

Section 4 Monthly Report

December 13, 2019

Distributed Generation Interconnection

National Grid Reporting Requirements – Affected System Operator Studies

The Narragansett Electric Company (NECo) is experiencing DG saturation in certain regions and at certain substations that indicate the potential need for an ASO study that would affect three or more DG applications or more than 15 MW of DG capacity in the following 6 months. Below is a list of the specific regions and substations where NECo is experiencing such DG saturation, as well as the actions NECo is taking to prevent, mitigate and prepare for such an occurrence working with its transmission provider New England Power (NEP).

Ongoing ASO Studies

The Attachment 1 has lists of the substations where NEP is currently conducting ASO Studies for groups of applications on behalf of NECO customers. Any future applications for projects over 1 MW connected to these substations will require ASO studies.

Potential ASO Studies for Pending Applications

The below table lists the substations that have the potential need for an ASO study that would affect three or more DG applications or more than 15 MW of DG capacity. Please note that these substations are not part of any of the ongoing ASO studies. Please note the pending applications have not progressed to a stage (20 business day mark after commencement of distribution impact study) where NECO can start ASO assessment.

| Substation Name | Region | Total # of Pending Applications (> 1MW) | Current DG Penetration Level |
|------------------------|---------------|---|-------------------------------------|
| WOOD RIVER SUBSTATION | Coastal | 2 | >15MW |
| KENYON SUBSTATION | Coastal | 4 | >15MW |
| KENT COUNTY SUBSTATION | Coastal | 3 | >15MW |

Action Plan/Next Steps

NECo is taking the following actions to prevent, mitigate, and prepare for such an occurrence for the above applications:

- NECo will continue to submit GNFs for all pre-ISA projects as soon as they reach the 20 business day mark during the distribution system impact study stage.
- For the substation listed above, NECo will provide NEP, the list of pending applications for NEP to consider as part of its initial assessment in coordination with the ISO-NE as to what level of ASO study will be required.
- NECo will send notifications to affected customers per Section 1 of the Reporting Requirements.

Potential ASO Studies for Future Applications

The below table lists the substations where ASO studies will be required for any future application connecting to that substation. Currently, there are no pending applications at these substations requiring GNF approval. However, future applications to these substations for over 1 MW will require ASO studies due to DG saturation at these substations.

| Substation Name | Region | Total # of Pending Applications (> 1MW) | Current DG Penetration Level |
|--------------------------|---------------|---|-------------------------------------|
| WEST KINGSTON SUBSTATION | Coastal | 0 | Between 5MW and 15MW |
| DAVISVILLE SUBSTATION | Coastal | 0 | Between 5MW and 15MW |

Action Plan/Next Step

NECo is taking the following actions to prevent, mitigate, and prepare for such an occurrence for the above applications.

- NECo will publish on its website (<https://ngus.force.com/s/article/Rhode-Island-Transmission-System-Impact-Analysis-RI-Cluster-Study-Update>), the above list of substations that will require ASO studies for future applications.
- In all future pre-application reports in these areas, NECo will notify the proposed project of the status of a likely ASO study in the future if the request may be served from one of the substations mentioned above.