

New York State Tier 4 Renewable Energy Projects



TIER 4 PROJECTS:

**\$460 million
in community
investment funds**

**\$4 billion in avoided
public health costs**

10,000 jobs created

**\$8.2 billion in
economic development
investments**

**\$5.8 billion in net
societal benefits**

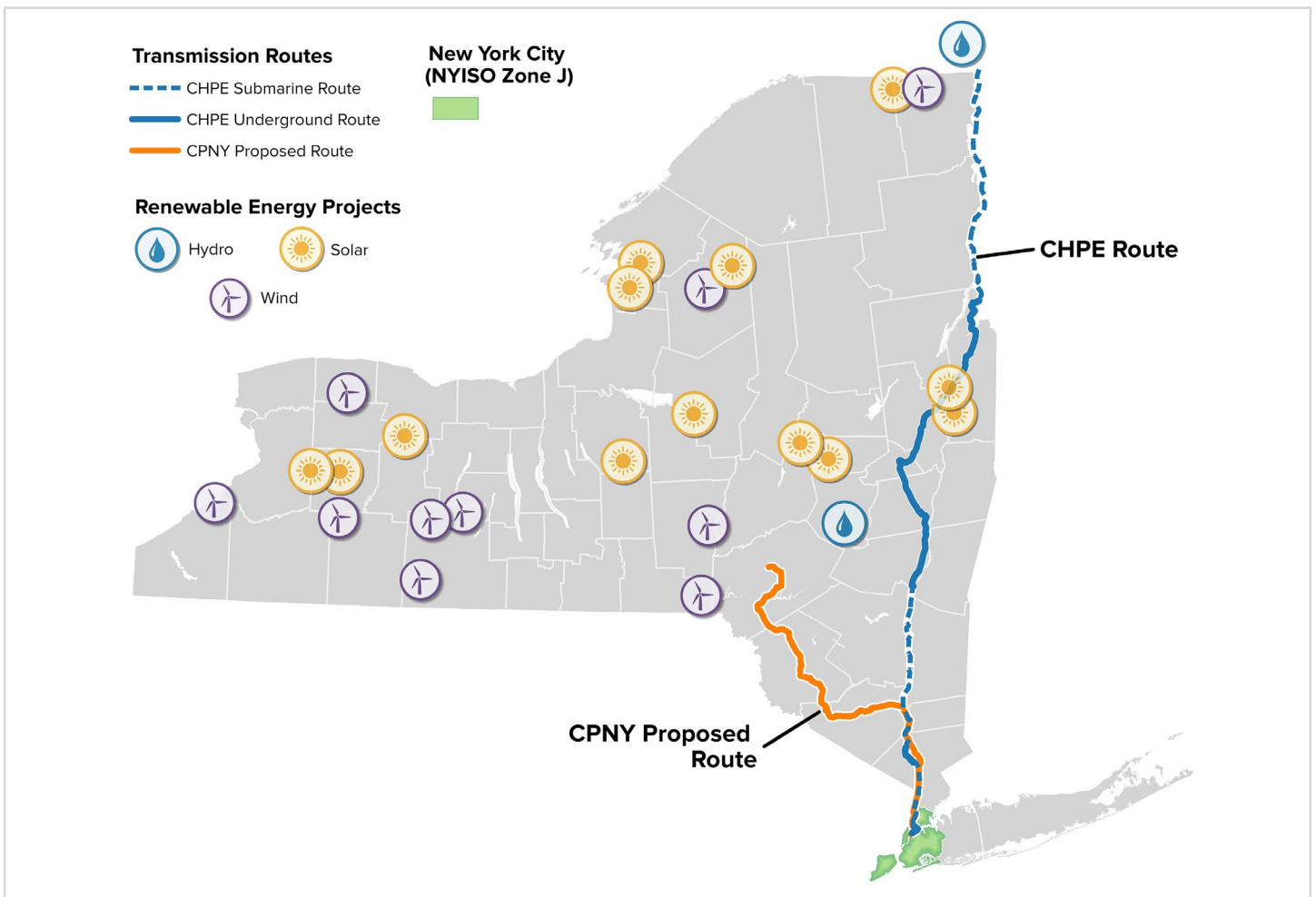
Two major green energy infrastructure projects to power New York City with wind, solar, and hydropower from upstate New York and Canada

In November 2021, New York State Energy Research and Development Authority (NYSERDA) finalized contracts for the [Clean Path NY \(CPNY\)](#) and the [Champlain Hudson Power Express \(CHPE\)](#) projects as the result of the State's first-of-its-kind renewable energy and transmission approach, known as Tier 4, which is part of the large-scale renewables program.

These transformational green infrastructure and electric generation projects will help to advance New York City's transition away from fossil fuels and increase resiliency and reliability of the power grid by generating **an expected 18 million megawatt-hours of clean energy per year, or more than a third of New York City's annual electric consumption.** When combined with the State's clean energy pipeline and deployment of offshore wind, CPNY and CHPE **will reduce the City's fossil fuel use by more than 80 percent in 2030**, helping reduce some of the largest emitting fossil fuel generating facilities.



In April 2022, the Tier 4 contracts were approved by New York's Public Service Commission, representing the largest transmission infrastructure development in New York State in the last 50 years. The Tier 4 projects will significantly accelerate progress to exceed New York State's goal for 70 percent of the State's electricity to come from renewable sources by 2030 on the path to a zero-emission grid as outlined in the Climate Leadership and Community Protection Act ([Climate Act](#)).



Clean Path NY Projected In-Service Date: 2027

Developer: Forward Power (a joint venture of Invenergy and energyRe) and the New York Power Authority (NYPA)

Project at a Glance:

- A 1,300 megawatt, 175-mile, underground transmission line to begin commercial operation in 2027.
- Delivers nearly 7.9 million megawatt-hours from upstate wind and solar facilities to New York City annually.
- Uses NYPA's existing Blenheim-Gilboa Pumped Storage Facility to help ensure energy is delivered to New York City when needed.
- Transmission line runs from the Fraser Substation in Delaware County to the Rainey Substation in Queens.
- Proposes to utilize a buried underground and underwater cable using existing rights-of-way to mitigate potential community impact, avoid sensitive habitats along the Hudson River, and provide more resilience than above-ground alternatives in the face of severe weather and security threats.

For more information, please visit CPNY's website:
cleanpathny.com

Champlain Hudson Power Express Projected In-Service Date: 2026

Developer: Transmission Developers, Inc. (backed by Blackstone) and Hydro-Québec

Project at a Glance:

- A 1,250 megawatt, 339-mile, transmission line to begin commercial operation in 2026.
- Delivers 10.4 million megawatt-hours of hydropower energy to New York City annually.
- CHPE's use of hydropower will deliver consistent, baseload energy to New York City, enhancing the reliability and resiliency of the City's power grid.
- Runs from the Province of Québec in Canada to the Astoria Energy Complex in Queens.
- The fully permitted transmission line is buried underground and underwater.
- Includes purchase of electricity from the Apuiat wind farm being jointly developed by Innu communities and Boralex.
- Partnership with the Mohawk Council of Kahnawà:ke for joint ownership of the line in Québec that will connect to CHPE.

For more information, please visit CHPE's website:
chpexpress.com

2023 Project Status

Champlain Hudson Power Express

Terrestrial construction on the U.S.-based portion of the CHPE line in upstate New York has begun following the approval of their first Environmental Management and Construction Plan (EM&CP).

EM&CPs will be required for additional terrestrial, marine segments and the converter station in Astoria, Queens. Draft and final EM&CPs, along with a projected submission schedule can be found on the Department of Public Service's website under [Case Number 10-T-0139](#).

Project labor agreements securing union labor for the terrestrial route have been executed and additional agreements are in progress. CHPE's \$40 million Green Economy Fund has been established and will be releasing its first public solicitation for funding in 2023. Also close to \$40 million has been distributed to host communities following financial close.*

Clean Path NY

The CPNY project is advancing through the Article VII permitting process, which is managed by the New York State Public Service Commission. Permit activities can be found on the Department of Public Service's website under [Case Number 22-T-0558](#).

CPNY has also initiated the interconnection process with the New York Independent System Operator, and intends to enter Class Year 2023.

Next Steps

NYSERDA is actively tracking the Tier 4 projects to ensure contract compliance, monitor project schedules, permitting processes and the rollout of economic benefits.

The Tier 4 program is a complex and entirely new component of New York's clean energy strategy and involves the consideration and analysis of many new requirements to develop the Tier 4 implementation plan. Payments for renewable energy credits will only commence for each respective project once the project has obtained all required permits and local approvals, has completed construction, and is delivering power to New York City.

Learn more about the Tier 4 large-scale renewable energy program.

Visit nyscrda.ny.gov/tier4 or reach out to us at Tier4@nyscrda.ny.gov



Tier 4 Project Costs

- Once the Tier 4 projects enter operation, the average bill impact for customers will be approximately three percent, or \$3 per month.
- These contracts will utilize an Index Renewable Energy Credit (REC) structure to help cushion customers against spikes in energy prices so when electricity prices rise the Tier 4 program costs go down.
- Tier 4 RECs will also be available for purchase through sale agreements, such as with New York City and a voluntary sale process that will help defray the program cost.

**These figures are based on information provided by the project and have not been verified by NYSERDA.*



NYSERDA