Distributed Energy Resource Subcommittee Proposed changes to clarify participation rules

MRC

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- Distributed Energy Resource have opportunity to:
  - reduce load as BtMG or as a DR resource and inject power (after reducing all load) with appropriate interconnection agreement
  - Operate as normal "front of the meter" generator with appropriate interconnection agreement
- Existing rules are not clear in the manuals
- "On-Site Generator" definition in DR section inconsistent in tariff sections and could be more clear

- Clarify existing rules for market participants
  - DER can participate as DR and inject power (with proper interconnection agreement) today
    - Load reductions modelled as DR resource and subject to existing DR rules
    - Injections modelled as a generator and subject to existing generation rules
- Clarify existing On-Site Generator definition (in definition section), eliminate On-Site Generator definition in Emergency/Pre-Emergency section, use On-Site Generator term consistently (not On Site Generator or On Site Generation).

DERS work continues, this may not be end state

- OA/OATT - DEFINITIONS, 3.3A.7, 8.2
- Manual 11 - 10.2
- Manual 14D - 4.2

Change from first read based on DERS comment for clarification

- Generators that will also participate as PJM demand response resources and that have PJM approved interconnection rights to inject power must provide Instantaneous Net (+/-) MW and MVAR at the point of interconnection and Instantaneous Net (+/-) MW and MVAR ~~for each unit~~, measured on the low-side of generator step-up transformer at a point where it does not include associated load served by the generator.
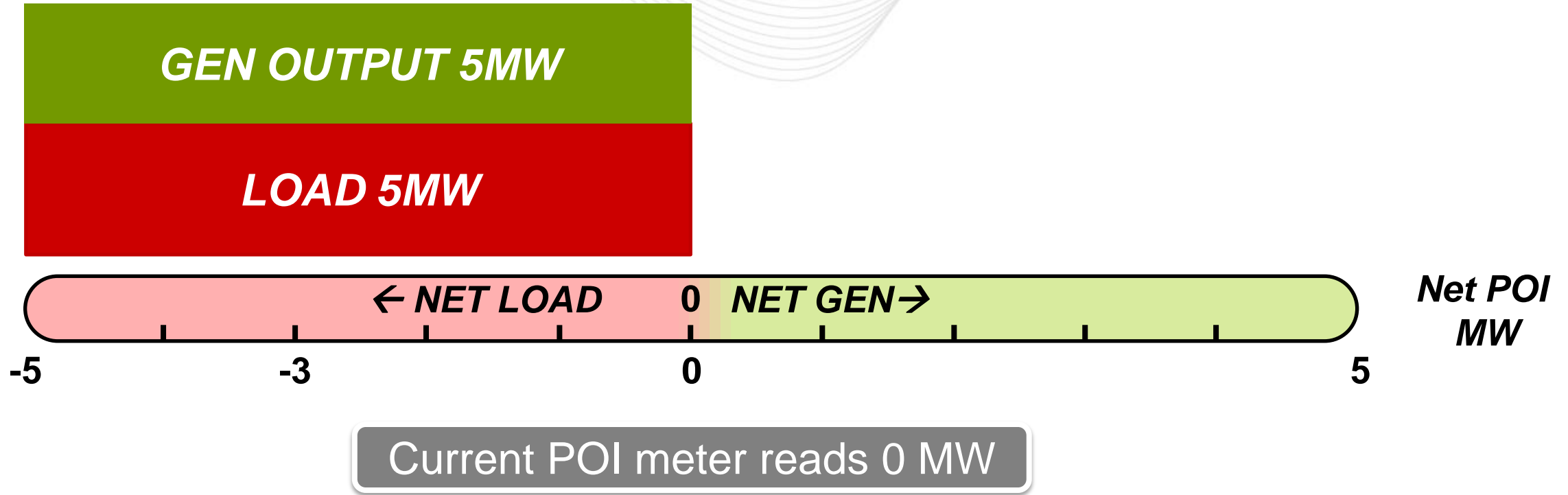
Demand Response and Generation at the same site

Utility grid

POI

M

M

GEN
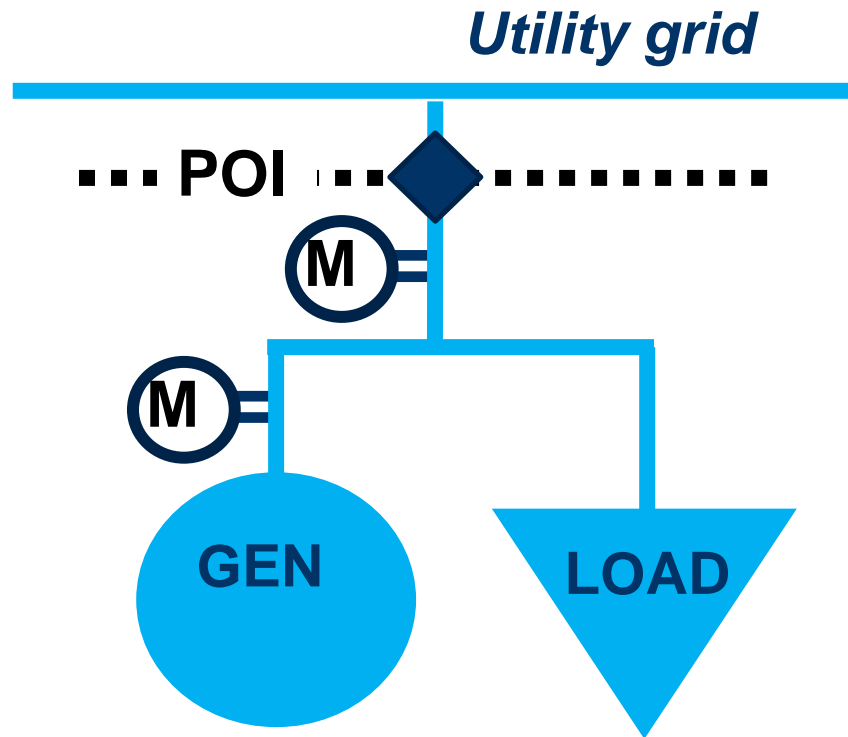
LOAD

- Generator = 10 MW
- MFO = 10 MW
  - Max Facility Output
- Peak Load = 5 MW
- Generator CIR = 4 MW
  - Capacity Interconnection Rights

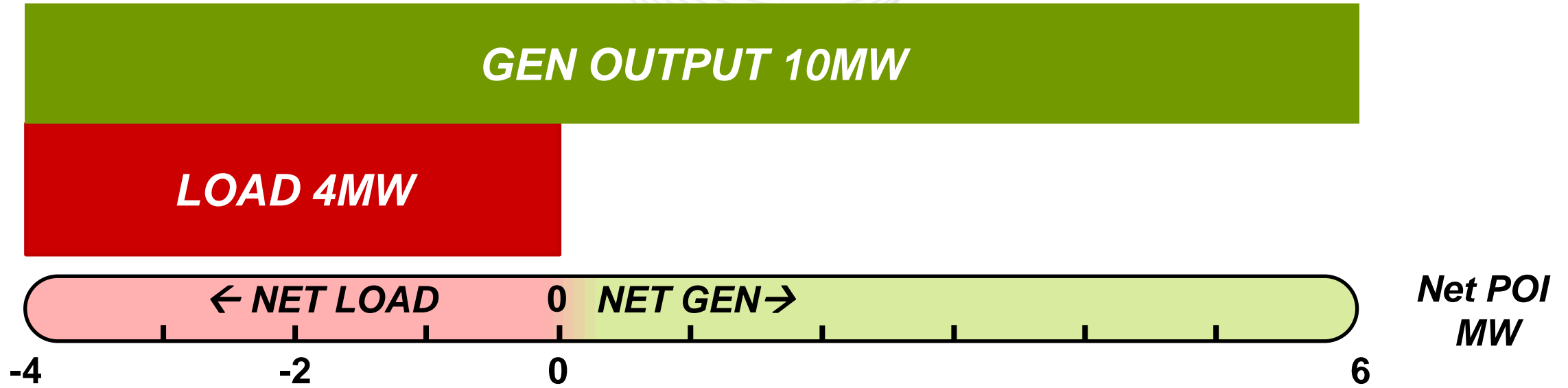**Generator went through New Services Queue to obtain either ISA or WMPA**

GEN OUTPUT 5MW

LOAD 5MW

← NET LOAD 0 NET GEN →

Net POI MW

-5   -3   0   5

Current POI meter reads 0 MW

May be eligible for 5 MW of energy payment for DR resource load reduction

GEN OUTPUT 10MW

LOAD 4MW

← NET LOAD   0   NET GEN→
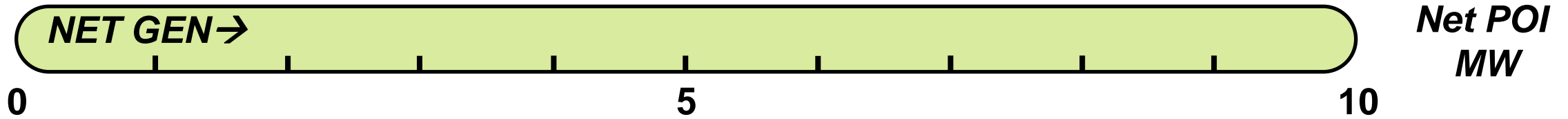
Net POI MW

-4   -2   0   6

Current POI meter reads +6 MW

Paid for 6 MW as Gen resource, not eligible for DR revenue if operated for export (considered part of "normal operations")

GEN OUTPUT 10MW

Load = 0

NET GEN→

Net POI MW

0   5   10

Current POI meter reads +10 MW

Paid for 10 MW as Gen resource, No load at the facility