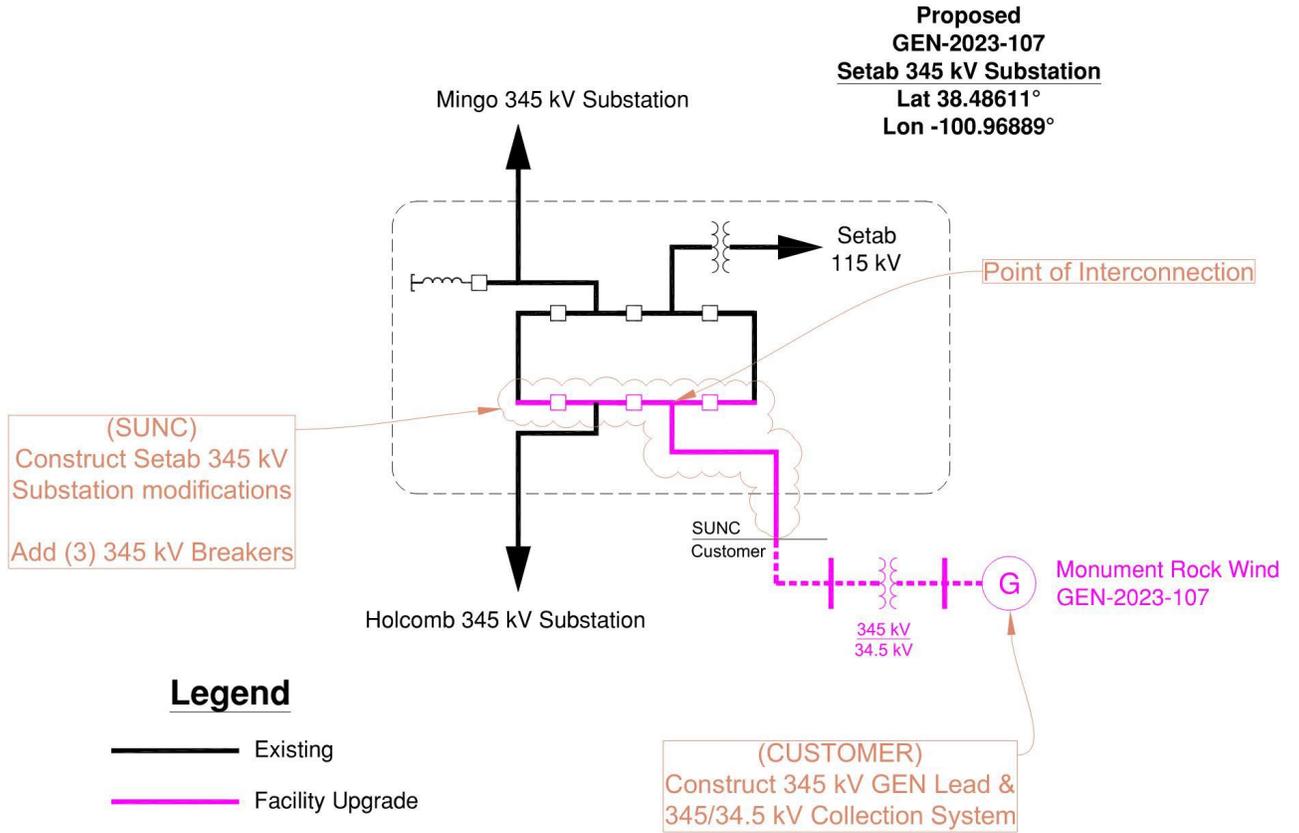
Transmission Owner Interconnection Facility (TOIF) additions required by Sunflower consist of revenue metering CTs and PTs, disconnect switch, protective relays, and terminal equipment needed to interconnect the customer's generator lead line to Sunflower's Setab 345 kV Substation.

This 345 kV addition at Setab 345 kV Substation shall be constructed and maintained by Sunflower. It is assumed that obtaining all necessary right-of-way for the line into the Sunflower 345 kV substation facilities will be performed by the interconnection customer. The addition of the generator 345 kV lead line from the customer substation into the existing Sunflower Setab Substation and the step-up transformer that connects to the customer's collector substation is not included and is the responsibility of the interconnection customer.

The proposed arrangement for interconnection of GEN-2023-107 is shown in Figure 1.

Interconnection Facilities Study – Setab 345 kV Network Upgrades and TOIF

Figure 1: One-line Diagram Facilities for GEN-2023-107



INTERCONNECTION COSTS:

Summary of interconnection costs for both Interconnection Facilities and Sunflower identified Network Upgrades can be found in the following table.

| Upgrade Type | UID | Upgrade Name/Description | DISIS Cost Estimate | DISIS Lead Time |
|------------------------------------|--------|--|---------------------|-----------------|
| Interconnection | 158675 | Setab 345 kV GEN-2023-107 Interconnection (Non-Shared NU) (SEPC) Construct the addition of a single 345 kV line terminal with circuit breakers, CCVTs, disconnect switches, structures, foundations, conductors, insulators, and all other associated work and materials. | \$5,338,489 | 52 |
| Interconnection | 158849 | Setab 345 kV GEN-2023-107 Interconnection (TOIF) (SEPC) Construct one (1) line terminal addition in the new 345 kV substation with revenue metering CTs and PTs, disconnect switch, protective relays, and terminal equipment needed to interconnect the customer’s generator lead line. | \$2,206,495 | 52 |
| Total Interconnection Cost: | | | \$7,544,984 | |

PROJECT TIMELINE:

Specific construction schedule and milestones will be determined during the Generator Interconnection Agreement negotiations. Sunflower is estimating an engineering and construction schedule for this project as approximately 52 months. Other factors associated with clearances, equipment procurement delays and work schedules could cause additional delays. This is applicable after all required agreements are signed and internal approvals are granted.