



# PJM Policy Workshop Session #3



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## Apex by the Numbers



# Diversified Project Portfolio

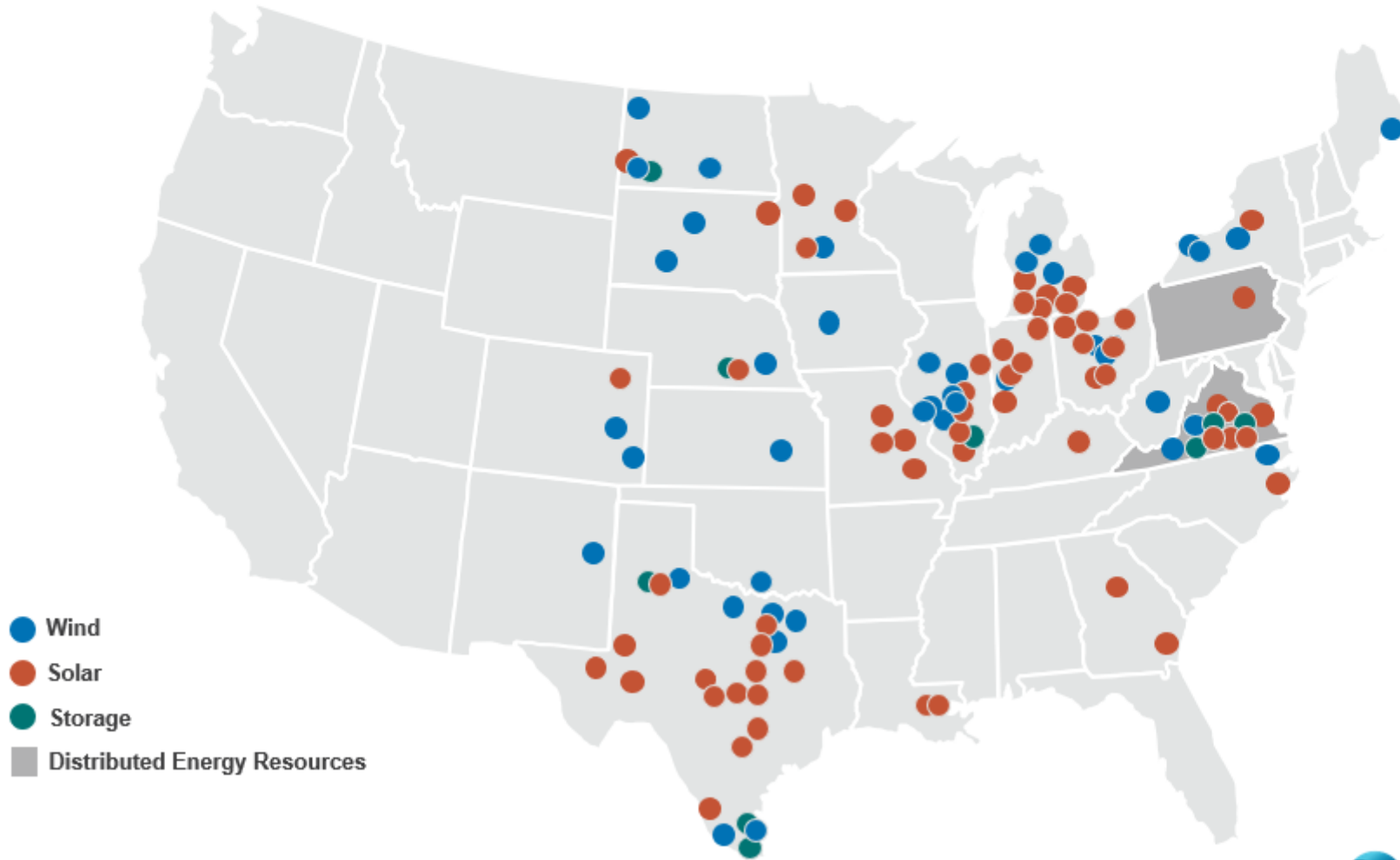
Apex's projects represent gigawatts of near-term clean energy opportunity

11 GW Wind

10 GW Solar

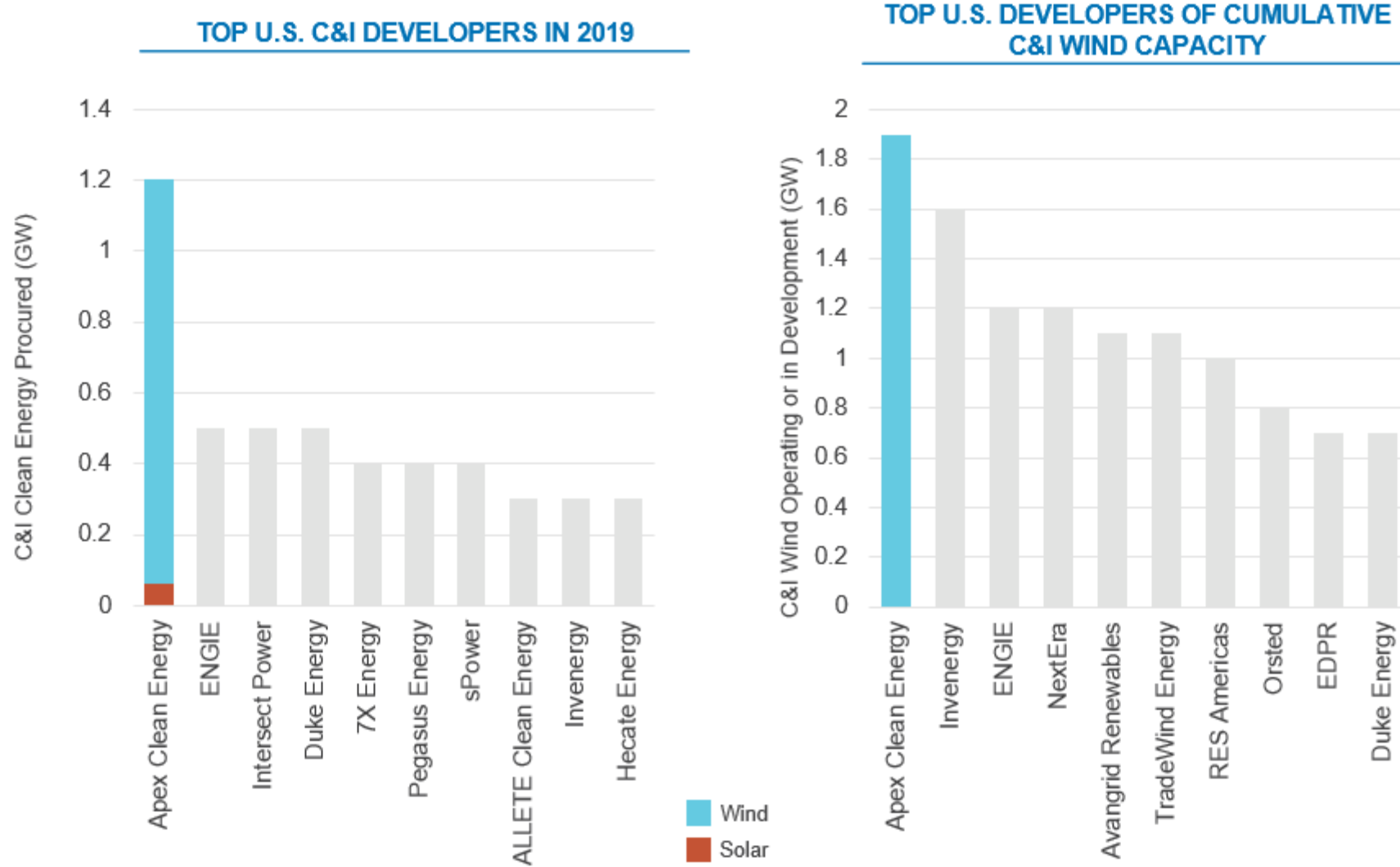
4.5 GW Storage

0.3 GW Distributed



# Leading the Commercial and Industrial Market

Apex ranked first in the industry in 2019 for C&I clean energy procurement and for cumulative C&I wind capacity



Source: Wood Mackenzie



# PJM QUEUE PROCESS REFORM TASK FORCE

- Apex appreciates the time, consideration, and outreach staff has made with the development industry, and commends PJM current solution proposal for the GI Queue.
  - Both staff and executives have invested time, effort, and thought in arriving at a viable and durable framework for which Apex is grateful
  - Apex is looking forward to additional collaboration with stakeholders on the new process and managing the sizable study backlog.
- There are several details of the proposal that have yet to be vetted and discussed with the task force; Apex looks forward to continued collaboration involving these elements.
  - [The Transition from current to future tariff structures](#)
  - [Tariff submittal including effective date and associated system enhancements](#)
  - [Manual development](#)
  - [Staffing resources necessary to accommodate new rules and study processes](#)
  - [On-going communication with ICs regarding project status and deadlines.](#)
  - [Existing and future business processes will require a focus on communication with interconnection customers.](#)
- Acceptance by different stakeholders and PJM is a key aspect of this new process

# ADVANCED NOTICE OF RULEMAKING (ANOPR)

| FUNCTION            | SILOED PLANNING   | HOLISTIC PLANNING   | DISCUSSION  |
|---------------------|---|---|---|
| Planning Categories | Separate/discreate reliability, economic, and public policy processes involving different model builds, timelines, outcomes, etc.   | Integrated process to avoid process handoff and fragmentation while incorporating full range of transmission drivers and benefits to arrive at value. | FERC concern is silos will not produce least cost, effective solutions which will disadvantage customers.   |
| Process Impediments | Resolving Reliability issue "A" provides no benefit to Economic issue "B" or Policy issue "C". The fix to "A" occurs irrespective to the needs in "B" and "C". Larger value proposition is compromised. | "A", "B" and "C" are planned, vetted, and Board approved at one or more planning cycles to the extent the process is seeking a multi-value outcome.   | Holistic planning requires changing goals, objectives, and the nature/scope of outcomes. Through the ANOPR FERC has given planners, executives, boards, and stakeholders the opportunity to test assumptions and re-define what the planning process preforms beyond "A", "B", and "C". |

# ANOPR DISCUSSION MATRIX (CONTINUED)

| FUNCTION                                      | SILOED PLANNING   | HOLISTIC PLANNING   | DISCUSSION  |
|---|---|---|---|
| Generation Interconnection Queue Coordination | Queue administration and transmission planning are different activities under the same roof and don't speak. "But For" paradigm and 100% Participant Funding places entire onus on queued projects even if they impact/address "A", "B", or "C" | Transmission and generation planning are integrated. Issues that cause endless retools are eliminated even as the queue churns through the new process. | Fixed GI queue and holistic transmission planning processes enables clean demand to be satisfied. |

# THANK YOU

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