

The Future of DER in PJM

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Wholesale DER

1 GW

Demand Response

Customer-sited generation:

Offers into capacity, energy and/or ancillary services markets

74%	24%	2%
Diesel	Natural Gas	Other

Remaining ~8 GW of DR is load modification without any generation (e.g., industrial process management)

1 GW Generator

Front-of-the-meter generation:

Offers into capacity, energy and/or ancillary services markets.
Can be sited at customers.

Mostly solar but also other fuels

Non-Wholesale DER

~7 GW DER

Solar PV DER: Retail/rooftop solar

Municipal DER: Municipal electric company distribution-level generators

Process DER: Industrial generators, combined heat and power

Resilience DER: Emergency backup

Qualified Facilities: Direct sales to distribution utilities

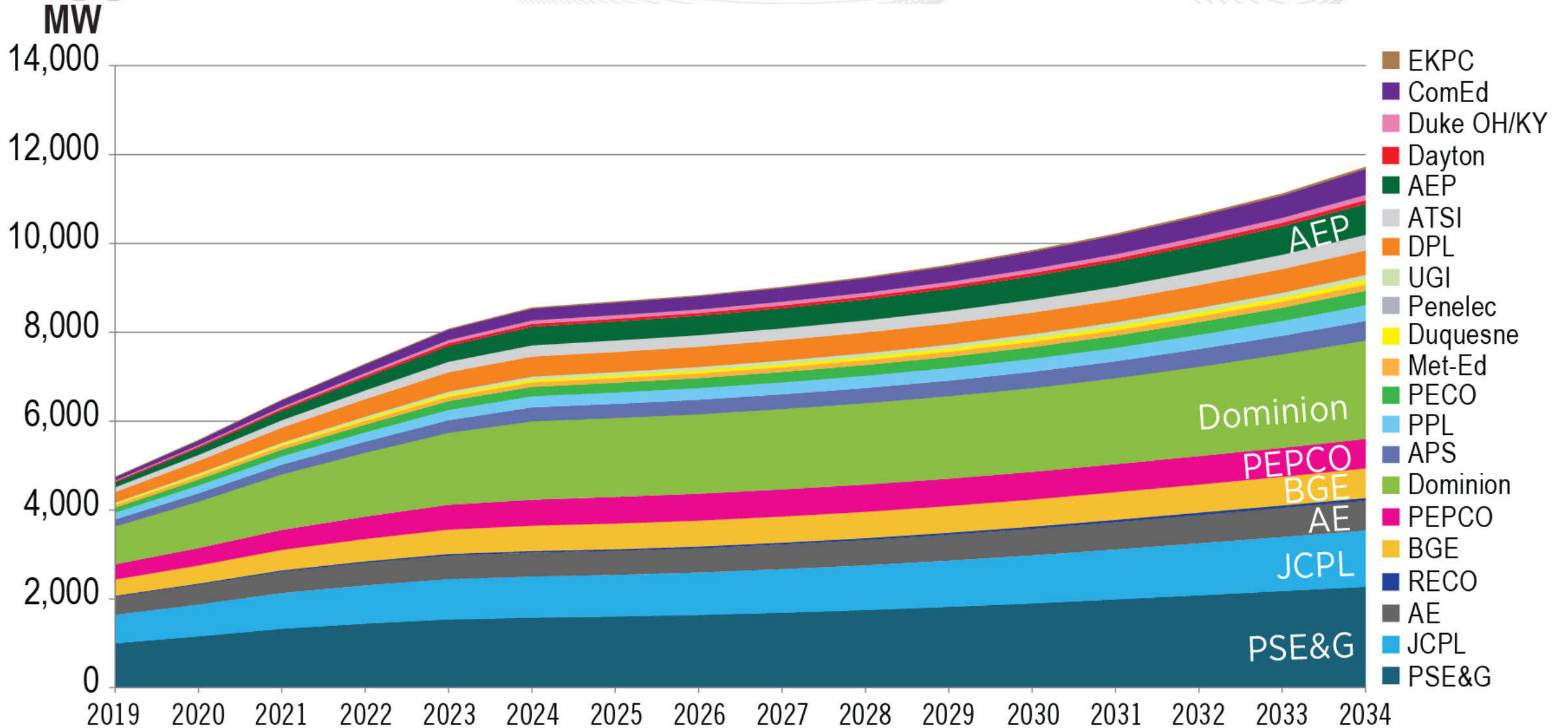
Forecast &
Visualize

Open
Access &
Markets

Resilience &
Innovation



Forecasting Non-Wholesale Solar Growth



Unprecedented number of changes in the power industry



Storage technologies



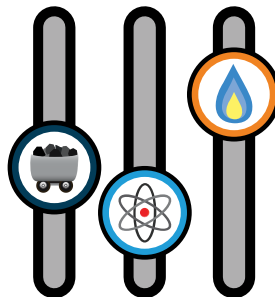
Distributed energy resources



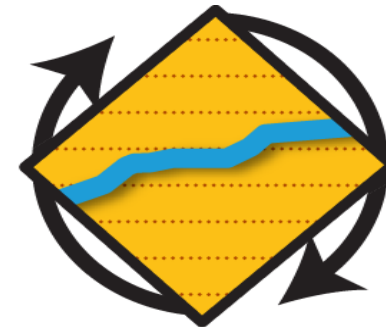
Intermittent renewables



Alternative technologies



Fuel Swap



Customer behavior and choice