CONNECTICUT DISTRIBUTED GENERATION TECHNICAL WORKING GROUP

MEETING MINUTES

Tuesday, April 20, 2021

9:00 AM – 11:15 PM

Attendees:

* Andy Mayshar, Con Ed Clean Energy Business
* Jean-Paul LaMarche, Clean Focus (Greenskies)
* Carl Nowiszewski, Eversource
* David A Ferrante, Eversource
* Joseph Debs, Eversource
* Mark Kirschbaum, UI
* Joseph Folz, UI
* Elder Romero, UI
* Joseph Marranca, UI
* Brad Marszalkowski, ISO NE
* JR Viglione, OCC
* Ion Balan, UI

Facilitators:

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

**Not in Attendance**

* Amanda De Vito Trinsey, CIEC/Couch White, LLP

.Meeting Schedule and Minute Keeping

* Monday, May 24, 2021
* *Jean-Paul LaMarche* *or designee to take minutes*
* Tuesday, June 22, 2021
* *David Ferrante or designee to take minutes*
* Tuesday, July 20, 2021
* *Joseph Folz or designee to take minutes*
* Tuesday, August 24, 2021
* *Amanda De Vito Trinsey or designee to take minutes*
1. **Previous Meeting Minutes Reviewed & Approved**
2. **Eversource Presentation on Hosting Capacity Maps**

*Presented by Joseph Debs*

* Eversource’s current & future Hosting Maps.
* Cautioned that hosting maps may not always reflect current queue and should only be used for preliminary guidance
* Provide ability to establish reasonable expectation of connection at a particular site, i.e. what interconnection will look like before you apply
* Quick, easy way to evaluate sites for interconnection
* Disclaimer spells out limitations of capacity maps
* Gather all information about all interconnections and run scenario of hosting capacity maps monthly
* Estimate maximum hosting capacity without significant upgrades
* Hosting capacity maps updated once a month
* One-month lag between new generation added and what’s shown on map
* For informational purposes, does not provide detailed explanation of upgrades
* Information provided:
* Circuit, voltage, substation, hosting capacity
* Limitations
* Does not secure queue position
* Does not include all voltage and thermal scenarios
* Does not include protection and control limitations
* Do not all support reverse flow – can change if aware of issue
* Does not consider temporary overvoltage of risk of islanding
* Does not provide equipment upgrade information
* Impact study needed to provide information on equipment upgrade
* Hosting capacity is dependent on load in an area
* Even if within the capacity limits, may still need small upgrades
* Need to consider the availability of overhead lines – additional challenges when lines are underground
* Constraints can occur in circuit or substation, or both
* Working on user manual and log in to help users employ the maps and track usage
* Other upgrades include more granular data, information on queue, measuring tool
1. **UI Presentation on Hosting Capacity Maps**

*Presented by Elder Romero*

* UI has two hosting capacity maps – one for residential PV (secondary lines) and a beta version of a map for primary lines (covering only a single substation)
* Demonstrated the secondary map and the ability to search on a Residential Account to determine if an upgrade might be required
* Presented info on Avangrid hosting maps in New York
* Cautioned that hosting maps may not always reflect current que and should only be used for preliminary guidance
* Over 95% of interconnection applications are for residential rooftop PV
* Use ESRI mapping
* Testing ESRI, kevala, and EPRI for new mapping capabilities
* Public facing map has legend for whether interconnections are possible at a specific location
* Provides enough granularity to search by address
* Includes measurement tool, can draw on map
* Eligibility form to allow developer to input details of proposed system, obtain more detailed response on what is allowed
* Provides basic information before proceeding with application
* Circuit models were updated once a year, DG updated more regularly
* DER data updated quarterly
* Primary hosting capacity maps are still a work in progress but UI is hoping to leverage work done by sister utilities in New York to increase the speed of deployment
1. **ISO-NE Presentation on IEEE-1547**

*Presented by Brad Marszalkowski*

* Currently inverter manufacturers products don’t meet this standard – implementation timelines may change based on when manufacturers can meet these requirements
* Indicated that a common standard for all ISO New England territory was desired
* The developers agreed that a common standard was desirable
* IEEE-1547 includes guidelines on connecting DERs to distribution network
* Critical to the inclusion of DERs
* Behind the meter solar is one of largest sources in ISO-NE
* PV mostly in MA, good amount in RI and CT
* Important to study system-wide
* Most recent version is 2018
* Islanding not big issue if you have shale trip set up correctly
* MA TSRG working on implementation standards for NE
1. **Discussion on IEEE-1547 Presentation**
* Multiple developers support standardized guidelines for NE
* Connecticut could adopt the standards being developed by MA TSRG and ISO
* First item is the bulk system support implementation, ride through
* Try to stick with MA’s timeline for implementation
* Similar standards across states helps utilities who work across multiple states
* ISO NE wants NE-wide implementation of 1547
1. **Open Discussion**
* Developer feedback on hosting map presentations positive
* Most important is keeping maps up to date
* Including queue is a positive change
* Future discussions: Implementation of IEEE-1547
* Highly detailed and technical
* Difficult challenge, big effort
* What system is needed to work through IEEE-1547 implementation
* How to leverage best practices from MA
* Worth investigating MA’s approach to IEEE-1547
* IEEE-1547 governs standards
* MA is working on process for implementing IEEE-1547
* Policy group needs to take into account shifting policies to best implement standards
* Large amount of PV interconnecting in low load areas leads to congestion
* Implementation/process/policy issues that will not be addressed by IEEE-1547