NEXTera ENERGY TRANSMISSION MIDATLANTIC

PJM Long-Term Transmission Planning Workshop

FERC NOPR

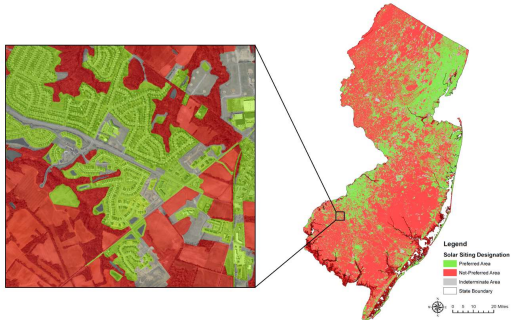
Andrew Taylor / June 7, 2022

Long-Term Transmission Planning is integral to planning transmission infrastructure to meet growing demand for a clean energy future

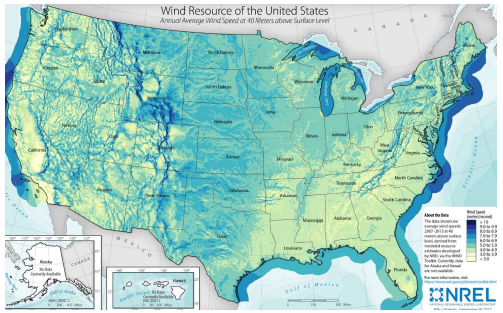
Long-Term Transmission Planning

- **Holistic, comprehensive planning approach avoids band-aid fixes**
- **Allows PJM to consider different scenarios:**
  - Allows PJM to plan transmission more effectively for carbon-free future
  - Supports transmission expansion for renewable-rich, developable areas
    - -- Renewable resource maps are available publicly, from NREL, and even from States themselves
    - -- Allows a different perspective than a Queue view
  - Studying different scenarios allows PJM to identify common transmission "weak points"
- **Allows PJM to consider long term benefits when addressing short-to-intermediate term needs**

New Jersey Department of Environmental Protection Solar Siting Analysis



National Renewable Energy Lab Wind Resource Map



NEXTera ENERGY TRANSMISSION MIDATLANTIC

Long-Term Planning should convert information gained from Long-Term Studies into strategic transmission investment decisions

Long-Term Studies ≠ Long-Term Planning

- **Effective Long-Term Transmission Planning is leveraging Long-Term Scenario studies to strategically impact transmission investment decisions to meet the needs of both today and tomorrow.**

- **PJM can integrate Long-Term Planning to enhance its existing planning processes to:**
  - Consider a sufficient horizon with which to evaluate significant transmission investment
  - Consider scenarios that effectively bookend potential future outcomes
  - Identify bulk electric system solutions that provide significant system benefits
  - Assess common needs across multiple long-term scenarios
  - Ensure project scopes for short-to-intermediate term needs are robust enough for the long-term

NEXTera™ ENERGY TRANSMISSION MIDATLANTIC