



DER process for participation in Capacity auctions

DISRS

December 4, 2023

This represents PJM's draft approach. This will change and include more details for full implementation.

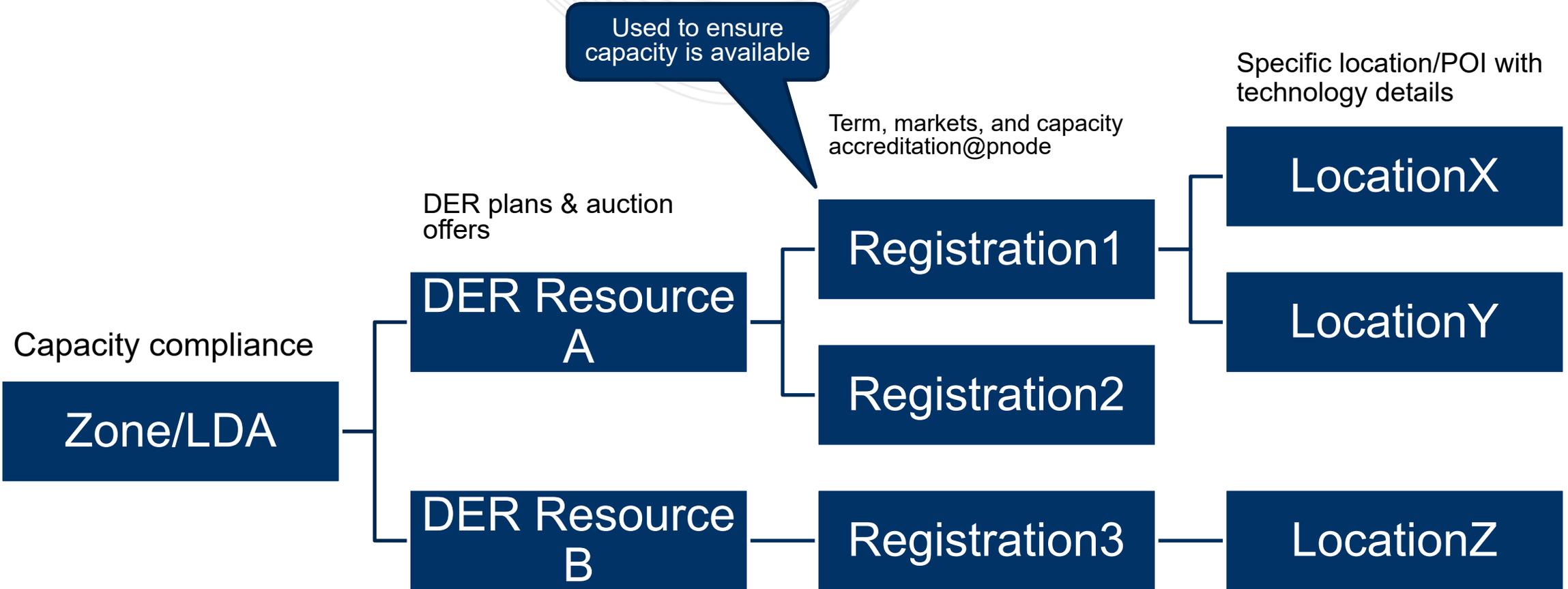


Earliest DER activity for capacity market participation is submission of DER plan

- DR – Demand Response, reduces load at POI (EDC account number). Does not participate in the market at times when there are injections onto the distribution system.
- DRwI – DR with injections (same as DR but will participate in the wholesale market with both load reductions and injections)
- DG – Distributed Generation that interconnects through the State process (does not go through the PJM queue)

PJM plans to standardize across models

- Location = Component DER. For DR related activity this is the EDC account number for the POI. For DG, we need to determine best reference to avoid any confusion. (EDC 15 day review process)
- Registration = DER Aggregation. One of more locations at the same pnode. Identifies the markets, time and amount for participations. (EDC 45 day review process). May have multiple registrations at same pnode.
- DER Resource = DER Capacity Resource. One or more registrations in the same LDA/Zone. Identifies “resource” that will offer into the capacity market.



| | MPOR | MSOC |
|--------------|---------------------------------|---------------------------------|
| DR | Not applicable | Not applicable |
| DRwInjection | Injection MW by technology type | Injection MW by technology type |
| DG | MW by technology type | MW by technology type |

DER Resources do not have must offer obligation in the capacity market

DER Plans consist of Planned and/or Existing DER

| Existing | Planned |
|--|--|
| <ul style="list-style-type: none"> I. Currently have capability to provide capacity and will provide the capability for DY of RPM Auction II. (tbd) Existing MWs based on pre-registrations in Capacity Exchange. Pre-registrations are based on current registrations III. No Credit Requirement | <ul style="list-style-type: none"> I. Do not currently have capability to provide capacity, but is scheduled to be capable of providing capacity on or before start of DY II. Location not registered III. Credit Requirement is Pre-Clearing BRA Credit Rate * Number of Planned MWs |

DER Provider is required to provide Officer Certification that MWs will be delivered in the DY (similar to DR Plan)

| | | | Existing | Planned | Total |
|--------------------|----------|------------|----------|-----------|-----------|
| RPM DER Resource | Zone/LDA | Technology | ICAP(MW) | ICAP (MW) | ICAP (MW) |
| DR | PECO | na | 10 | 10 | 20 |
| DR_Injection_Solar | PECO | Solar | 0 | 5 | 5 |
| DR_Injection_CT | PECO | CT | 0 | 1 | 1 |
| DG_Solar | PECO | Solar | 7 | 15 | 22 |

This is work in progress and focused on most straight forward way to administer for all parties.

SME/Presenter:
Pete Langbein
Peter.Langbein@pjm.com

**2222 implementation – DER plans for capacity
auction**



Member Hotline

(610) 666 – 8980

(866) 400 – 8980

custsvc@pjm.com

**PROTECT THE
POWER GRID
THINK BEFORE
YOU CLICK!**



Be alert to
malicious
phishing emails.

Report suspicious email activity to PJM.
(610) 666-2244 / it_ops_ctr_shift@pjm.com

