

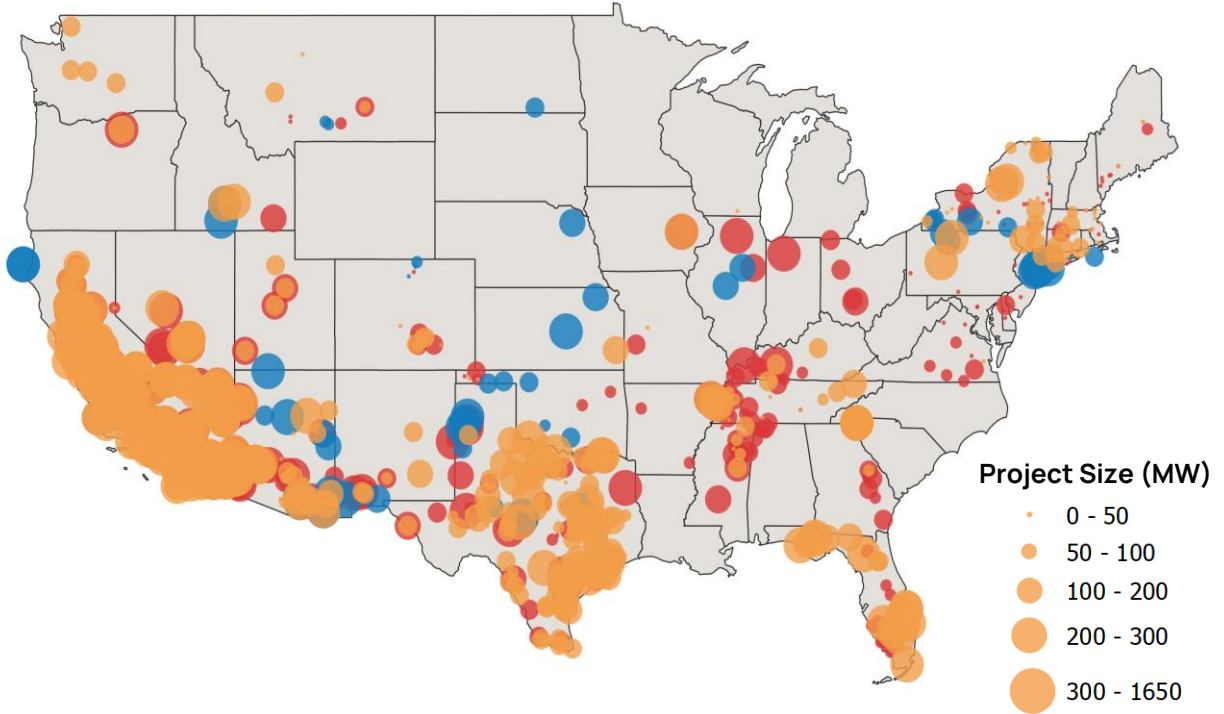
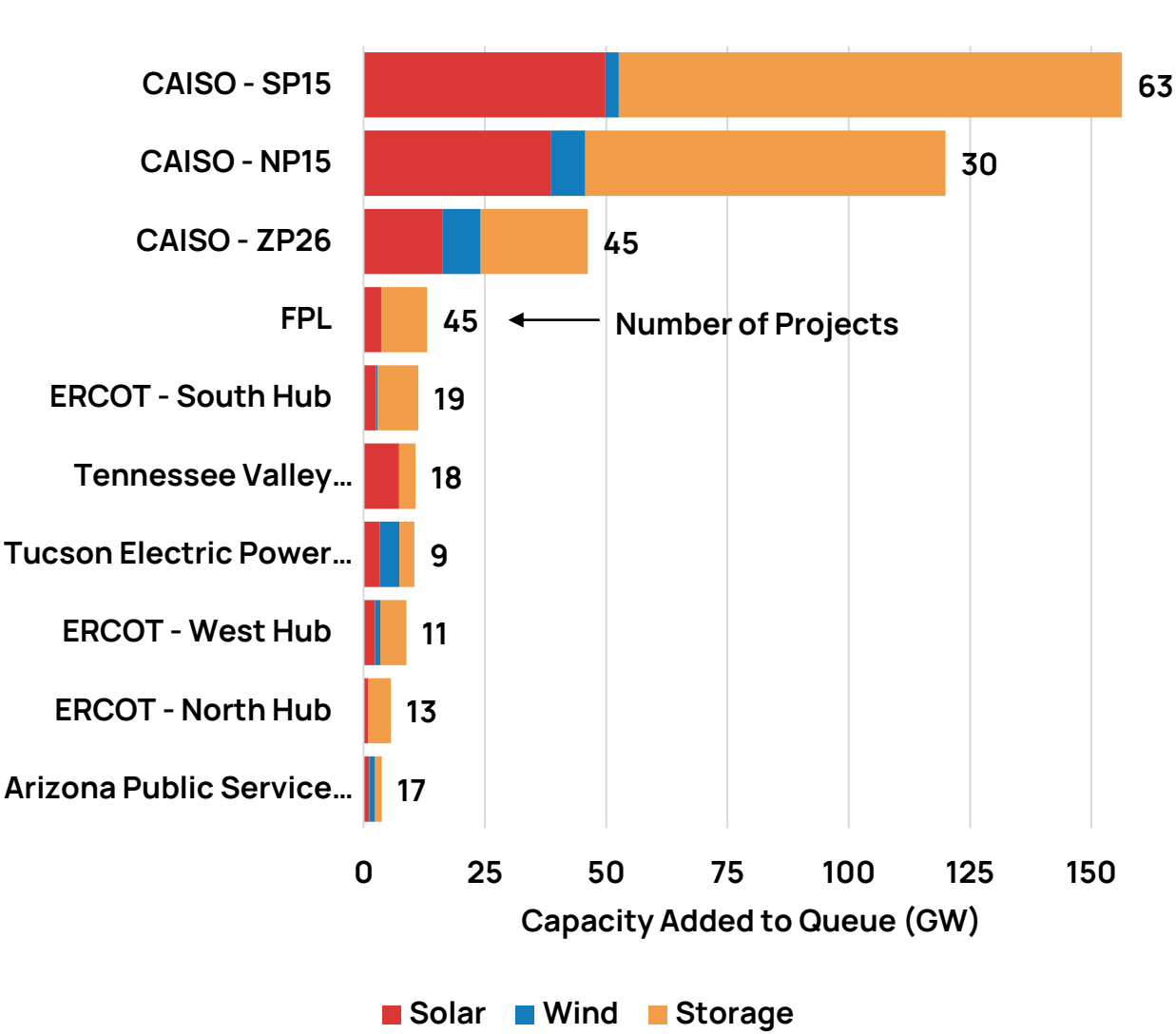
Orennia

An Analytical Roadmap to Evaluating Energy Storage Platforms

March 2024

New Interconnection Queue Applications

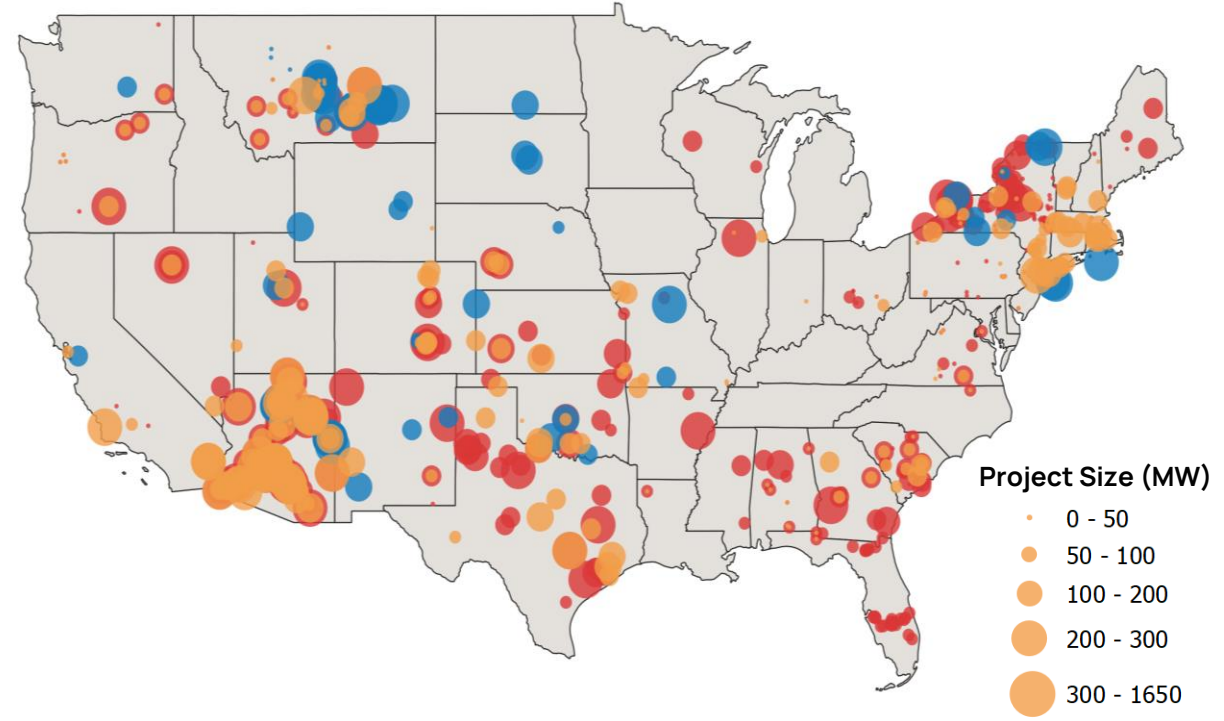
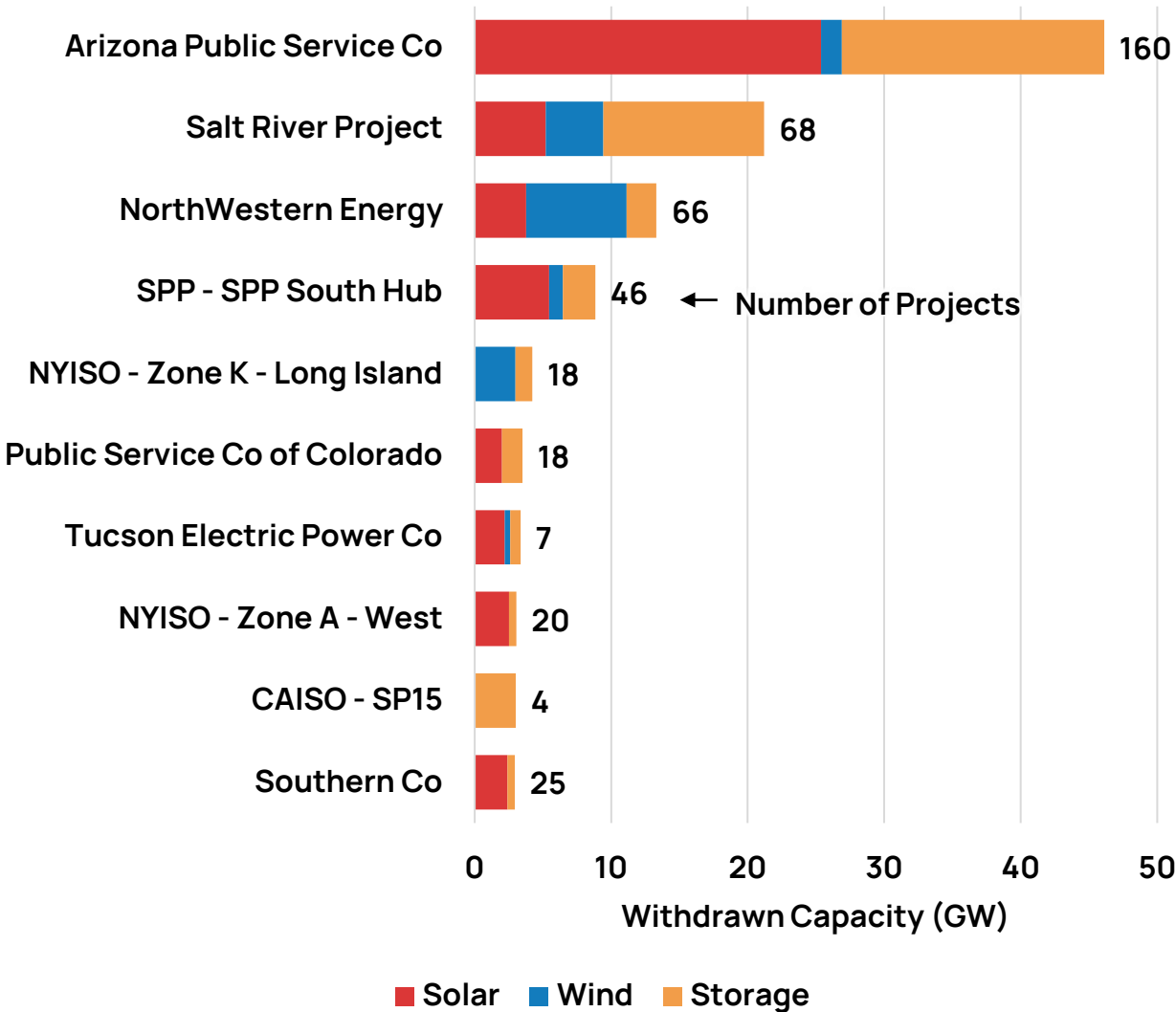
~250 GW of new storage capacity



Type	Total New Capacity (GW)
Solar	140
Storage	249
Wind	34

Withdrawal Activity

Speculation is going to get more expensive

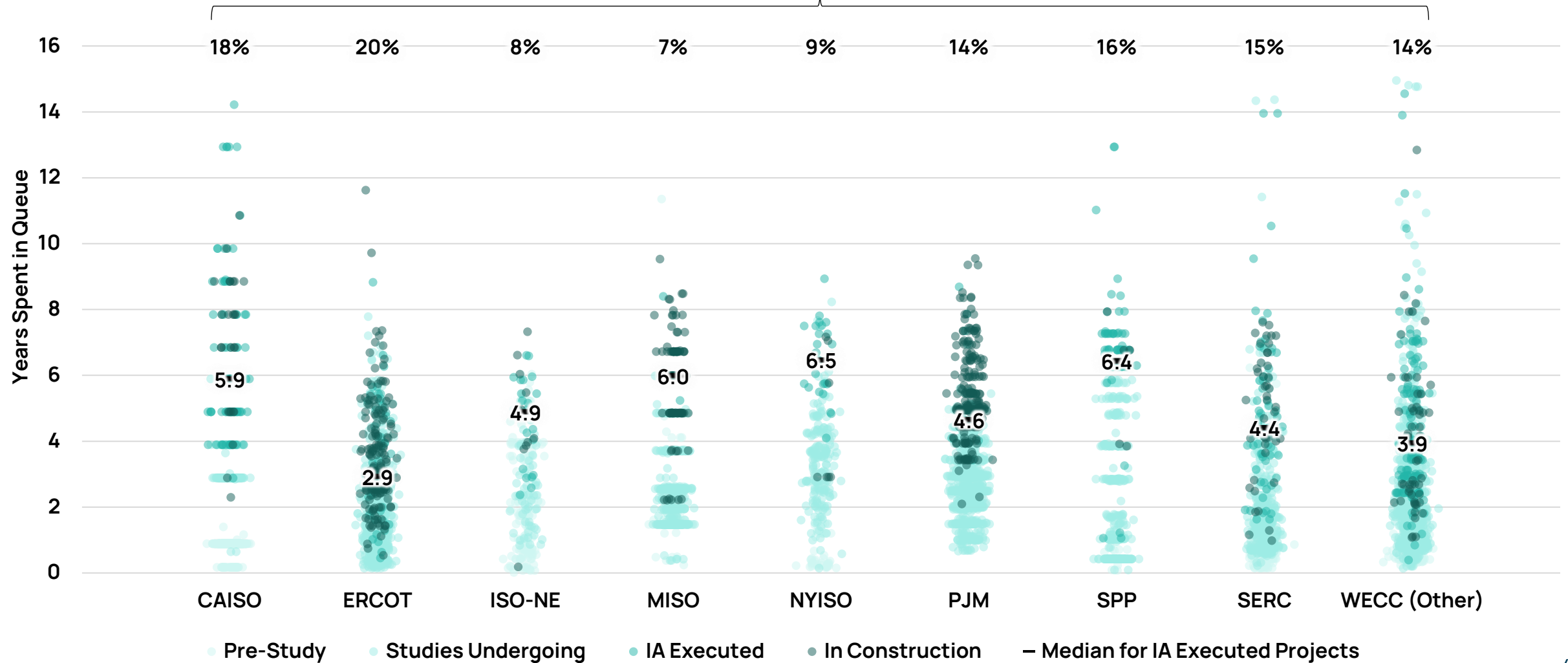


Type	Total New Capacity (GW)
Solar	69
Storage	54
Wind	23

Time Spent in the Interconnection Queue

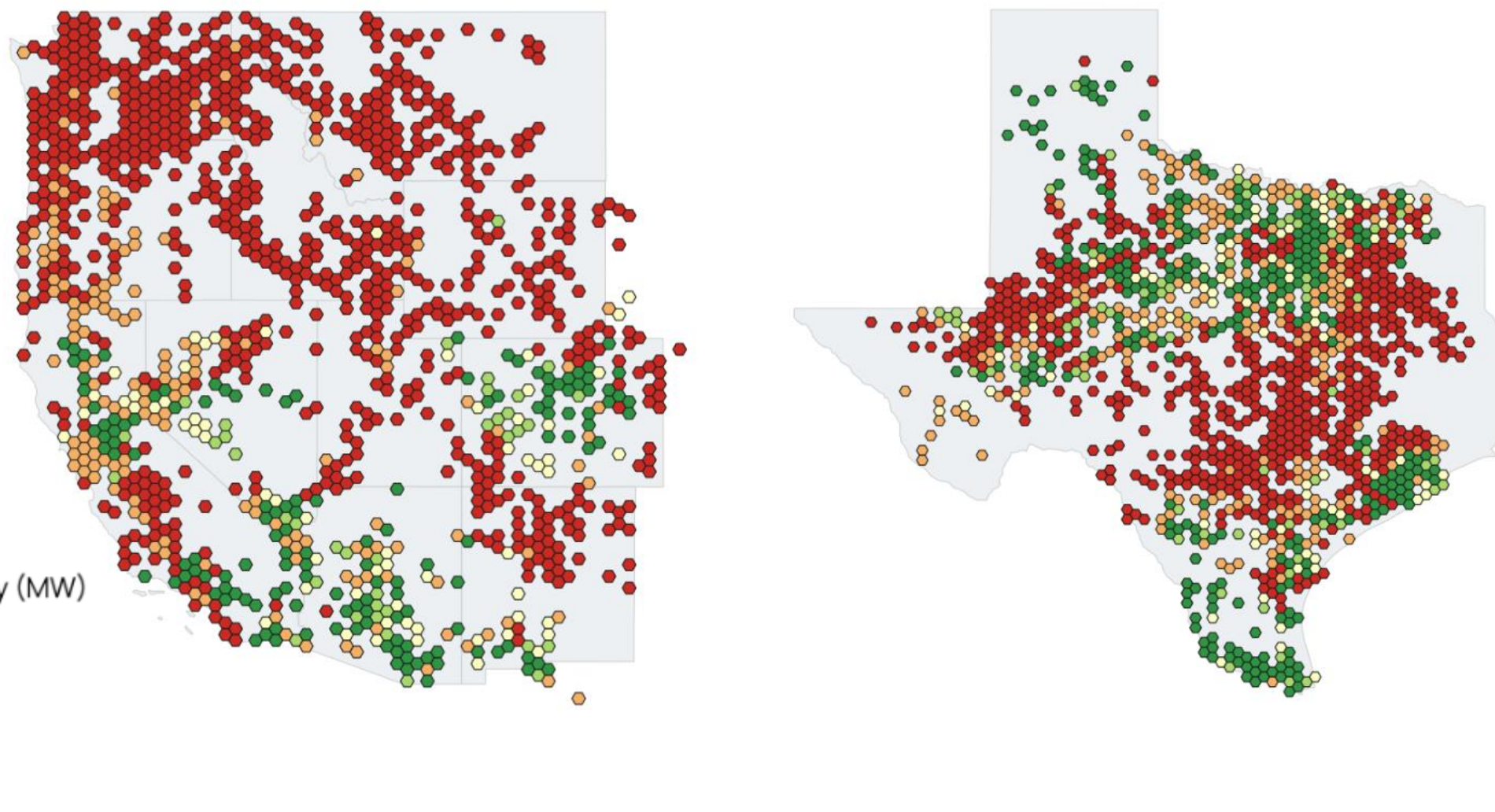
At odds with decarbonization and investment targets

Average Chance of Success for Projects Without Interconnection Agreements



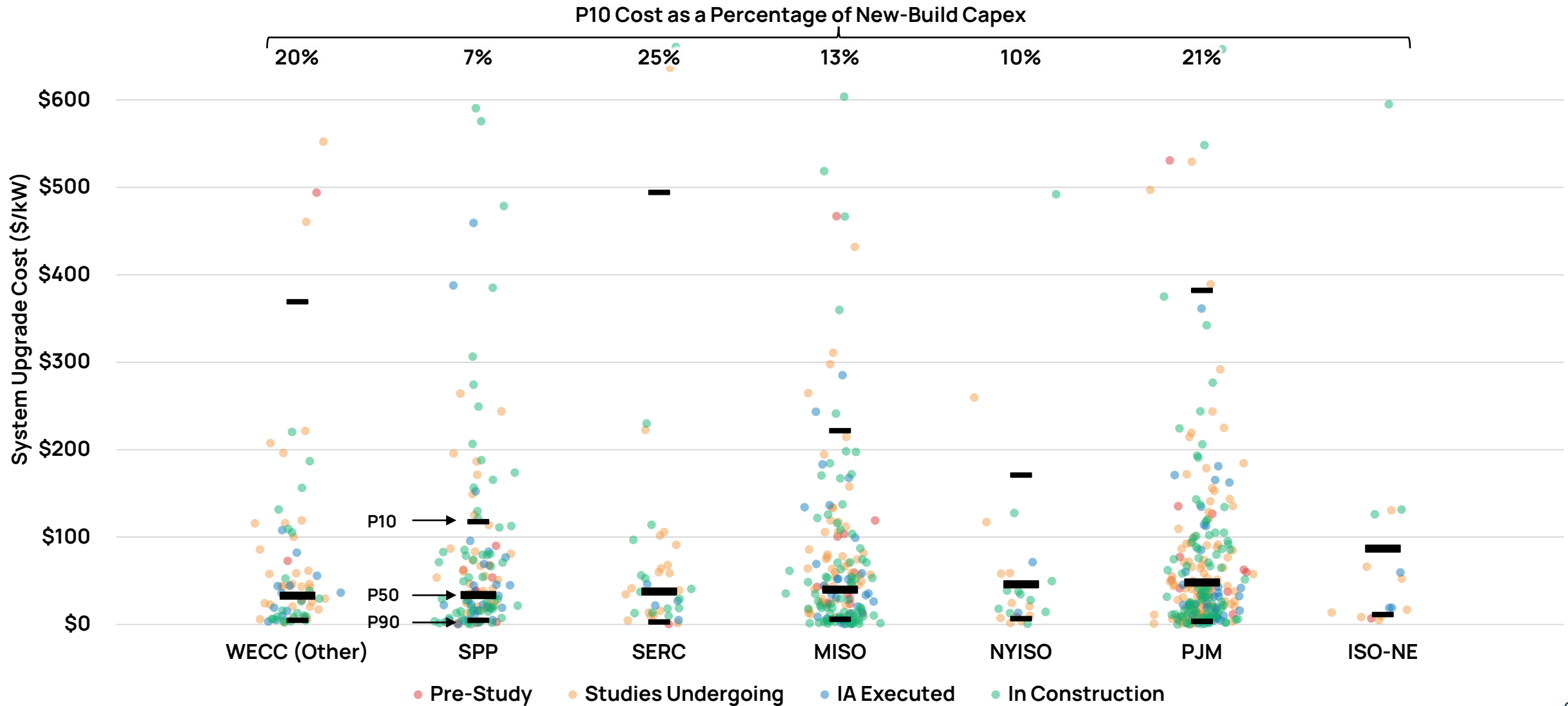
Transmission is Getting Tight

< 17% of interconnection points support >150 MW of new capacity



Transmission Upgrade Costs

Wide dispersion, material impact

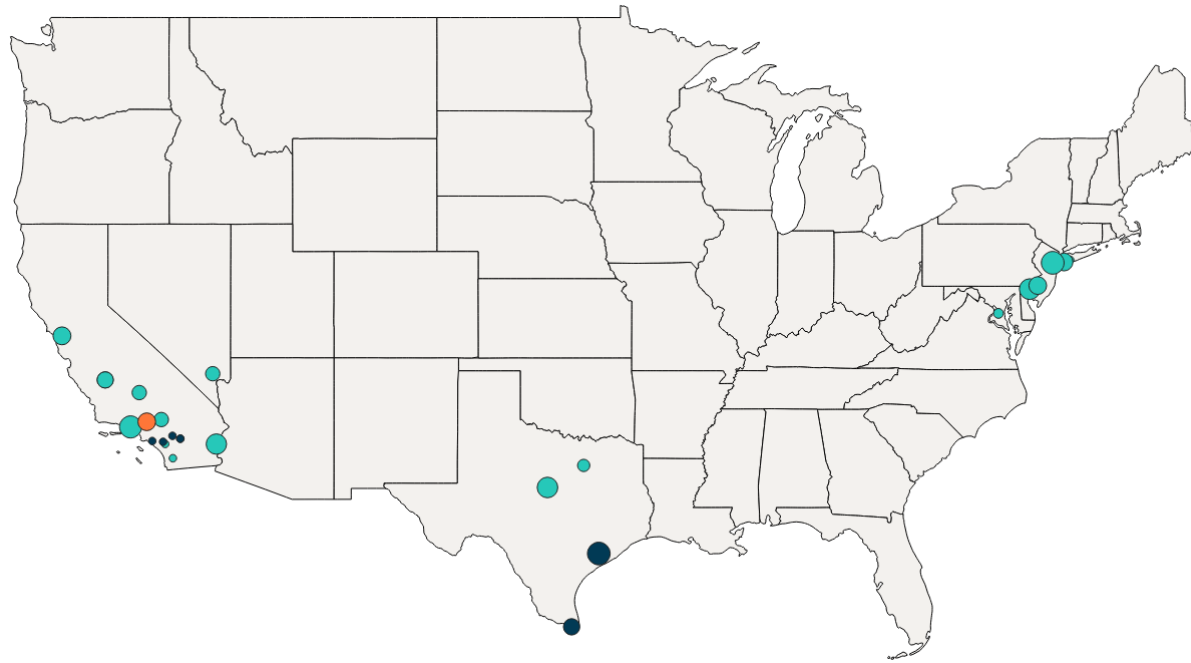




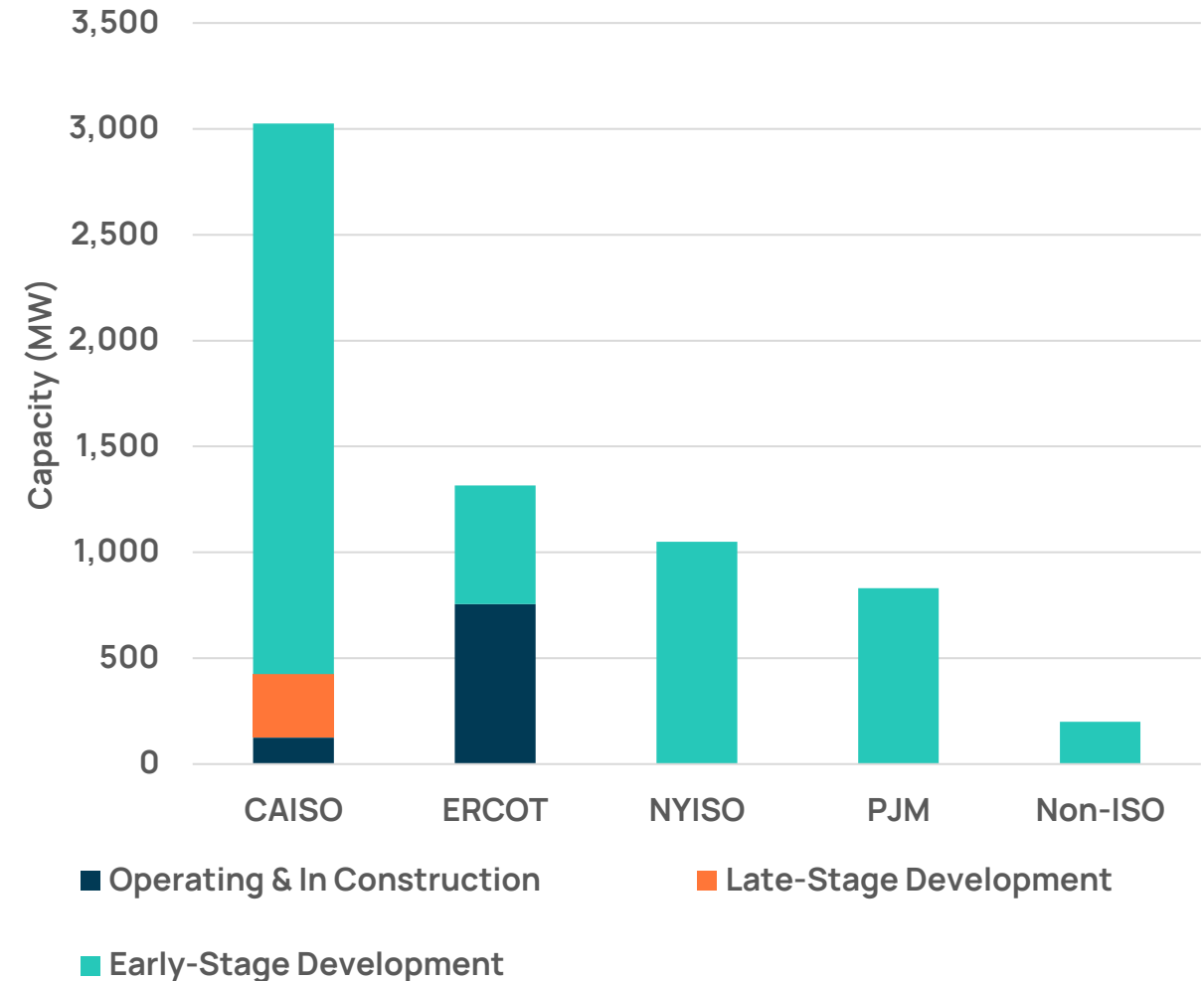
Portfolio Deep Dive

Evolved Storage Portfolio

Large, early-stage with diverse market exposure

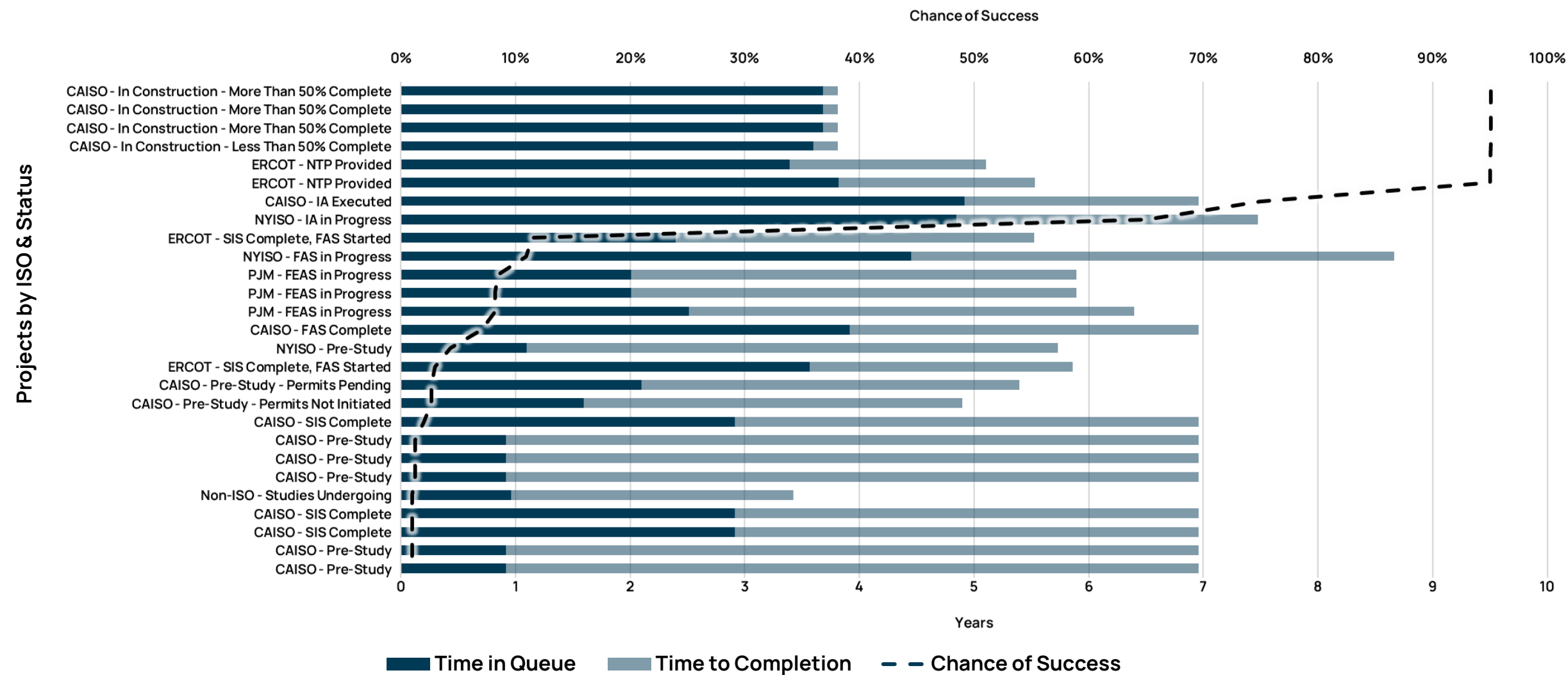


- 500 MW
- 250 MW
- 50 MW



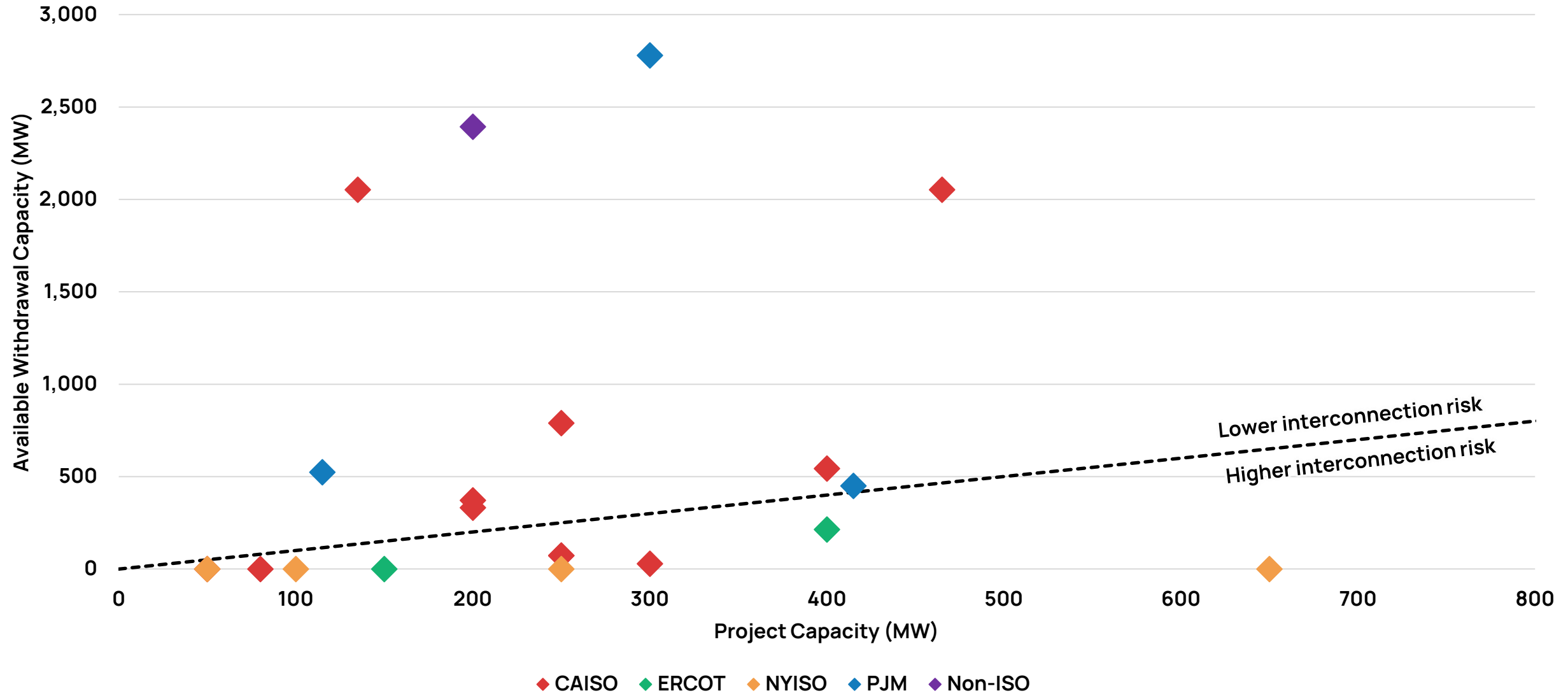
Time to Revenue and Development Risk

Markets will look very different at project completion



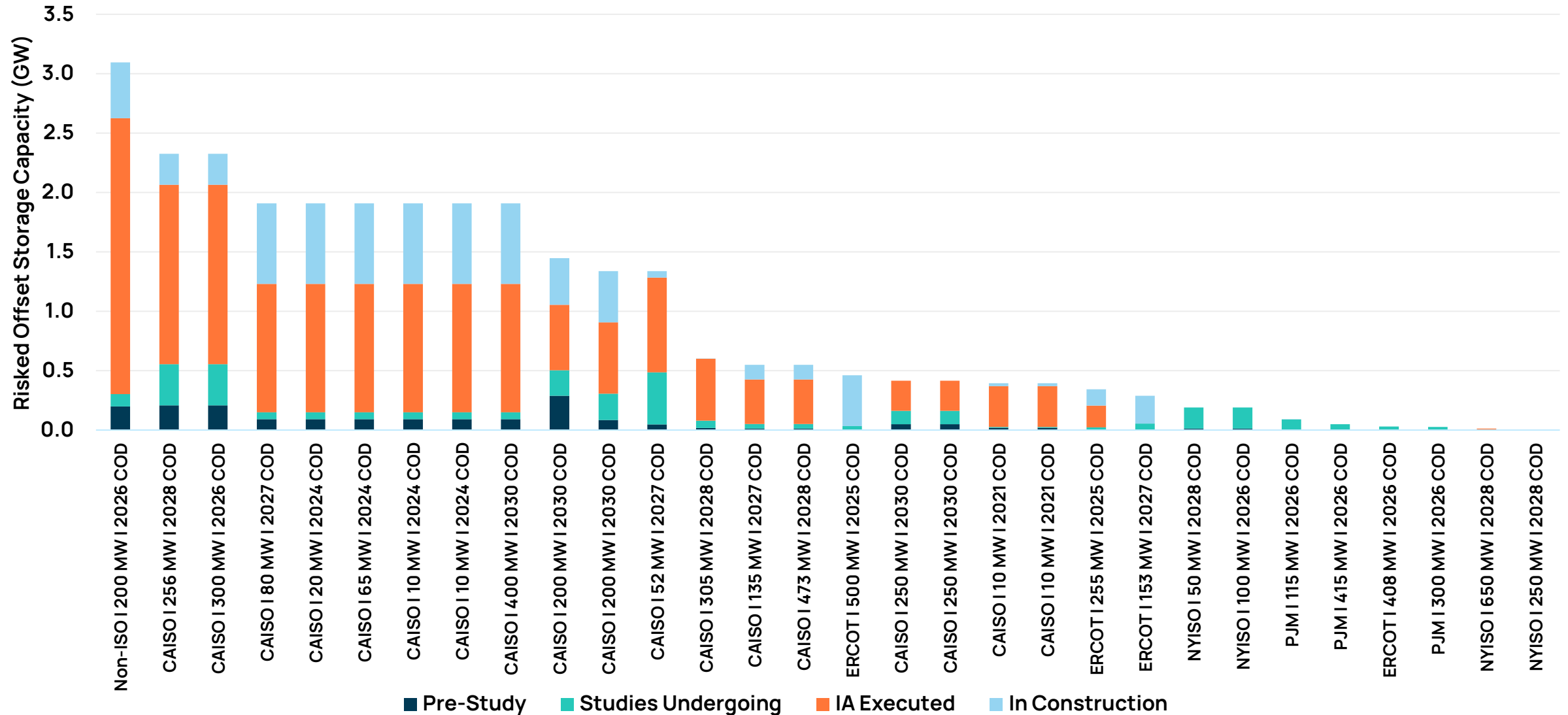
Transmission Risk

11 projects with risk of upgrade costs and/or construction delays



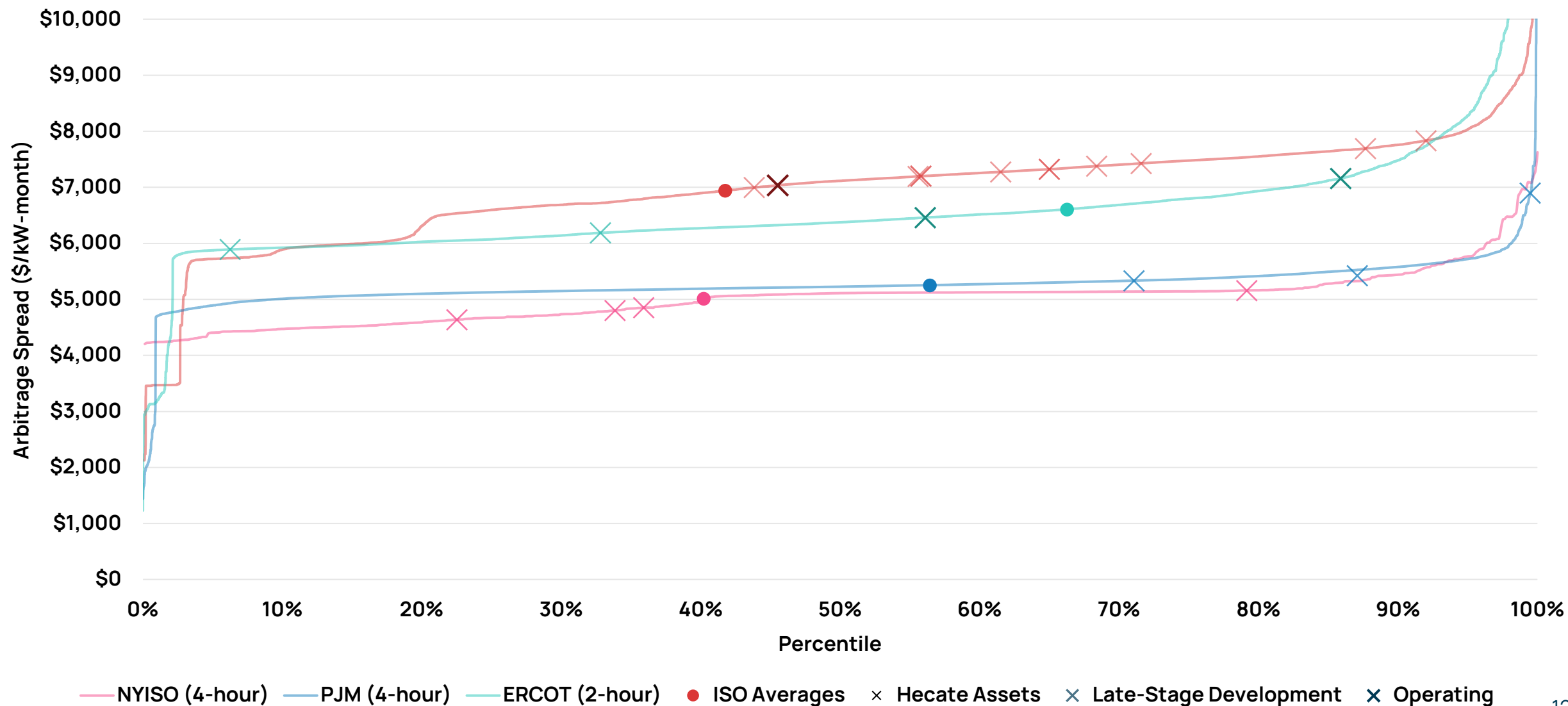
Offset Activity

Heavy competition in WECC



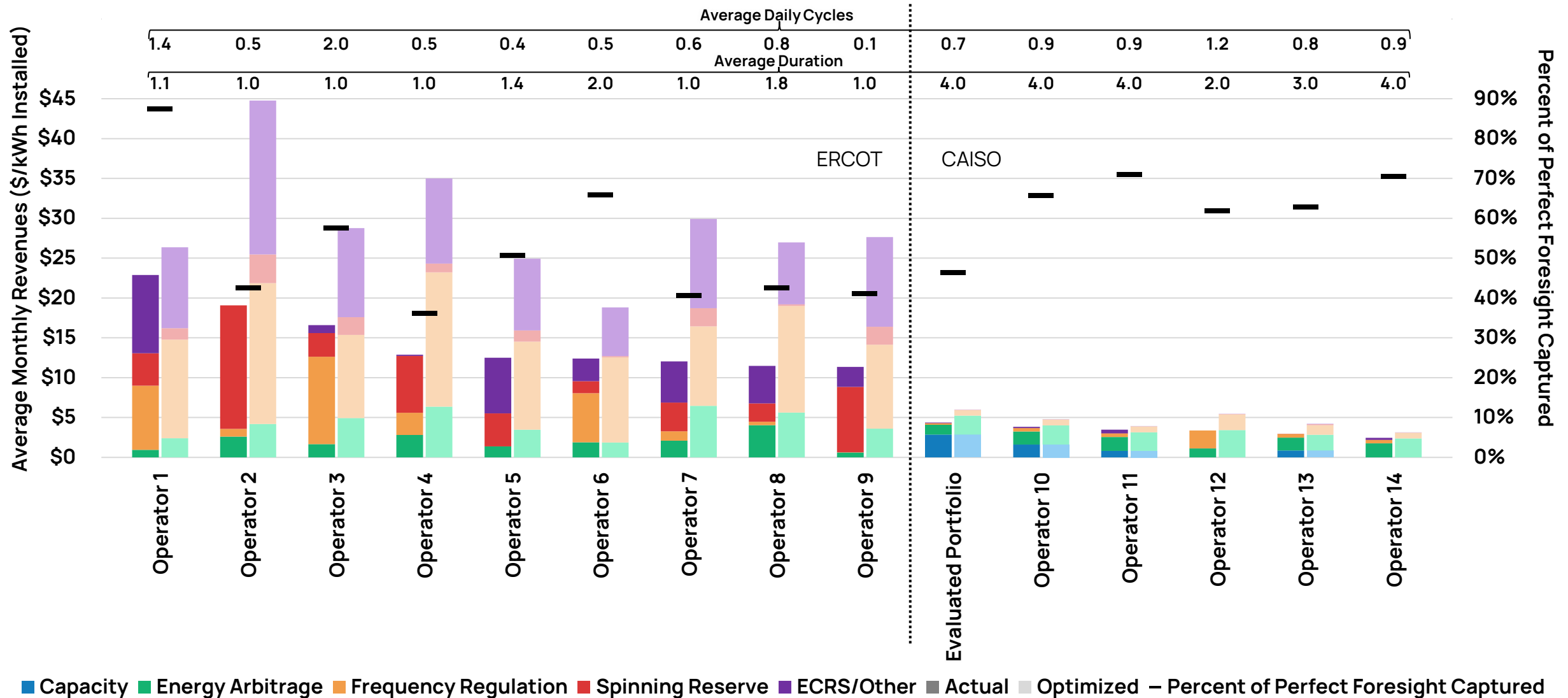
Site Quality

Greenfield development in CAISO outperforms



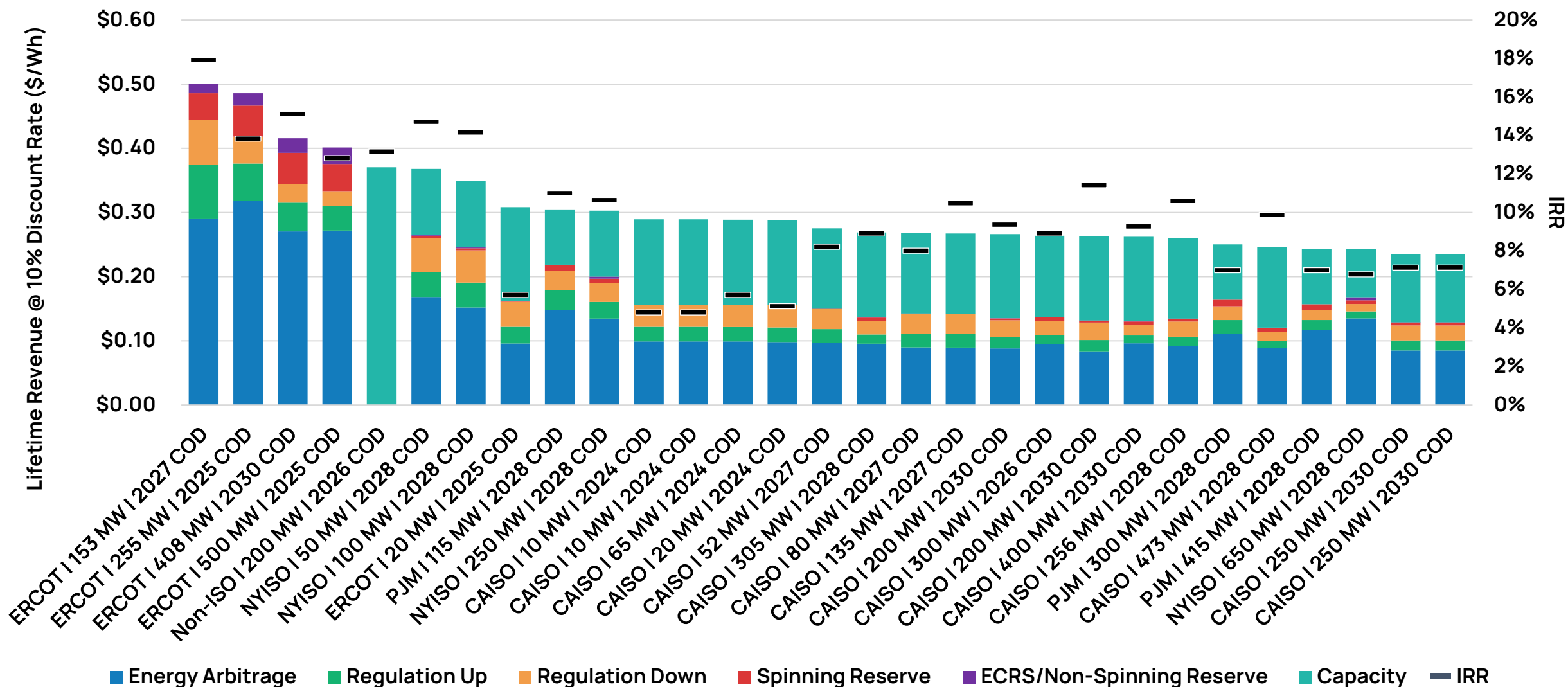
Operatorship

Potential revenue upside from improved bidding



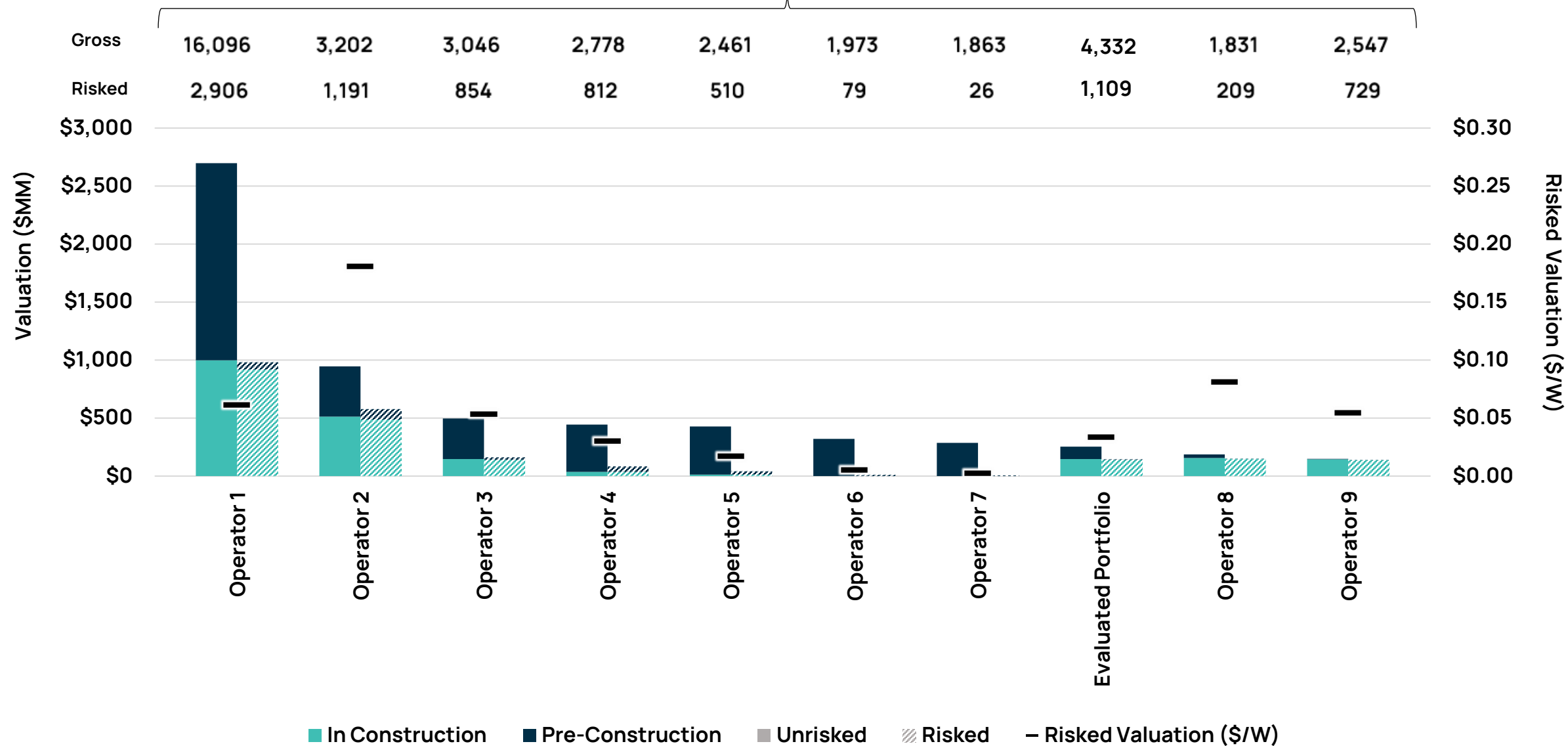
Cashflows and Project Level Returns

ERCOT sites offer the best returns



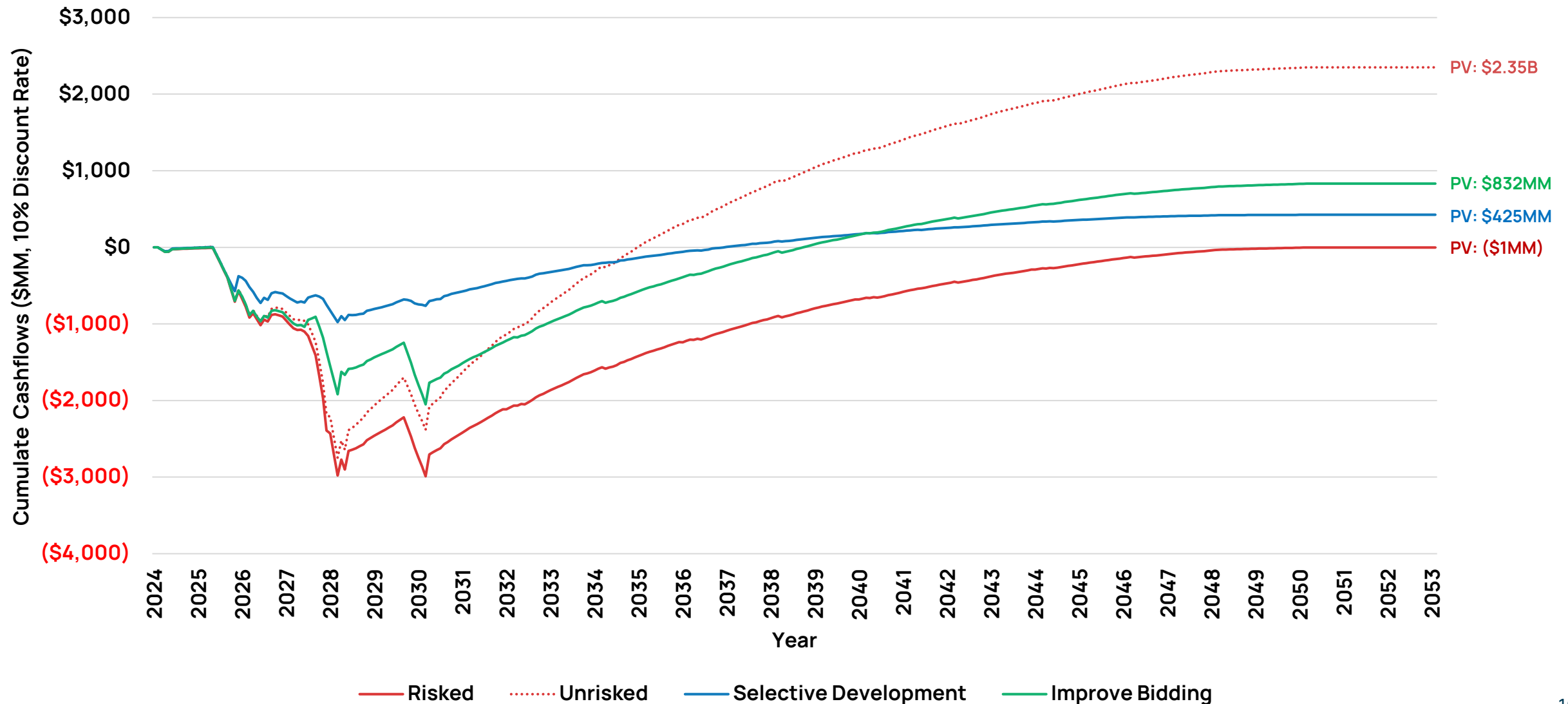
Development Portfolio Comparison

Total Development Capacity, CAISO & ERCOT (MW)



Maximizing Portfolio Value

\$407MM in upside from improving operatorship



Thank You