



FACILITY STUDY

for

Generation Interconnect Request GEN-2023-206

50MW Battery/Storage Generating Facility

Sebastian County

Arkansas

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Summary

Pursuant to the tariff and at the request of the Southwest Power Pool (SPP), Oklahoma Gas and Electric (OG&E) performed the following Facility Study to satisfy the Facility Study Agreement executed by the requesting customer for SPP Generation Interconnection request GEN-2023-206. The request for interconnection was placed with SPP in accordance with SPP's Open Access Transmission Tariff, which covers new generation interconnections on SPP's transmission system. GEN-2023-206 will share a gen tie with GEN-2022-130. The requirements for interconnection consist of installing meters at the Interconnection Customer's collector substation for the purpose of revenue metering of the battery/storage generation. Network upgrades at the Battlefield substation consist of settings upgrades. The total cost of OKGE is estimated at **\$130,000**.

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Introduction

The Southwest Power Pool has requested a Facility Study for the purpose of interconnecting a battery/storage generating facility within the service territory of OG&E Electric Services (OKGE) in Sebastian County, Arkansas. The proposed 161kV point of interconnection is a Battlefield Substation in Sebastian County. This substation will be owned by OKGE. The cost for updating settings at Battlefield substation and installing metering at the generating facility is estimated at **\$130,000**.

Network Constraints in the Southwest Public Service (SPS), OKGE and Western Farmers Electric Cooperative (WFEC) systems may be verified with a transmission service request and associated studies.

Other Network Constraints in the American Electric Power West (AEPW), Southwest Public Service (SPS), OKGE and Western Farmers Electric Cooperative (WFEC) systems may be verified with a transmission service request and associated studies.

Interconnection Facilities

The primary objective of this study is to identify attachment facilities. The requirements for interconnection consist of updating terminal settings at Battlefield Substation and installing revenue meters at the generating facility. This 161kV addition shall be constructed and maintained by OKGE.

The total cost for OKGE to add new 34.5kV meters at the generating facility and settings updates, is estimated at \$130,000. This does not include the Customer's 161-34.5kV substation and the cost estimate should be determined by the Customer.

This Facility Study does not guarantee the availability of transmission service necessary to deliver the additional generation to any specific point inside or outside the Southwest Power Pool (SPP) transmission system. The transmission network facilities may not be adequate to deliver the additional generation output to the transmission system. If the customer requests firm transmission service under the SPP Open Access Transmission Tariff at a future date, Network Upgrades or other new construction may be required to provide the service requested under the SPP OATT.

The costs of interconnecting the facility to the OKGE transmission system are listed in Table 1.

Short Circuit Fault Duty Evaluation

It is standard practice for OG&E to recommend replacing a circuit breaker when the current through the breaker for a fault exceeds 100% of its interrupting rating with re-closer de-rating applied, as determined by the ANSI/IEEE C37.5-1979, C37.010-1979 & C37.04-1979 breaker rating methods.

For this generator interconnection, no breakers were found to exceed their interrupting capability after the addition of the Customer’s 50 MW generation and related facilities. OG&E found no breakers that exceeded their interrupting capabilities on their system. Therefore, there is no short circuit upgrade costs associated with the GEN-2023-206 interconnection.

Table 1: Required Interconnection Network Upgrade Facilities

Facility	ESTIMATED COST (2026 DOLLARS)
Lead time	9 Months
OKGE – Interconnection Facilities (UID 158995) - Add revenue metering at the 34.5kV injection point for the battery/storage facility	\$100,000
OKGE – Network Upgrades (UID 158996) - Settings upgrades at Battlefield 161kV Substation	\$30,000
OKGE – Land or ROW –	\$0
Total	\$130,000

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