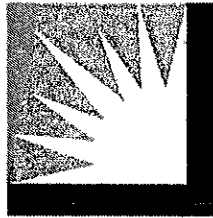


[REDACTED]

# Wholesale Distribution Access Tariff Facility Study Report

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SOUTHERN CALIFORNIA  
**EDISON**  
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**I. Executive Summary**

[REDACTED] applied to Southern California Edison (SCE) for Distribution Service under the terms of SCE's Wholesale Distribution Access Tariff ("WDAT"). [REDACTED] proposes to construct facilities located on the [REDACTED] to serve [REDACTED] of Wholesale Distribution Load Project. [REDACTED] has requested SCE to provide interconnection and distribution service pursuant to the WDAT from the California Independent System Operator (CAISO) grid to a proposed new [REDACTED] in the vicinity of the Project.

For above project SCE will design, install, own, operate and maintain a new [REDACTED] substation. For the purpose of this study, the new substation will be referred to as the [REDACTED]. The project will loop the [REDACTED]

Upon review of the completed application, SCE has completed a System Impact Study to determine the adequacy of SCE's electrical system, including, but not limited to, that portion of SCE's electrical system that is part of the ISO Grid, required to provide distribution service to the Project. In addition, a facilities study has been completed to determine required direct assignment facilities, any distribution system upgrades and any other required modifications of additional facilities needed to accommodate the Project.

[REDACTED] has requested an operation date of the project in early 2017.

**FOR ADDITIONAL DETAIL REFER TO THE FOLLOWING EXHIBIT:**

**EXHIBIT A: [REDACTED] IMPACT STUDY REPORT - EXECUTIVE SUMMARY**

SCE performed a System Impact Study as requested by [REDACTED] for interconnection and distribution service for [REDACTED] of Wholesale Distribution Load to deliver power to the southern area of [REDACTED]. The point of interconnection would be a [REDACTED] owned and operated by SCE and located within the [REDACTED]. [REDACTED] would own and operate the transformers and downstream facilities.

The new electrical demand would be served from SCE's [REDACTED]. The power would be delivered from the CAISO controlled grid through the [REDACTED] at SCE's [REDACTED] and through various [REDACTED] to the customer interface point.

The purpose of this study is to determine the impact of the proposed electrical demand addition on the CAISO controlled system and the SCE controlled distribution system. Once any impacts are determined, the appropriate modifications and/or additions are identified that would be necessary both to accommodate the request and to maintain a safe and reliable system. The estimated cost and time required to complete any identified modifications and/or additions is addressed in the Facilities Study. The System Impact Study and Facility Study identify specific SCE system upgrades within SCE's 10 year planning window (2015-2024) and verifies the

adequacy of the Direct Assignment facilities beyond the 2017 timeframe for the expected peak electrical demands for the years 2017 thru 2024.

## II. Results of System Impact Study

### Identification of System Constraints

Detailed studies were performed through 2024 and were based on [REDACTED] projected maximum electrical demand of [REDACTED] using the projected peak electrical demand for SCE's [REDACTED] serving the project.

[REDACTED] shall not parallel (i.e., closed transition) any facilities served by this project with any other electrical facilities including, but not limited to, other [REDACTED] load or generation facilities not studied by SCE to receive service from this [REDACTED] SCE facilities, generators, or other facilities served by other electrical utilities without first receiving authorization from SCE.

### CAISO System Impacts (Within SCE 10 year planning window 2015-2024)

There are no upgrades required to CAISO controlled facilities through 2024.

### Distribution System Impacts (Within SCE's 10 year planning window 2015-2024)

- There would be no upgrades required for the [REDACTED]
- In 2024, the [REDACTED] load is projected to cause an N-1 overload on the [REDACTED]
- In 2024, the [REDACTED] load is projected to cause an N-1 overload on the [REDACTED]

### Direct Assignment Impacts

In order to establish the point of interconnection located within the [REDACTED] territory at the [REDACTED] This will require protection system upgrades, metering, and any other associated work for the sole benefit of providing the requested electrical service to the [REDACTED] and would be considered Direct Assignment facilities.

### SYSTEM IMPACT STUDY CONCLUSION

The system impacts of interconnecting the [REDACTED] [REDACTED] would be addressed by creating a system upgrade project.

**III. Facilities Study Assumptions**

- A. The customer will purchase sufficient property to enable SCE's construction of the proposed [REDACTED] [REDACTED] will deed over title of the land associated with the proposed [REDACTED] to SCE.
- B. Two options were studied: Option 1 assumed SCE to perform licensing and environmental work. Option 2 assumed customer to perform licensing and environmental work with SCE's input, review, and support.
- C. The approximate size required for [REDACTED] is 168 feet by 140 feet (includes MEER, battery room, telecom room, and 10 feet outside fence perimeter).
- D. **BOTH** telecommunication paths between [REDACTED] and the [REDACTED] [REDACTED] will be provided by the customer.
- E. Customer will provide all necessary information to [REDACTED]

**IV. Facilities Study Scope and Cost Estimate**

**IV – A Facilities Study Scope**

**INTERCONNECTION FACILITIES:**

[REDACTED]

SCE will design, install, own, operate and maintain [REDACTED]  
[REDACTED]

Switchrack:

- **Installation:**
  - [REDACTED]
  - [REDACTED]
  - [REDACTED]
  - [REDACTED]
  - [REDACTED]
  - [REDACTED]

Mechanical Electrical Equipment Room (MEER):

- **Installation:**
  - [REDACTED]

[Redacted]

- [Redacted]
- [Redacted]

**Subtransmission:**

Install [Redacted]

**Telecommunication:**

• **Installation:**

- Lightwave, channel and associated equipment at [Redacted] and [Redacted] out of comm room of new MEER at [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

**Power Systems Control:**

To monitor [Redacted]

- [Redacted]
- [Redacted]
- [Redacted]

**Corporate Environmental Health and Safety Licensing**

Perform all required activities related to support the new [Redacted] and loop in the lines. The assumption for option 1 is SCE to perform licensing and environmental work and for option 2 is customer to perform licensing and environmental work with SCE's input, review, and support.

**Real Properties**

Perform all required activities related to support the [Redacted]

**Metering**

Install [Redacted] to meter [Redacted] Wholesale Distribution Load.

**FOR ADDITIONAL DETAIL REFER TO THE FOLLOWING EXHIBIT:**

Exhibit A : System Impact Study Report – Executive Summary

Exhibit B: Cost Summary

**IV – B Facilities Study Cost Estimate**

Option 1: (SCE to perform licensing and environmental work)

The total estimated cost of all elements associated with [REDACTED] as identified above in this Facilities Study Scope is \$24.3 million.

Option 2: (Customer to perform licensing and environmental work with SCE's input, review, and support)

The total estimated cost of all elements associated with [REDACTED] line as identified above in this Facilities Study Scope is \$16.4 million.

**V. Conclusions**

- A. The estimated cost for SCE to interconnect the [REDACTED] line to the SCE-owned [REDACTED] is approximately \$24.3 million ( if SCE performs the licensing and environmental work), otherwise \$16.4 million (if the customer performs the licensing and environmental work).
- B. The time required to complete the proposed project will be approximately 80 months (from licensing efforts to construction completion) for option 1 and 33 months (6 months for license application approval and 27 months for engineering, design, and construction completion) for option 2, after receiving project authorization and funding. This time includes engineering, material procurement and construction. This timeframe is subject to final verification by SCE of available resources at the time SCE receives project authorization and funding. A detailed Project Schedule will be provided during the engineering and design phase of the project.
- C. The costs indicated above are shown 2015 dollars and are not firm. These costs are preliminary estimates based on conceptual engineering and system unit costs, and are subject to change based on the final design and actual material costs. This Facilities Study and cost estimates as presented are valid for a period of 90 days.
- D. The estimated costs will be reconciled to actual costs upon closure of the subject work orders. The necessary billing adjustments will be made at that time.
- E. Study results may be affected by changes in other projects in the area with earlier application dates. If such changes occur, further studies may be required.

**Exhibit A**

**System Impact Study Report – Executive Summary**

Please refer to separate document.





**Exhibit B**

**Cost Summary**

Please refer to separate document.