

Energy Permitting Landscape on Capitol Hill

March 26th, 2024

CLEARPATH

Mission: ClearPath's mission is to develop and advance policies that accelerate innovations to reduce and remove global energy emissions.



Energy Expansion

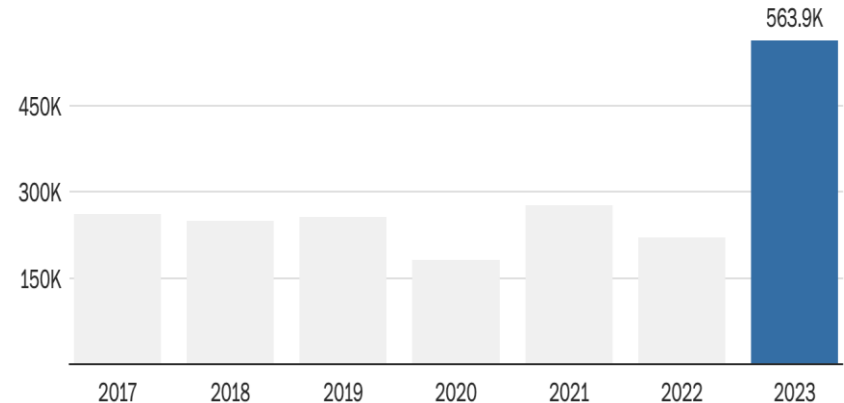
The New Paradigm

Amid Explosive Demand, America is Running out of Power

“When you look at the numbers, it is staggering...It makes you scratch your head and wonder how we ended up in this situation. How were the projections that far off? This has created a challenge like we have never seen before.”

Projected new energy demand in North America doubles

9-year growth forecast of demand for new electricity, in gigawatt hours



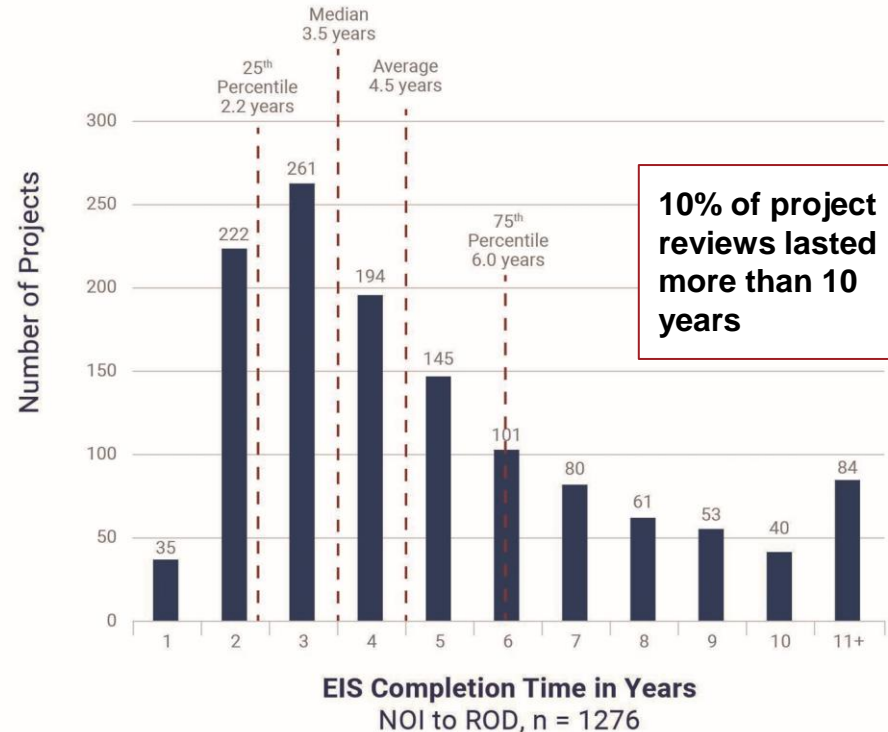
Data covers U.S., Canada and part of Baja California, Mexico.

Source: North American Electric Reliability Corp. Long Term Reliability Assessment

Current Permitting System Already Struggles to Deliver Projects Quickly

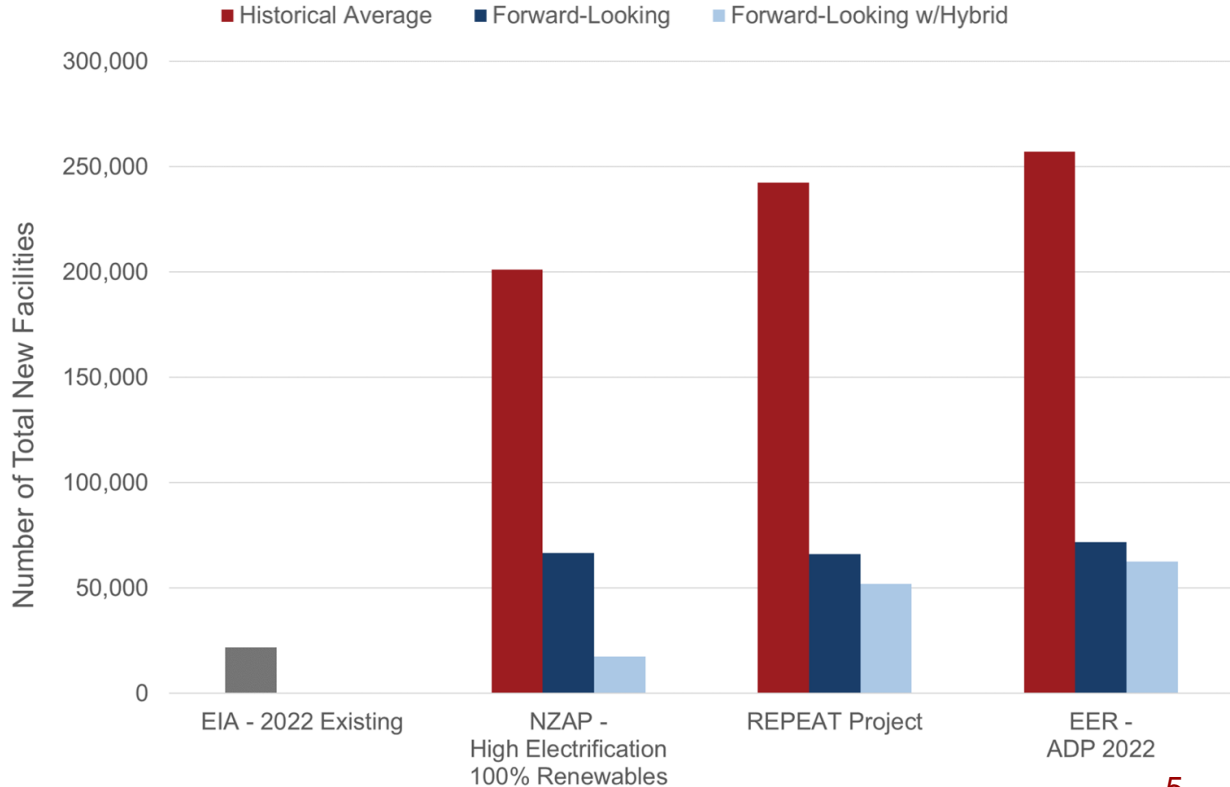
- Project reviews lasted 4.5 years on average for an EIS to reach a Record of Decision (ROD).
- New policies and tax incentives will dramatically increase the number of new energy projects, with heavy focus on clean energy.
- 42% of the DOE's active NEPA projects are related to clean energy, transmission or conservation.

Distribution of EIS Completion Time (NOI to ROD)
All EISs Completed 2010-2018



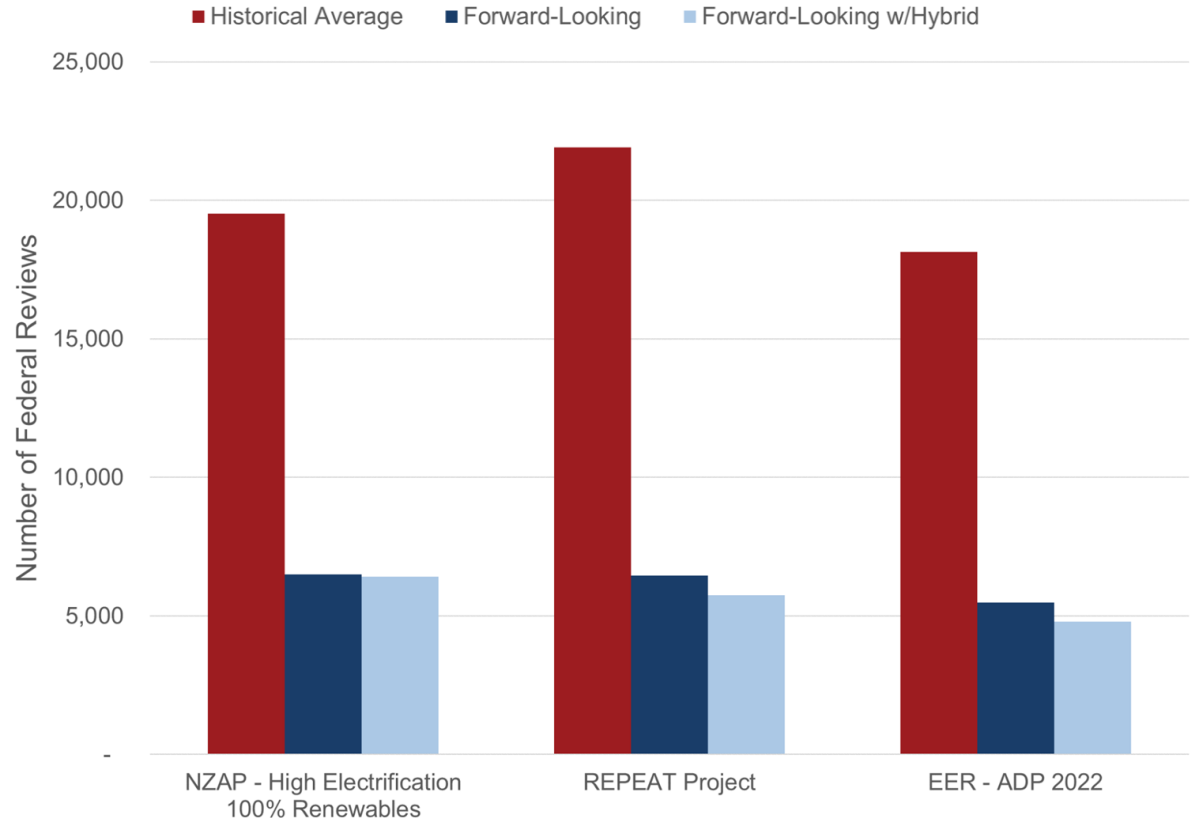
Net Zero by 2050: How Many New Electric Facilities Will We Need?

- Net-Zero models project **~5,000 GW** of new capacity is needed by 2050.
- **1-12x** the number of facilities on the grid today would need to be built over the next 28 years.
- Increasing project sizes and hybridization can significantly reduce new builds compared to historical sizes. However, all future scenarios **dwarf** historical build rates.
- Upwards of **20,000 federal reviews** may be needed, with **nearly half** requiring a federal permit based on historical rates.

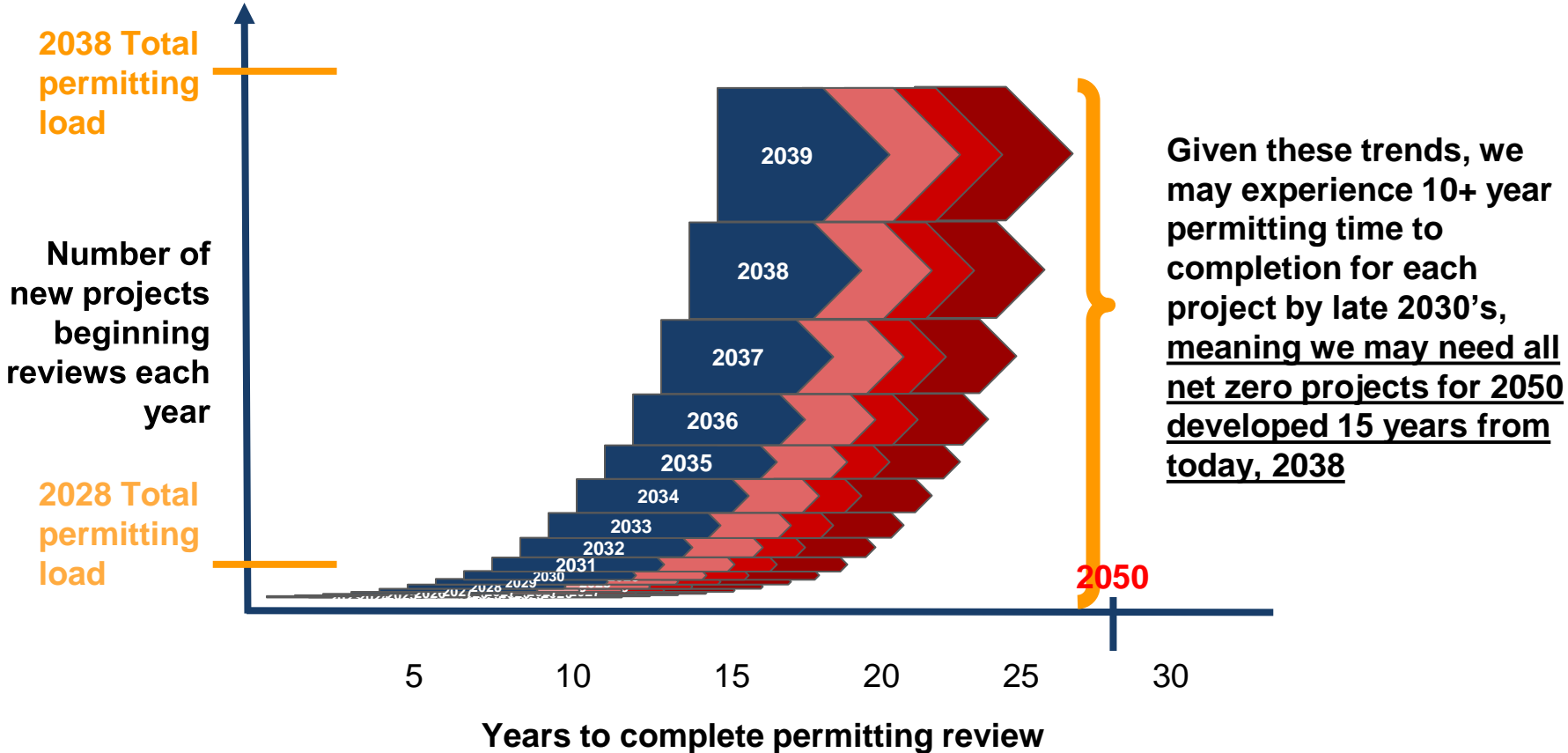


How Many of These Projects Will Require Federal Reviews?

- Between **5,600 and 19,900 projects** will trigger one or more federal reviews.
- We use historical rates of project locations on federal lands, overlap of wind and solar candidate project areas on federal lands, and existing technology specific statutory requirements to inform our assumptions for federal review trigger rates.
- **We did not assess or include state and local reviews or requirements.**



These Timelines Imply an Effective 2039 Deadline for 2050 Operation



Tenets of *Building Cleaner, Faster*

Core Takeaway

Achieving net-zero emissions by 2050 is ecologically essential, technologically feasible, economically achievable, but procedurally impossible.

Immediate Approvals

- For clean energy projects where impacts are well understood, grant immediate permitting approval

Expedited Approvals

- For projects where unique or extenuating circumstances exist, address those concerns through an expedited review process

State & Local Conformity

- Use either a carrot or stick approach to require state and local permitting requirements to match federal processes

Expedite Judicial Review

- Require any and all adjudications to reach finality in under one year so project financing is not jeopardized.

Questions - Happy to Chat After?

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