



Interconnection Facilities Study

**Costs associated with
DISIS-2023-001
GEN-2023-099**

January 2026

Introduction

This report summarizes the scope of the Interconnection Facilities Analysis for Network Upgrade(s) to determine costs related to the addition of the SPP-GI DISIS-2023-001 Interconnection Request(s). Evergy, as a TO, is receiving an unprecedented amount of GI interconnect requests. The cost estimates and interconnect information supplied are based on current system configuration. There are many cases of multiple GI's requesting POIs at the same substation. Ongoing changes in Evergy's transmission system configuration could affect the required system upgrades and costs necessary to meet any particular GI interconnect request in the future.

Southwest Power Pool Generation Interconnection Request:

Per the SPP Generator Interconnection Procedures (GIP), SPP has requested that Evergy perform an Interconnection Facilities Study (IFS) for Network Upgrade(s) in accordance with the Scope of Interconnection Facilities Study GIP Section 8.10 and the Interconnection Facilities Study Procedures in accordance with GIP Section 8.11 for the following Interconnection Request(s):

Upgrade Type	UID	Upgrade Name	DISIS Cost Estimate	DISIS Lead Time
Interconnection	158837	Jeffery Energy Center 345 kV Substation GEN-2023-099 Interconnection (TOIF) (Evergy)	\$ 112,911.00	36 months
Interconnection	158838	Jeffery Energy Center 345 kV Substation GEN-2023-099 Interconnection (Non-Shared NU) (Evergy)	\$ 0.00	36 months

Jeffery Energy Center 345 kV Substation GEN-2023-099 Interconnection (TOIF) (Evergy)

345kV Substation

TOIF for accommodating NextEra GEN-2023-099 (300MW of Solar). This estimate is the cost associated with the Transmission Owner Interconnection Facilities for relay settings upgrades at Jeffrey Energy Center 345kV Substation. GEN-2023-099 will be sharing the pre-existing gen-tie at Jeffrey Energy Center 345kV Substation with GEN-2021-107. UID 158837

Total Cost

The total cost estimate for this Network Upgrade is:

\$	0	Transmission Line
\$	112,574	Substation
\$	337	AFUDC
\$	0	Contingency
\$	112,991	Total

This estimate is accurate to +/- twenty (20) percent, based on current prices, in accordance with Attachment A of Appendix 4 of the Interconnection Facilities Study

Agreement. However, recent cost fluctuations in materials are very significant and the accuracy of this estimate at the time of actual settings cannot be assured.

Time Estimate

Time estimates are based on current version of the project schedule and some processes of each category run concurrently.

Engineering Time	36	Months
Procurement Time	36	Months
Construction Time	36	Months
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Total Project Length	36	Months

Jeffery Energy Center 345 kV Substation GEN-2023-099 Interconnection (Non-Shared NU) (Evergy)

345kV Substation

GEN-2023-099 will be sharing the pre-existing gen-tie at Jeffrey Energy Center 345kV Substation with GEN-2021-107. There is no network upgrade required. UID 158838

Total Cost

The total cost estimate for this Network Upgrade is:

\$	0	Transmission Line
\$	0	Substation
\$	0	AFUDC
\$	0	Contingency
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\$	0	Total

This estimate is accurate to +/- twenty (20) percent, based on current prices, in accordance with Attachment A of Appendix 4 of the Interconnection Facilities Study Agreement. However, recent cost fluctuations in materials are very significant and the accuracy of this estimate at the time of actual settings cannot be assured.

Time Estimate

Time estimates are based on current version of the project schedule and some processes of each category run concurrently.

Engineering Time	36	Months
Procurement Time	36	Months
Construction Time	36	Months
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Total Project Length	36	Months

Figure 1 – Jeffrey Evergy Center 345/230kV Substation

