

Adding ESS to an Existing DER Interconnection Project

Detailed Procedures

Background

This document contains instructions for submitting an interconnection application in PowerClerk that is intended to add ESS to a DER interconnection project that has an existing, accepted renewable generation interconnection application.

General Information

Per policies contained within the Illinois Admin Code Part 466.125 and Ameren Illinois interconnection policies, modifying an accepted DER interconnection application to add or remove ESS is not allowed due to material modification language in Part 466.125 (c)(1)(C). The procedure outlined in this document provides steps for creating a new PowerClerk interconnection application which adds ESS to the existing project. Leveraging this approach avoids the need to modify the accepted application and the resulting material modification consequences.

ESS Application General Requirements

To qualify for this approach, all requirements listed below must be met.


1. The ESS addition must not increase the AC export capacity of the project.
2. If the ESS addition requires an inverter brand or model change from the equipment specified in the accepted solar application, the proposed change must be approved by Ameren Illinois. This approval must be received before the ESS application is submitted.
3. The ESS operating type must be one of the following two options:
 - a. **Type 1-Nex:** The ESS can only charge from on-site renewable generation. The ESS shall not export to the grid.
 - b. **Type 1-Ex:** The ESS can only charge from on-site renewable generation. The ESS may export to the grid.
4. Any system upgrades assigned to the existing renewable generation application will be considered contingent upgrades for the ESS application. The Interconnection Agreement (IA) for the ESS application will include a stated dependency on the renewable generation project.


PowerClerk Interconnection Application Entries

Specific fields within the PowerClerk interconnection application are noted here along with instruction for data selection / entry.

Applicant Information Section

1. Application Level – Select "Level 2" even if the associated solar application is Level 4.

Application Level * 

Level 2 

Would you like to skip expedited review? (Recommended for RLG/Community Solar and other i

- Yes
 No

Note that if the associated renewable generation application in PowerClerk is in the Pending Study state, the Expedited Review for the ESS application will fail. The ESS application will be held for further review once the associated solar/wind application enters the interconnection study phase.

2. Application Type

Application Type * 

Existing Customer with Generation 


3. Do you seek to install Energy Storage...

Do you seek to install an Energy Storage System (ESS), or batteries as part of this interconnection application to the Ameren Illinois distribution system? *

- Yes
 No

4. Please select the ESS setup that suites this application

Please select the ESS setup that suites this application: *

Add-on ESS to a previously installed/operating customer-generator facility 

5. Project Name

Project Name

Use the same project name that was assigned to the solar/wind application. "ESS" can be appended to the end of the project name.

6. Facility Latitude / Longitude

Facility Latitude *

Facility Longitude *

Enter the same Lat/Long coordinates used on the solar/wind application.

Generator Information Section

1. Total AC System Size (kW)

Total AC System Size (kW): * ?

2. Existing Distributed Generation Information

Existing Generation Energy Source: * ?

Existing Energy Converter Type: *

Existing Energy Production Equipment *

Total Existing Generation Rating (kW) AC: * ?

Set the Total Existing Generation Rating field to the total AC system size for the associated solar/wind application.

Energy Storage System Information Section

Fill out all required information in this section

Documents Section

1. Additional Project Information

Additional Project Information (for example the actual CT/PT part number from the technical specifications) ?

In this field, enter information noting that this application adds ESS to an existing application, and **enter the DER number for the existing application.**

One-Line Diagram Requirements

The one-line diagram submitted with the ESS application should follow these requirements.

1. Meets all requirements noted in the applicable document from this list:
[One-Line / Site Plan Requirements – Remotely Located Generation \(PDF\)](#)
[One-Line / Site Plan Requirements – Behind the Meter 200kW and Greater \(PDF\)](#)
2. Both the ESS equipment as well as all equipment from the existing renewable generation application should be shown on the one-line diagram. The equipment that is being installed by the existing renewable generation application should have a revision cloud / bubble around it with a note to indicate the DER project number that it is part of.
3. After the ESS application has been accepted, the applicant shall provide an updated one-line diagram for the renewable generation project. This one-line should be updated to show all facilities, including the proposed ESS equipment. The ESS equipment should be enclosed in a revision cloud / bubble with a note to indicate the DER project number that it is part of. This updated one-line should be emailed to renewablesillinois@ameren.com