

***PJM Generation Interconnection
Queue #Q16
Business Park #1 12kV
6.6MW Capacity
Feasibility/System Impact Study***

575110v3
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Preface

The intent of the feasibility study is to determine a plan, with ballpark cost and construction time estimates, to connect the subject generation interconnection project to the PJM network at a location specified by the Interconnection Customer. As a requirement for interconnection, the Interconnection Customer may be responsible for the cost of constructing: Network Upgrades, which are facility additions, or upgrades to existing facilities, that are needed to maintain the reliability of the PJM system. All facilities required for interconnection of a generation interconnection project must be designed to meet the technical specifications (on PJM web site) for the appropriate transmission owner.

In some instances an interconnection customer may not be responsible for 100% of the identified network upgrade cost because other transmission network uses, e.g. another generation interconnection or merchant transmission upgrade, may also contribute to the need for the same network reinforcement. The possibility of sharing the reinforcement costs with other projects may be identified in the feasibility study, but the actual allocation will be deferred until the impact study is performed.

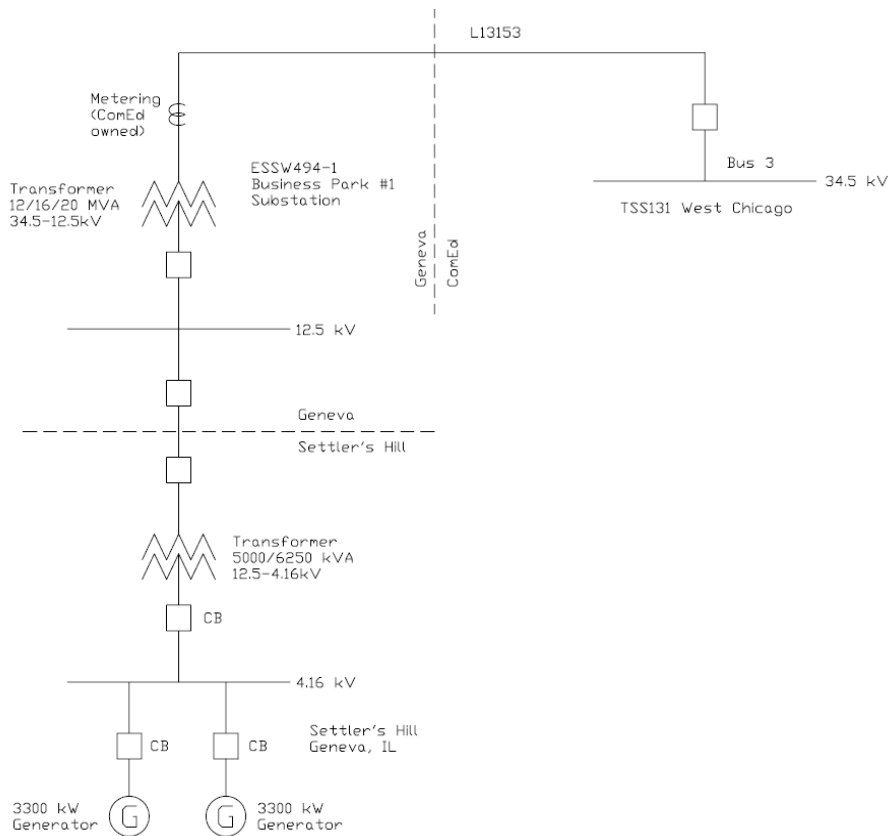
The Feasibility Study estimates do not include the feasibility, cost, or time required to obtain property rights and permits for construction of the required facilities. The project developer is responsible for the right of way, real estate, and construction permit issues. For properties currently owned by Transmission Owners, the costs may be included in the study.

General

Q16 Settler's Hill 12kV is a WM Illinois Renewable Energy, LLC 6.6 MW request for Capacity Interconnection Rights for existing generation located at 1031 East Fabyan Parkway in Batavia, Kane County, IL. Q16, referred to as the "Settler's Hill Project" in this report, is presently connected to ComEd's distribution system through the City of Geneva and operating as a QF under the name of Greene Valley Landfill. Q16 consists of two 3.3 MW, simple cycle, engine - generators fueled by landfill gas (methane). The facility has been in operation for more than 10 years.

Direct Connection Requirements

The Settlers Hill project is presently connected to the ComEd distribution system via a Geneva 12.5 kV feeder and Geneva 34 - 12.5 kV substation. That substation is connected to a ComEd 34 kV feeder and ComEd TSS131 - 34 kV.



Scope of Metering Work

The Settlers Hill Project assumes responsibility for all costs of design and construction of all Communication, Telemetry, SCADA, and Metering per the ComEd and PJM requirements.

Revenue Metering and SCADA Requirements

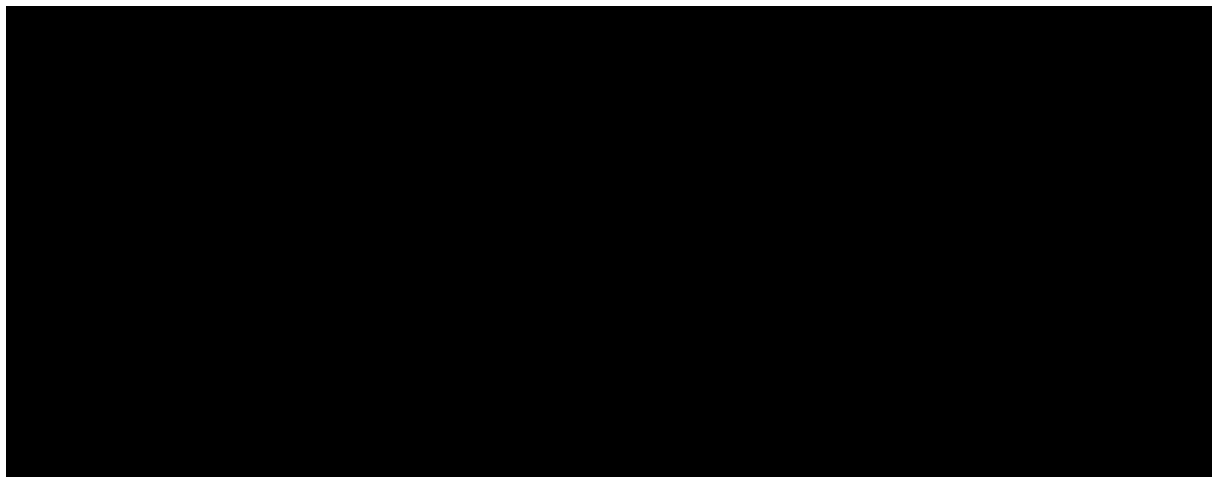
For PJM: The Interconnection Customer will install equipment necessary to provide Revenue Metering (KWH, KVARH) and real time data (KW, KVAR) for IC's generating Resource. See PJM Manuals M-01 and M-14D, and PJM Tariff Section 24.1 to 24.2.

For ComEd: The Interconnection Customer will install equipment necessary to provide bi-directional Revenue Metering (KWH, KVARH) and real time data (KW, KVAR, circuit breaker status, and 12 kV voltage) for IC's generating Resource. See ComEd Applicable Standards available on the PJM website ("TO Standards") – "Exelon Energy Delivery Interconnection Guidelines Generators Greater than 2 MVA and Less than 20 MVA". An RTU needs to be installed per ComEd standards.

http://www.exeloncorp.com/ourcompanies/comed/comedbiz/energy_rates/our_rates_and_prices.htm

ComEd's Cost to Install the Required Metering

The total Order of Magnitude estimated cost for ComEd's installation is \$101,600. The lead-time required for installation of the metering is approximately 12 months.



Loss Factor Charge:

For this project, Q16, the Loss Factor was calculated to be 0%. Therefore under current ComEd system configuration there would be no charges applied to this generator for distribution losses. The Loss Factor is subject to periodic update as system configuration change in the future.

Notes:

1. Optional Settlers Hill Project scope of work: Interconnection Customer may choose to design, procure and install bi-directional revenue metering and SCADA compatible with ComEd requirements. The design, procurement and installation would be subject to approval by ComEd.
2. Settlers Hill Project is required to provide the required class A phone lines for metering and communication requirements. Communication to be continuously monitored by SCADA.
3. Should the Settlers Hill Project choose to communicate all the required data to PJM via the internet, arrangement must be made to assure that PJM will transmit such data to ComEd according to existing protocol.

Network Impacts

The Q16 project was studied as an injection of 6.6MW (Capacity) into the West Chicago substation. Project Q16 was evaluated for compliance with PJM reliability criteria for summer peak conditions in 2011. If the Settlers Hill Project increases the capability of the plant to greater than 6.6MW then the customer (Waste Management Corporation) must re-enter the PJM Queue for re-evaluation. Potential network impacts are as follows:

Generator Deliverability

(Single or N-1 contingencies for the Capacity portion only of the interconnection)

No problems identified.

Multiple Facility Contingency

(Double Circuit Tower Line contingencies were studied for the full energy output. The contingencies of Line with Failed Breaker and Bus Fault will be performed for the Impact Study.)

No problems identified.

Contribution to Previously Identified Overloads

(This project contributes to the following contingency overloads, i.e. "Network Impacts", identified for earlier generation or transmission interconnection projects in the PJM Queue)

None.

Short Circuit

(Summary of impacted circuit breakers)

No problems identified.

New System Reinforcements

None.