

CONNECTICUT DISTRIBUTED GENERATION TECHNICAL WORKING GROUP

MEETING MINUTES

Monday, March 22, 2021

9:00 AM – 11:15 PM

**Introduction**

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
* Amanda De Vito Trinsey, CIEC/Couch White, LLP
* Brad Marszalkowski, ISO NE
* Kerry Schlichting, ISO NE
* Mike Trahan, Solar Connecticut
* JR Viglione, OCC

Facilitators:

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

Joe Folz was identified as UI’s primary representative and David Ferrante was identified as Eversource’s primary representative.

**Review Meeting Process and Schedule**

Process

* Meeting Frequency
* Tracking of Action Items
* Website Information

Meeting Schedule and Minute Keeping

* Tuesday, April 20, 2021
* *Andy Mayshar or designee to take minutes*
* 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*

*The person responsible for taking minutes may bring another person for assistance in taking minutes. Please send minutes to Zak or Lauren.*

**Discuss Priority of Topics**

Pre-Identified Priority Discussion Topics**:**

* Conduct review of interconnection guidelines and technical criteria/screens
* Monitor IEEE-1547 and identify areas that need investigation
* Continue to evaluate ways to improve hosting capacity maps
* Identify ways to establish a formal technical regional working group
* Begin to consider specific cybersecurity requirements

Discussion:

* Top 2 priorities
	+ Conduct review of interconnection guidelines and technical criteria/screens
	+ Continue to evaluate ways to improve hosting capacity maps
* New topic – potential implementation of a public queue of DER projects
* Include discussions of what other states have done successfully for each topic
* Communication between technical and policy working groups is critical

**Technical Discussion: Conduct** **review of interconnection guidelines and technical criteria/screens**

* Interconnection Guidelines and Technical Criteria/Screens
	+ Multiple parties expressed desire for more automated process
		- Automate forms and screens in the application process
		- Use hosting capacity maps to automate process
	+ Service line and transformer (capacity) are limiting factors for implementing new DERs
	+ High volume of residential solar PV applications
		- Capacity limits a concern
		- New transformers/equipment needed when capacity limits reached
	+ Screens may need updating; currently based on FERC, rules of thumb about how much generation on circuit, calculations to determine pass/fail
	+ For large systems, screens are more complicated than residential
* Hosting Capacity Maps
	+ Pros: GIS format is helpful and user friendly for developers
	+ Needs: developers would like access to data behind map, regular updates
		- Eversource updates monthly
		- UI updates quarterly
	+ Goals: consistency among maps, in layout if not in back-end software, allow for some self-service among developers
	+ EDCs to bring internal mapping personnel to upcoming meeting to discuss current mapping resources and potential changes to systems
	+ Hosting capacity maps and assumptions need to be updated for future technology
		- Have maps geared towards residential PV due to high application volume
		- Assumptions based on averages for existing systems, but criteria will likely change with changing technology, e.g., electric vehicles.
* Comparison to other jurisdictions in the region
	+ Interest from multiple parties in adopting successful practices from other states
	+ MA and NY working on similar challenges
	+ Massachusetts has similar working group – MA TSRG
		- Approximately one year ahead of CT in IEEE 1547-2018 implementation
		- Interest in inviting a MA TSRG member to meeting to provide update
	+ MA TSRG 1547 Subgroup
		- Working on new 1547-2018 document
		- Goal to have applications filed after Jan 1, 2022 subject to new requirements and, subject to availability, require certified inverters by summer 2022 (no retroactive requirements)
		- Current challenge is certification because labs are backed up, will not impose new requirements on certified inverters until feasible
		- Upgraded inverters can help with capacity issues but many projects will still need to transformer upgrades/replacements
		- ISO representative to give presentation at upcoming meeting
* Public Queue for DER Projects
	+ Goal: help developers with cost sharing
	+ Sharing certain information may be a concern for developers
		- Developers to collect information from other developers regarding what information they would be willing to share and what would be helpful
	+ Maine public utilities posts updates
		- [Central Maine Power MPUC Chapter 324 Interconnection Project List](https://www.cmpco.com/wps/portal/cmp/networksfooter/suppliersandpartners/servicesandresources/interconnection/%21ut/p/z1/tZNLc4IwEMc_Sw8cMUEeQm-MtVpH-hiLPC5OjAHiQIIhavvtG-qhY0elHprTZrP_bPa3G5CCGKQM7WmOJOUMlWqfpM7SNILRxBrCZzewPPhmmbNwPF7AR9sE0dWAVxOkN-lf5lNTBVij94kxNo3p4G96eGH5sEu_AClIMZO1LECCqxrlYvlDQIMZ55IIDTa7ui4pEQ1i6xoJyZSpvETsKSatU5CG74SyNUiZkmDOGMHtJW2GGtM1SBzsepljWLpDLE-3UObprmcMdMNycd_rI9t1nA6i9pHolYKnXSWrnvZFMAxy9SwkC52yjIP4XCkg_l2K0tLNdpv6ChpXZx8SxP9ELWq5dczWacCZ4emClSjYg0spFkMIoj0lBxAyLir1HeY39nLy3Y685KvjX_LZynQVd0EyIojo7YRyF1LWzb0GNXg4HHo553lJephXGjwnKXijmJ9GgroKw7ByzU89TVzpPW3svFo-zEjk3919AcKZSZQ%21/?1dmy&current=true&urile=wcm%3apath%3a%2Fcmpagr_suppliersandpartners%2Fsuppliersandpartners%2Fnc_servicesandresources%2Finterconnection%2Fch-324-interconnection-project-list)
	+ CA and NV also share updates:
		- <https://ltmdrpep.sce.com/drpep/>
* Cyber Security
	+ Concern with distributed generation hardware/firmware/software – many devices are connected to internet, but not securely
	+ FERC Order 2222 allows DERs to be aggregated to participate in markets
		- Communication links between distribution companies and ISO
		- Need cyber security initiatives
		- DERs most vulnerable at customer end point

Action Items:

1. EDCs to provide information on hosting capacity maps
	1. Bring in hosting capacity map personnel to provide overview
	2. Eversource to discuss mapping in other footprint states (MA, NH)
2. Developers to collect information from other developers on public queue
	1. What information are they comfortable sharing?
	2. What information would be helpful?
3. Brad Marszalkowski (ISO) to develop presentation for the group
	1. Differences between the new 1547 document and the current standard
	2. New inverter features
4. PURA facilitators to coordinate with MA TSRG member to present to the group regarding IEEE-1547