Interconnection Facilities Study

Costs associated with
DISIS-2022-001
GEN-2022-161

October 2025

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-2022-001 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	158084	Burns 345kV Substation GEN-2022-161 Interconnection (TOIF) (EKC)	$ 0.00	18 Months
Interconnection	158085	Burns 345kV Substation GEN-2022-161 Interconnection (EKC)	$ 112,911.00	18 Months

Burns 345kV Substation GEN-2022-161 Interconnection (TOIF) (EKC)

345kV Substation

TOIF for connecting to a shared gen tie with GEN-2014-001 to accommodate Orsted GEN-2022-161 (400MW of Wind) at Burns 345kV Substation. This estimate is the cost associated with the Transmission Owner Interconnection Facilities for a shared terminal at the Burns 345kV substation for GEN-2022-144. UID 158084

Total Cost

The total cost estimate for this TOIF is:

$	0	Transmission Line
$	0	Substation
$	0	AFUDC
$	0	Contingency
$	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	0	Months
Procurement Time	0	Months
Construction Time	0	Months
Total Project Length	0	Months

Burns 345kV Substation GEN-2022-161 Interconnection (EKC)

345kV Substation

Network Upgrades (DISIS-2014-001) for connecting to an existing gen tie 345kV terminal to accommodate Orsted GEN-2022-161 (400MW of Wind). This estimate assumes a previously executed GIA with DISIS-2014-001 and includes a relay settings review and updates only. UID 158085

Total Cost

The total cost estimate for this Network Upgrade is:

$	0	Transmission Line
$	112,574	Substation
$	337	AFUDC
$	0	Contingency
$	112,911	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	12-18	Months
Procurement Time	12-18	Months
Construction Time	12-18	Months
Total Project Length	12-18	Months

Figure 1 – Burns 345kV Sub