

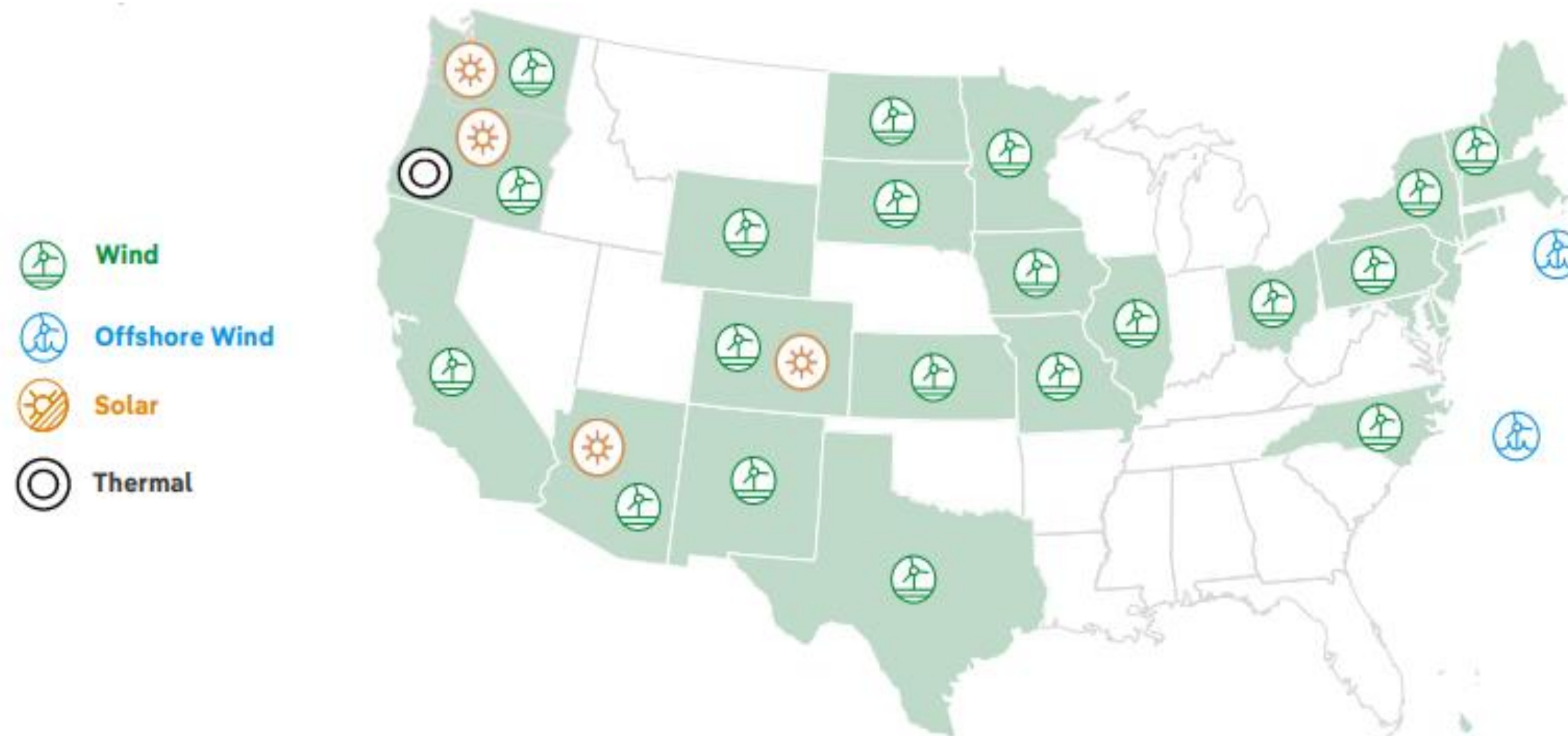


Illinois Renewable Energy Conference

Utility Scale Wind and Solar – Interconnection Issues

About Avangrid

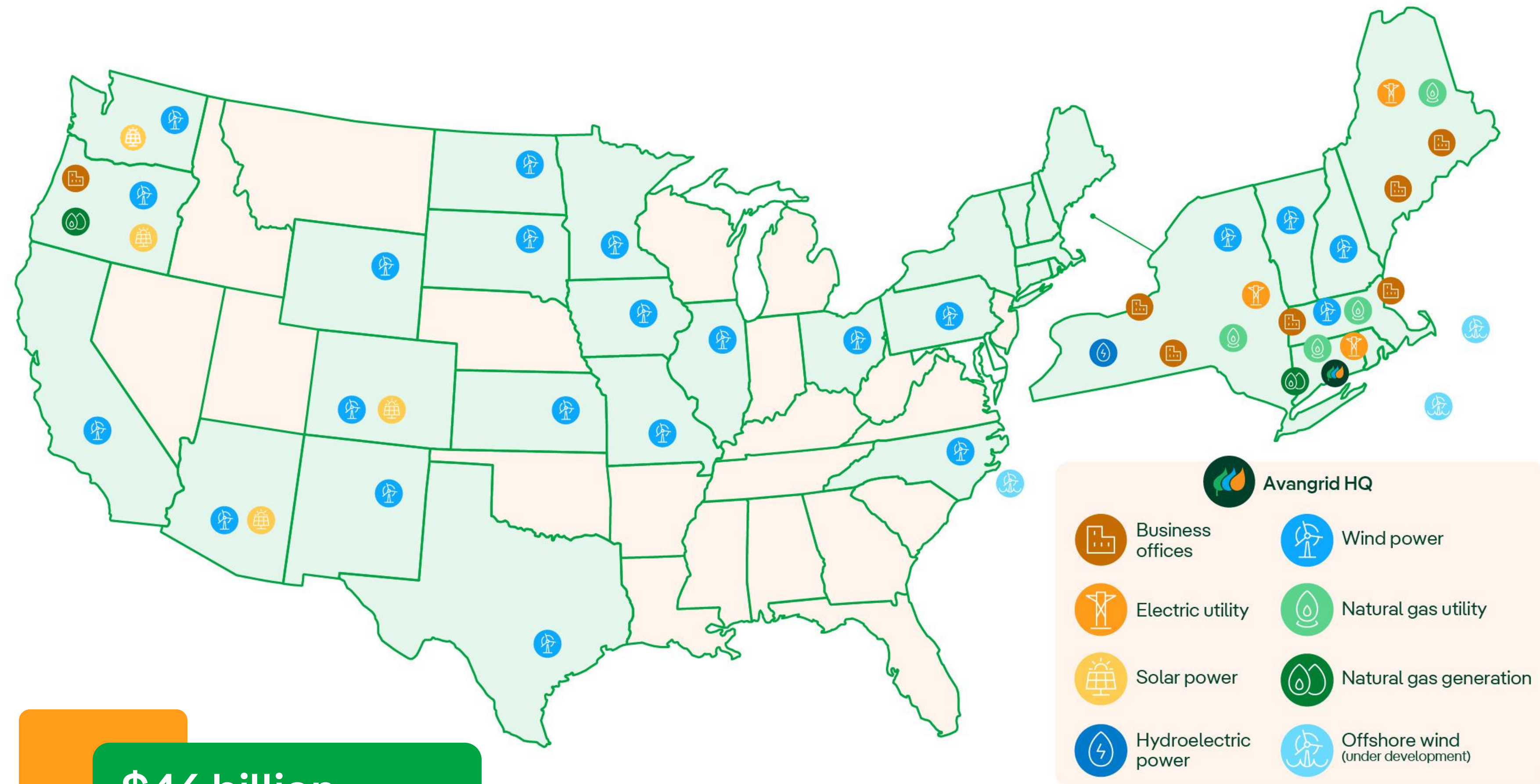
Avangrid has been a leader in clean energy development since 1995. We currently have more than 9.0 GW of installed wind and solar capacity in 22 states. Our track record gives our customers certainty in resource planning and confidence that we will provide a solution to meet your specific needs.



~ 1.4 GW⁽²⁾ onshore & offshore under construction



Our footprint: where we operate



\$46 billion
in assets with a
presence in 24 states

Key points

- Footprint in 24 states with \$46 billion in assets
- 4th largest onshore renewables generator in the U.S
- 9.0 GW total installed capacity of wind and solar in 22 states
- 12.3 million metric tons of CO₂ emissions avoided
- 9 electric power markets
- 24/7 generation system control room, power trading and battery storage

Who am I?



- Senior Director – Mid Continent Development
- Started at Avangrid in 2007
- Lead Developer on ~1 GW of renewable energy projects in operation or construction
- Licensed Professional Engineer
- Certified Energy Manager
- Prior to Renewable Energy...
 - Petrochemical Industry
 - Rubber Industry
 - Engineering/Construction/Projects

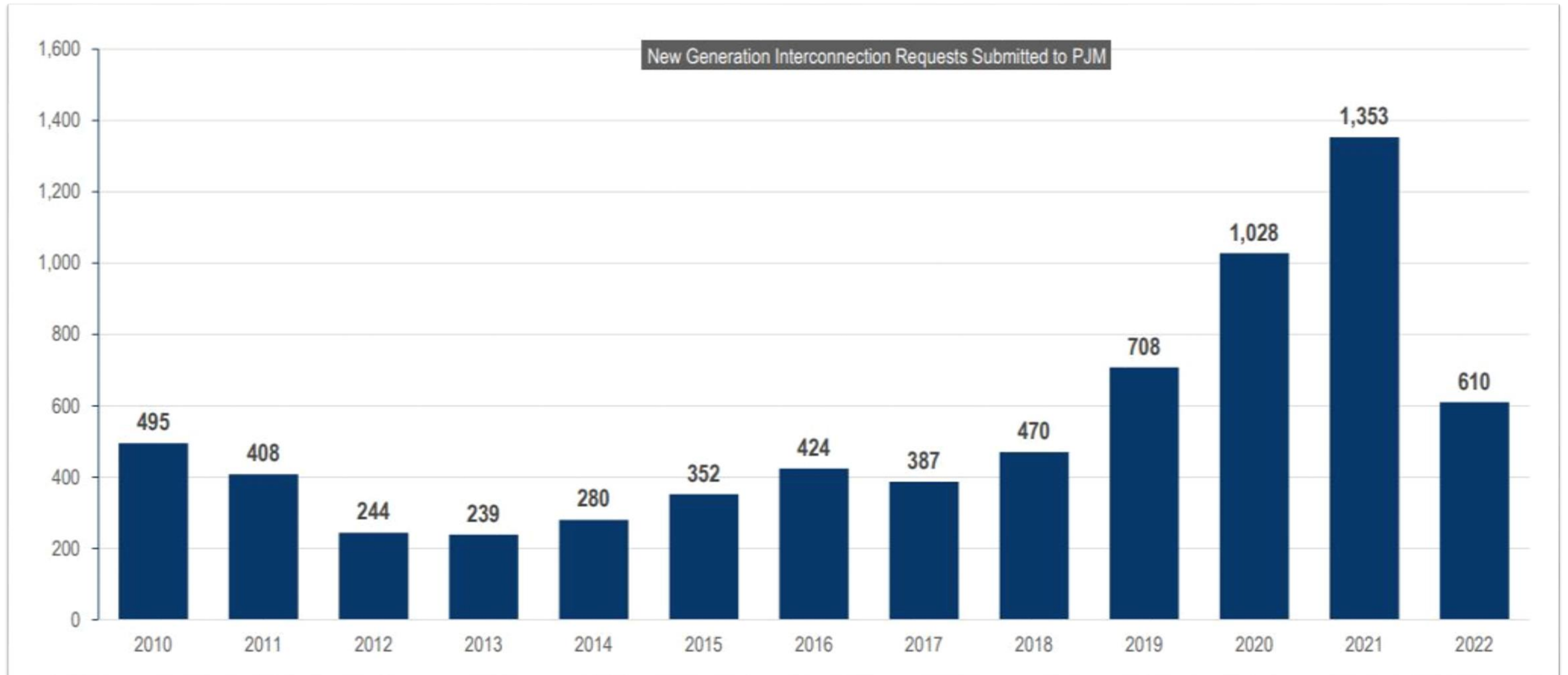


Interconnection Queue status

- To paraphrase Charles Dickens
- Best of times....Worst of times
- Energy transition + sustained increased future demand = Best of times
- Current infrastructure status + progress towards preparation for increased demand=
- Not best of times....



PJM Queue requests trend



Source: Queue Reform and Current Statistics, PJM

[Queue Reform and Current Statistics](#)

PJM Situation and Reform Plan

- **Situation**

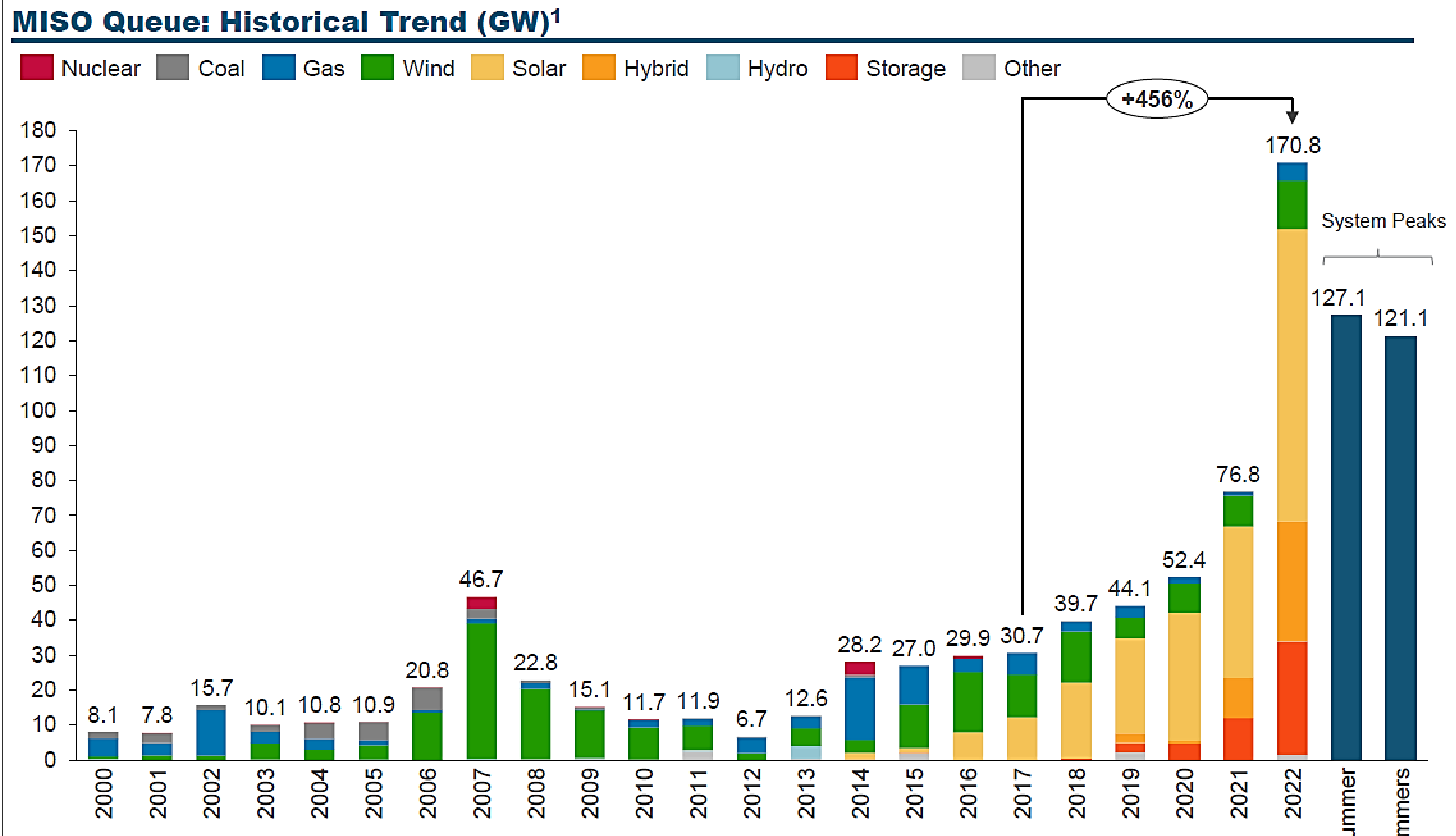
- Soaring consumer demand = huge rise in IA requests in 2019
- Serial study process required restudy for each project sharing a network upgrade if a project withdrew (huge delays due to restudies)
- Low barrier of entry encouraged speculative requests, exacerbating the issue...

- **Reform Plan**

- Intent: Increase barrier of entry, consequences of failed applications
- June 2022 – Queue reform plan filed with FERC...increased barrier of entry, project readiness requirement, and increased cost of late withdrawal included.
- Good intent, need to align on metrics/expectations



MISO Queue Requests Trend



Source: MISO Planning Advisory Committee Meeting dated 07-19-2023

Link: [Planning Advisory Committee \(PAC\) Special Meeting - September 18, 2023 \(misoenergy.org\)](https://www.misoenergy.org/Planning-Advisory-Committee-(PAC)-Special-Meeting--September-18,-2023)

MISO Situation and Reform Plan

- **Situation**

- State Policy modifications (carbon neutrality)
- Integrated Resource Plans demand for clean energy
- IRA passage
- = 456% increase in queue requests from 2017-22

- **Reform Plan**

- Intent: Increase barrier of entry, consequences of failed applications
- Increased milestone payments
- Increased withdrawal penalties
- Increased site control requirements
- Proposed cap on annual new requests (annual peak)
- Good intent, similar need to align on metrics/expectations.



Going Forward

- Both Markets' intent and efforts are appropriate, BUT metrics/expectations need to be better aligned with reality of project development
- Plan continued outreach and proactive response to better inform details of reform
- Shared objective is to foster predictable and organized progress of interconnect request processing (we are definitely aligned on that objective).





Questions