

PJM Generation Interconnection  
ComEd Facilities Study Report  
For  
Queue Positions #AE2-035 and AD2-172  
Lena 138 kV  
Revision 1

Revision 0: June 2021  
Revision 1: August 2021

## TABLE OF CONTENTS

<b>A.</b>	<b>FACILITIES STUDY INTRODUCTION .....</b>	<b>3</b>
1.	PROJECT DESCRIPTION.....	3
2.	AMENDMENTS TO THE IMPACT STUDY DATA OR IMPACT STUDY RESULTS .....	3
3.	INTERCONNECTION CUSTOMER SUBMITTED MILESTONES SCHEDULE .....	3
4.	SCOPE OF WORK BY INTERCONNECTION CUSTOMER (IC).....	3
5.	DESCRIPTION OF FACILITIES INCLUDED IN THE FACILITIES STUDY .....	3
6.	TOTAL COSTS OF TRANSMISSION OWNER FACILITIES INCLUDED IN FACILITY STUDY .....	3
7.	SUMMARY OF MILESTONE SCHEDULES FOR COMPLETION OF WORK INCLUDED IN FACILITY STUDY .....	3
<b>B.</b>	<b>TRANSMISSION OWNER (COMED) FACILITIES STUDY RESULTS .....</b>	<b>4</b>
1.	TRANSMISSION LINES -NEW.....	4
2.	TRANSMISSION LINES - UPGRADES.....	4
3.	NEW SUBSTATION / SWITCHYARD FACILITIES.....	4
4.	UPGRADES TO EXISTING SUBSTATION / SWITCHYARD FACILITIES.....	4
5.	METERING AND COMMUNICATIONS.....	4
6.	ENVIRONMENTAL, REAL ESTATE, AND PERMITING.....	4
7.	SUMMARY OF RESULTS OF STUDY .....	5
8.	Milestone Schedule .....	5
9.	ASSUMPTIONS IN DEVELOPING COSTS AND SCHEDULES.....	5
<b>C.</b>	<b>APPENDIX.....</b>	<b>7</b>
	Attachment #1: High Level Planning Diagram Depicting Interconnection Facilities and Points of Ownership/Demarcation	

## **A. FACILITIES STUDY INTRODUCTION**

### **1. PROJECT DESCRIPTION**

1.1 High Point Solar LLC, the Interconnection Customer (IC), is proposing to add two additional solar generating facilities to existing Customer owned TSS 969 Eco Grove. The AE2-035 and AD2-172 facilities, located in Stephenson County, Illinois, will interconnect with the ComEd transmission system.

AE2-035 and AD2-172 both have a capability of 50MW with 21MW of the output being recognized by PJM as capacity. The projects will connect to the Customer owned 138kV TSS 969 Eco Grove substation. The point of interconnection with ComEd, the Transmission Owner, will be at ComEd TSS 180 Lena via L11904.

### **2. AMENDMENTS TO THE IMPACT STUDY DATA OR IMPACT STUDY RESULTS**

2.1 The Interconnection Customer's entity name was updated from Acciona Energy USA Global LLC to High Point Solar LLC.

### **3. INTERCONNECTION CUSTOMER SUBMITTED MILESTONES SCHEDULE**

3.1 The schedule which is based upon the assumption that a CPCN (Certificate of Public Convenience and Necessity, from the ICC (Illinois Commerce Commission) will not be required. Additionally, the customer schedule for upgrades to substation (TSS 969) will need to be coordinated with the construction of the interconnection substations (AE2-035 & AD2-172).

### **4. SCOPE OF WORK BY INTERCONNECTION CUSTOMER (IC)**

4.1 Acciona Energy USA Global LLC will build AE2-035, a 50MW capable solar generating facility, and AD2-172, a 50MW capable solar generating facility. Both projects to be connected to TSS 969 Eco Grove

### **5. DESCRIPTION OF FACILITIES INCLUDED IN THE FACILITIES STUDY**

5.1 TSS 969 Eco Grove owned by Acciona Energy USA Global LLC, and TSS 180 Lena owned by ComEd)

### **6. TOTAL COSTS OF TRANSMISSION OWNER FACILITIES INCLUDED IN FACILITY STUDY**

6.1 The estimated total cost of AE2-035 project for network upgrades is **\$170,000**. The developer is ultimately responsible for all ComEd costs incurred on the project.

NOTE: Costs are based on 2020 rates and do not reflect potential increase of labor or material costs.

### **7. SUMMARY OF MILESTONE SCHEDULES FOR COMPLETION OF WORK INCLUDED IN FACILITY STUDY**

Description	Start	Finish
ISA Approval	Day 1	Day 30
Prepare Project Diagram & Specifications	Day 31	Day 85
Project Design	Day 86	Day 166
Material Procurement	Day 86	Day 206
Tie-In Construction at TSS 969	Day 206	Day 266
Acceptance Testing at TSS 969	Day 267	Day 300

The above Milestone Schedule is based on the Interconnection Services Agreement and the Construction Services Agreement (if applicable) to be executed. The schedules are based upon the assumption that the CPCN from the ICC will not be required. The exact Milestone Schedule will be negotiated and determined upon the execution of Construction Services Agreement. ComEd will make every effort to expedite approvals and execution to accommodate the IPP request. However, ComEd is committing to the above schedule.

## **B. TRANSMISSION OWNER (COMED) FACILITIES STUDY RESULTS**

### **1. TRANSMISSION LINES -NEW**

1.1 None.

### **2. TRANSMISSION LINES - UPGRADES**

2.1 None.

### **3. NEW SUBSTATION / SWITCHYARD FACILITIES**

3.1 None.

### **4. UPGRADES TO EXISTING SUBSTATION / SWITCHYARD FACILITIES**

4.1 PJM Network Upgrade N7417- Review and modify L11904 relay settings per new configuration. Customer to provide written test plan and ComEd TG shall provide testing oversight and witness testing.

### **5. METERING AND COMMUNICATIONS**

5.1 None

### **6. ENVIRONMENTAL, REAL ESTATE, AND PERMITTING**

6.1 None

## 7. SUMMARY OF RESULTS OF STUDY

7.1 No Transmission Owner equipment upgrades are required for the addition of AE2-035 and AD2-172 to Customer owned TSS 969 Eco Grove. Relay settings for 138kV L11904 will need to be updated. The estimated total cost of AE2-035 project for network upgrades is **\$170,000**. The developer is ultimately responsible for all ComEd costs incurred on the project.

NOTE: Costs are based on 2020 rates and do not reflect potential increase of labor or material costs. IL sales taxes not reflected in this cost estimate.

## 8. Milestone Schedule

Description	Start	Finish
ISA Approval	Day 1	Day 30
Prepare Project Diagram & Specifications	Day 31	Day 85
Project Design	Day 86	Day 166
Material Procurement	Day 86	Day 206
Tie-In Construction at TSS 969	Day 206	Day 266
Acceptance Testing at TSS 969	Day 267	Day 300

## 9. ASSUMPTIONS IN DEVELOPING COSTS AND SCHEDULES

- 9.1 The ComEd estimate does not include costs to design and construct TSS 969 substation as described in IC scope of work. The Schedule start date is based on ISA/CSA contract being executed by all parties and deposit received.
- 9.2 Cost Estimates assume that work will be performed during normal weekdays and with no overtime.
- 9.3 Transmission line outages for the tap construction have not been identified, but generally are available in spring (March to May) and fall (September to November). These outages are controlled by PJM.
- 9.4 A CPCN from the IC will not be required for installation of ComEd interconnection to the new TSS 969 Eco Grove.
- 9.5 Foundation design assumes typical soil conditions at locations and will be subject to change after soil boring tests.
- 9.6 The IC will be responsible to request and bear the cost for relocation of existing transmission or distribution lines (including structures) that may be required for transmission line crossings, the transport of any large equipment, such as turbines, rotors, turbine structures, cranes, etc.

- 9.7 This Facility Study is time dependent. If the project is not into construction within one year of the issuance, the Facility Study will be void and the project re-studied, requiring completion of a new Facility Study.
- 9.8 IC is assumed to be responsible for obtaining station aux and emergency service power.

C. APPENDIX

Attachment #1: High Level Planning Diagram Depicting Interconnection Facilities and Points of Ownership/Demarcation

**Attachment #1:**

**High Level Planning Diagram Depicting Interconnection Facilities and Points of Ownership/Demarcation**

