



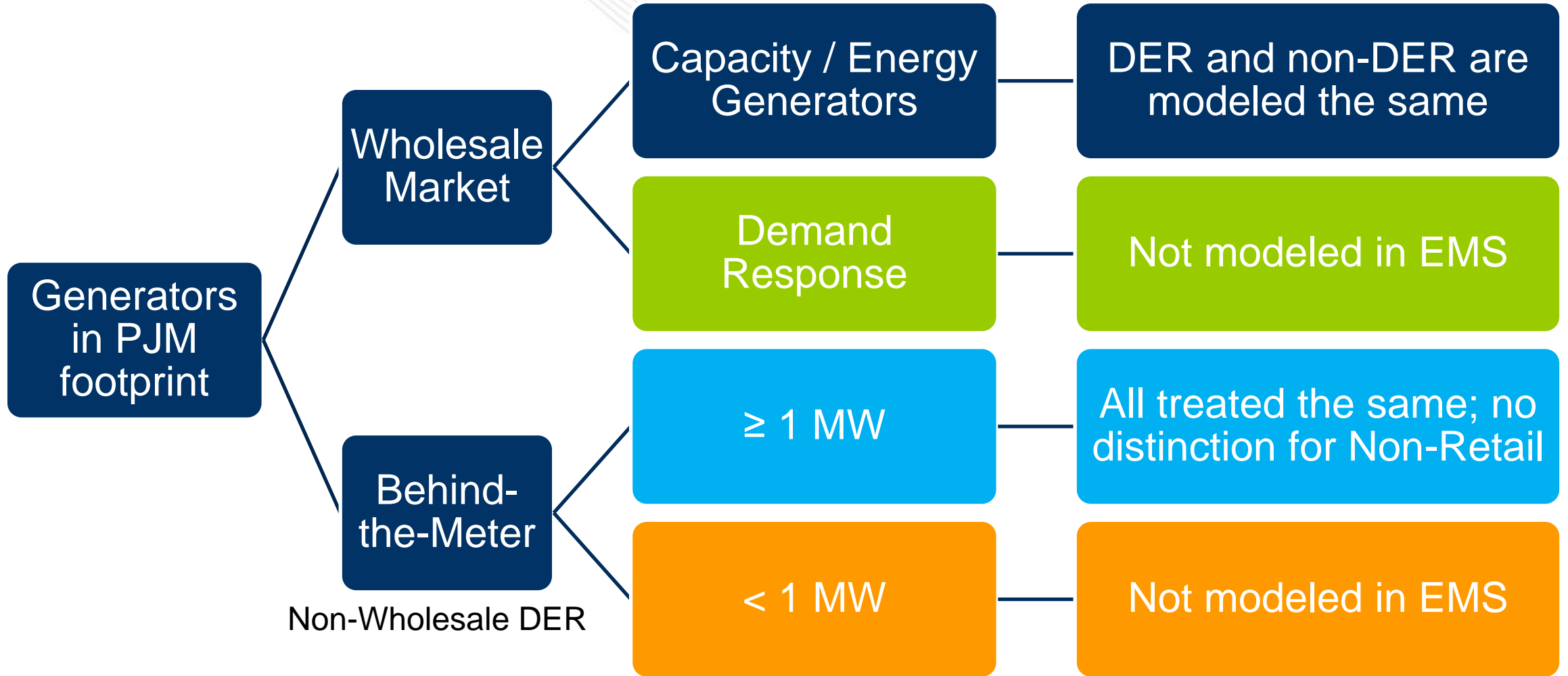
# PJM considerations of DER in future technology endeavors (modeling and otherwise) Educational Dialog

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# BTM Modeling Practices by Category



## All Solar

Forecasting

Integrating into  
load forecast

## All $\geq 1$ MW

Mapping in GIS  
tool

Including in  
load relief  
reports

## All $\geq 10$ MW\*

Modeling in  
EMS

Obtaining real-  
time telemetry

\*May also include smaller units when warranted by reliability concerns

Drive modeling standards and model process efficiency across PJM and members

Consider analytical modeling requirements

Continually improve model quality and mitigate against single points of failure

Consider generation and transmission owners' dependency and involvement



Consider time-based elements and allow for efficient updating

Appreciate different planning, operations and market modeling needs

Optimize the use of a centralized data source  
*(include: topology, attributes, MOD 32, etc.)*

Foster a culture consistent with Human Performance efforts and team solidarity

- Explore methods that offer units full access to PJM markets while maintaining the flexibility of the EMS model
  - Allows PJM to make reliability-only decisions on what to model without impacting market access
- Use of visualization methods for control room situational awareness of impactful DER