

# PSEG LONG ISLAND UPDATE ON HOSTING CAPACITY MAP ENHANCEMENTS

MAY 27, 2021 - INTERCONNECTION WORKING  
GROUP MEETING



**PSEG** LONG  
ISLAND

*We make things work for you.*

# Stage 2 Quarterly Update

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- Stage 2 Quarterly Updates launched in early May
- Improvements made since 1<sup>st</sup> Quarter.
  - Recloser Delay – Identified circuits where the recloser delay is implemented.
  - Filtering Capabilities - Ability to filter by providing range for hosting capacity and be able to see where on the map those circuits are modeled.
  - Ultimate Max - Provides estimated MW capacity that can be accommodated on circuit without triggering major upgrades such as Bank replacement, feeder reconductoring etc.
- Next update to Stage 2 Hosting Capacity Maps – By mid September

# Hosting Capacity Ultimate Max

- Ultimate max estimates the amount of capacity that may be interconnected without triggering major upgrades (ex. bank replacement)

*- Captures Bank limitation (85% of capacity) and thermal limitation*

The screenshot displays a software window with the following data:

| Feeder Information |               |
|--------------------|---------------|
| Feeder ID:         | 7995          |
| Op. Div:           | QUEENS/NASSAU |
| Nominal Voltage:   | 13.20 kW      |
| Min HC:            | 0.00 MW       |
| Max HC:            | 0.83 MW       |
| Ultimate Max HC:   | 5.06 MW       |
| DG Connected:      | 0.67 MW       |
| DG In Queue:       | 0.10 MW       |
| Recloser Delay:    | NO            |

  

| Substation Information     |           |
|----------------------------|-----------|
| Substation ID:             | 9273      |
| Bus ID:                    | 4047      |
| Bank Name Plate Rating:    | 28.00 MVA |
| Bank Peak Load:            | 24.29 MW  |
| Bus DG Connected:          | 1.22 MW   |
| Bus DG Queue:              | 0.24 MW   |
| Substation 3VO Protection: | No        |

  

| Last Data Refresh |           |
|-------------------|-----------|
| HC Analysis:      | 3/23/2021 |

Zoom to

# Stage 3 Hosting Capacity Maps

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- Stage 3 will provide location specific hosting capacity available on the feeder.
- Substation analysis/limitations will be conducted independently of EPRI Drive Tool
- New Information to be provided on Stage 3 Maps in reference to Stage 2
  - “Load Tap Changer” Upgrade requirements will be incorporated in hosting capacity numbers
  - Locations where 3VO Protection have been implemented
- Stage 3 Hosting Capacity – Planned Launch Date – End of 2021

# PSEGLI Stage 3 HC Information

## FEEDER LEVEL DATA

- Random Feeder Name
- Operating Voltage
- Local Minimum HC
- Local Max HC
- Feeder DG Connected
- Feeder DG in Queue
- Recloser Delay
- Ultimate Max
- HC Refresh Date
- Queue Data Refresh Date

## SUBSTATION LEVEL DATA

- Random Substation Name
- Random Bus ID
- Substation DG Connected
- Substation DG Queue
- Substation Peak Load
- Substation Nameplate Rating
- 3VO Protection Status
- LTC Upgrade Requirement

# Conclusion

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- Incorporated industry feedback from Feb 2021 IWG meeting and launched stage 2 updates by May 2021
- Plan to complete stage 3 by end of 2021
- Continuous focus and commitment to HCM enhancements to support DER interconnection