



Interconnection Facilities Study

**Costs associated with
DISIS-2023-001
GEN-2023-170**

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	158938	Salisbury 161 kV Substation GEN-2023-170 Interconnection (TOIF) (Evergy)	\$ 1,085,688.00	36 months
Interconnection	158939	Salisbury 161 kV Substation GEN-2023-170 Interconnection (Non-Shared NU) (Evergy)	\$ 6,267,996.00	36 months

Salisbury 161 kV Substation GEN-2023-170 Interconnection (TOIF) (Evergy)

161kV Substation

TOIF for accommodating Expedition Reserve Energy LLC GEN-2023-170 (150MW of Battery/Storage). This estimate is the cost associated with the Transmission Owner Interconnection Facilities for a terminal at Salisbury 161kV Substation for GEN-2023-170. UID 158938

Total Cost

The total cost estimate for this Network Upgrade is:

\$	0	Transmission Line
\$	991,267	Substation
\$	3,247	AFUDC
\$	91,172	Contingency
\$	1,085,688	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

Salisbury 161 kV Substation GEN-2023-170 Interconnection (Non-Shared NU) (Evergy)

161kV Substation

Network Upgrade to construct new 161kV bay at Salisbury to accommodate Expedition Reserve Energy LLC GEN-2023-170 (150MW of Battery/Storage). Substation estimates assume fiber on interconnect line. May require retermination of existing 161kV lines to accommodate new bay. The transmission line estimates assume the rerouting and termination of the Norton and Brunswick lines into new positions at the Salisbury substation. New easements will be required. UID 158939

Total Cost

The total cost estimate for this Network Upgrade is:

\$	4,480,000	Transmission Line
\$	1,616,700	Substation
\$	18,747	AFUDC
\$	152,548	Contingency
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\$	6,267,996	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.

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Figure 1 – Salisbury 161kV Substation

