STATE OF CONNECTICUT

PUBLIC UTILITIES REGULATORY AUTHORITY

CONNECTICUT DISTRIBUTED GENERATION TECHNICAL WORKING GROUP

Meeting Minutes
Tuesday, June 22, 2021
9:00 AM – 12:00 PM

9:00 AM – 9:05 AM Introduction and Adoption of Meeting Minutes

Attendees:

- Andy Mayshar, Con Ed Clean Energy Business
- Jean-Paul LaMarche, Clean Focus (Greenskies)
- Carl Nowiszewski, Eversource
- David A Ferrante, Eversource
- Mark Kirschbaum, UI
- Joseph Folz, UI
- Joseph Marranca, UI
- Brad Marszalkowski, ISO NE
- Russell King, CIEC
- Joseph Debs, Eversource
- Elder Romero, UI
- Tim Young
- Erik Anderson
- Steve Broyer
- Michael DiPanfilo
- Rodney Galton
- Mike Trahan
- Chris Lobdell
- Ion Balan
- Brian Murtha

Facilitators:

- Zak Alexander, PURA, Zachary.Alexander@ct.gov
- Lauren Bergman, PURA, Lauren.Bergman@ct.gov

9:05 AM – 9:45 AM EDC Presentations on Screens

- Joint Eversource/UI Presentation
- First Screen – compare transformer rating to generating capacity
    - Fail if transformer cannot handle additional load
- Second Screen – shared secondary, not to exceed 20 kVA
    - Usually fail due to long distance

- Third Screen – not to exceed 4 kW for single phase inverter connection
- Fourth Screen – load flow analysis, not to exceed +/- 5% of voltage
    - Was changed from 3% to 5%
- For distance issue, Eversource and UI still working on screen
    - Depends on type of cable
    - Higher voltage needed for longer distances
    - Usually an issue in rural areas
    - Helpful to have information from developers on distance from DER to road
- Looking to simplify screens for DERs 25-200 kW
    - Using hosting capacity maps
- Hosting capacity based on load flow, does not include short circuit analysis
- For >200 kW, automation is more difficult, impact study required
- New Screen – time domain study
    - Flag risk of islanding and transient over voltage
- When screens fail, change inverter settings or use surge arrestor
- Many transformers are 25K
    - Seek to align DER with transformers
- Outstanding Questions
    - What to do if project fails screens? What upgrades are needed?
    - What are costs and needs for funding? Ratepayer dollars or application fees?

9:45 AM – 10:30 AM Follow Up on IEEE-1547 2018 and MA Adoption

- MA report has 1547 interim guidelines, developed with ISO-NE
    - Contains ride through settings
- Need to specify types of inverters needed
    - Waiting on inverter manufacturers for certification
- Eversource ready to adopt MA document as is
- UI still reviewing document
- Once document is finalized, resume discussion and present to PURA

10:30 AM – 12:00 PM Discussion of DER Location

- Issues:
    - Moving development closer to load
    - Affordable land vs distance to load centers
- SMART program in MA used to incentivize certain locations
    - Administered by third-party
    - Adders for different types of land uses
    - No geographic restrictions – incentivized by land use, did not push for projects in specific area
- Need buy-in from DEEP and PURA

- General process to explore:
    - Explore issues/reasons for disconnect between development and load
    - Identify best practices to incentivize development
    - Discuss technical solutions
- Also a policy discussion – need to identify policy reasons for disconnect

12:00 PM – 1:00 PM **Discuss Docket 17-12-03re06 requirement that applicants provide proof of lease/ownership contemporaneously with interconnection application.**

- New Matters/Open Discussion

- Issue of agreements between land owner and developer
    - There is risk involved in leasing/owning without option to install DER
- Form considered for use with interconnection application to provide proof of lease/ownership
- UI sister utilities in NY use agreement
    - Not required for under 50 kW
    - Site control required over 50 kW
- All in agreement to require site control agreement form
    - to be submitted along with interconnection application
    - Not required for residential applications
- Next Steps:
    - Create draft form, based on NY Standard Site Control Form (Zak to draft)
    - Circulate, collect feedback, update draft form
    - Submit to Authority