Massachusetts Technical Standards Review Group (TSRG)
Meeting Minutes
June 24, 2020

Attendees:

Mike Brigandi
John Bonazoli
Gabe DPU
Amy Mcguire - DOER
Rob Davis
Anas Rifa - NGrid
Greg Hunt - zero Point Development
Jay Fundling - Eversource
Andy Mashar - Con Edison Solutions
John Rickler MA Megawatts
Mike Porcaro - NGrid
Nachem Sadan - Grid Edge Networks
Paul Krell - Unitil
Sean Diamond - National grid Customer
Tony Moreale - LIG Consultants
Brett Jacobson - Eversrouce
Tim Roughan - National Grid
Adam Houghton - Control Point Technologies
Bowenw - Marten Bowen - Metering test Eversource
Brian Ritzinger - DPU
Devon MarcAurele - Eversource
Gerry Bingham - DOER
Jeannie Amber - Eversoruce
Jeremy Kites - Unitil
John Mirandette - DOER
Will Lauwers - DOER Policy Team
Justin Woodard - National
Mike Coddington -
Rob Davis - Eversource
Ryan Raynville - NOSC
Shakir - Eversource
Mike Coddington - ENREL
Russ Aney - Avid Solar
Babak enayati - National Grid
Mrinmayee Kale - Borrego Solar
Kavita Ravi
Andrea Belov
Doug Denybrown -
Mike Kocsmiersky - Spirit Solar
Kelsey Fiorri - Nexamp
Mrunmayee Gujar - Nexamp
Steven Rymsha - Sunrun

1) **National Grid presented an update on their PV facilities**

- Presentation available on TSRG website
- The main theme was an evolution away from the idea of 'Interconnecting' DG and into 'Integration of DG.
- National Grid is working on leveraging Smart Inverter functionalities to increase hosting capacity.
- Results of EPRI analysis assuming all factors are equally important shows Volt/VAR as the highest scoring reactive power mode on a 10 point index.
- NGrid will likely need to look into this in more detail as part of IEEE 1547-2018 adoption plans.

2) **DPU 19-55 update**

- Brian Ritzinger gave an update on the D.P.U. 19-55 docket
- There was a hearing officer memo that was issued on May 14th.
  - Lays out initial 10 topics over all discussions that the department facilitated in 2019 and 2020
  - 3 orders are expected
    1. ASO
    2. ESS
    3. Management of high volume queues
  - Intention of the Department to hold two tech conferences in the fall.
    1. 1547 - TSRG
    2. Cost allocation - proposals were submitted.
  - ESS topic upcoming - deadlines laid out through october
- Others topics to be discussed later
  - Timeframes
  - TEM
  - Qualified facilities - Order - Discussed how the department had opened a docket that is now on hold. Addressed whether QF's be subject to interconnection tariff. Based on directives department (A&F) reference to sept 2019 FERC PURPA 1975 NOPR. If FERC approved this then the department would need amend how they are handling QF's
- Disco's DPU 17-54 was suspended but the dept. wanted to provide guidance on QF interconnection. Based on findings grant temp exceptions to regulations governing will be extended. DISCO's will connect according to the rules of the Interconnection Tariff.

3) **IEEE 1547 subcommittee update** –
    - Progress to Date
    - **Recently Assigned as subgroup for 19-55**
        - Glide Path - When may DER's meet new 1547 and ul1741 and when Shall DER's meet
        - 1547.1 has been published in May 2020
        - New UL1741 will be published in August timeline
        - Communication with The Grid -
    - **Concerns around ability to model newly listed inverters**
        - Mike B brought up that he was worried that the effort to overcome the modeling issues is not deliberate enough.
        - Saw a huge disconnect between Samer's presentation on what Inverters are capable of and Utility's ability to study them.
        - What is the plan to be able to either push Inverter mfr's to produce models we need OR develop internal PSCAD study capability?
        - Biggest critical path item is overcoming modeling challenges
        - Suggestion by Mike Coddington to Invite Leads from Software companies to come to the table and discuss these issues in order to make sure they understand the full extent of the impact of Utilities inability to model new 1547.1 listed inverters
        - Also suggested to write an open letter to major industry stakeholders that comes from the policy makers
            - Brian from DPU - will not commit but will take this back to chair nelson on whether they could compose such a letter to inverter manufacturers and software vendors with the intent to spark action.
        - Tim Roughan suggests taking the lead on the software and making it open source. Someone needs to take the lead here.
        - Mike Coddington - it would be ideal if we could develop a generic model for smart inverters but the dynamic transient response may be inaccurate due to nuances between models.
        - Babak - Thinks we are missing a piece here. Models are available including mfr's have modeled the detailed dynamic behavior in Open DSS and matlab simulink. The disconnect is this is not available in software readily used by utilities.
        - Can the TSRG host a discussion with some of the software developers and Inverter manufacturers to have a discussion
4) Simplified Screen discussion: The EDC's presented what they have discussed as an update to the Simplified Screens.

- The flow diagram and notes are available on the TSRG website (note: this is not a final proposal. It is a draft of what is being discussed.