

## Powering and Repowering New York's Energy Future

New York has set some of the most aggressive renewable energy generation targets in the nation. But not only will achievement of those targets require a massive deployment of new renewable energy generation, it will also demand unprecedented investment in the State's transmission infrastructure to bring new upstate and offshore generation to load centers and require that existing renewables—especially vintage onshore wind facilities nearing the end of their useful life—be repowered and retained within the State's existing baseline.

# 100%

zero-emissions electricity by 2040



### POWERING – ENCOURAGING TRANSMISSION BUILDOUT

New renewable development both onshore and offshore will require significant new and upgraded transmission infrastructure to feed major load centers in New York City, where only about 21% of electricity is zero emissions. Land-based utility-scale renewables are sited in predominantly rural areas, and existing transmission bottlenecks must be cleared to ensure new generation can reach consumers. New York is trying to address these challenges by:

**Proposing Permitting Reforms**, including the proposed RAPID Act, which would put New York's Office of Renewable Energy Siting (ORES) in charge of transmission permitting and impose a one-year deadline for a State decision on a transmission proposal, and previous Article VII legislation which provided expedited permitting for lines sited "substantially within existing rights-of-way" or which lack significant impacts.

**Awarding Contracts to Transmission Projects.** In 2022, NY awarded 25-year "Tier 4" contracts to two projects designed to supply a third of NYC's energy needs with renewables: the Champlain Hudson Power Express (CHPE) project, a 339-mile HVDC line extending from Quebec to Queens, and the Clean Path New York (CPNY) project, a 179-mile HVDC line extending from the Western Catskills to the East River.

**Seeking Offshore Connection Solutions** to bring approximately 9,000 MW of offshore wind to shore.

**Encouraging 15,000 MW of Energy Storage**, approximately 7,300 MW of which will be deployed in NYC.

**Expanding Bulk Transmission and Upgrading Distribution** statewide to integrate distributed generation.

### REPOWERING – RETAINING CRITICAL LEGACY WIND RESOURCES

The first wind farms in New York came online in 2000; by 2006 the 320 MW Maple Ridge Wind Farm was in operation, at the time representing the largest wind farm in the State. The Empire State's earliest wind projects are reaching the end of their useful lives, and the process of repowering these projects is underway, representing the next chapter in New York's renewable energy journey.

New York currently has over **2,408 MW** of installed wind capacity. For New York to achieve its renewable energy goals, it is critical that this capacity be maintained.

In October 2023 NYSEDA awarded contracts to 6 repowering projects totaling 612 MW:

- Bliss Windpark
- Wethersfield Windpark
- Altona Windpark
- Chateaugay Windpark
- Clinton Windpark
- Ellenberg Windpark

**Repowering of these projects is subject to the jurisdiction of the Office of Renewable Energy Siting (ORES), formed by statute in 2020, and the permitting process currently falls under NY Executive Law Section 94-c.**



### REFERENCES

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