

CHPE

CHAMPLAIN HUDSON
POWER EXPRESS



REAL. CLEAN. POWER.

See how we're ready to power New York into the future.



CHAMPLAIN HUDSON POWER EXPRESS

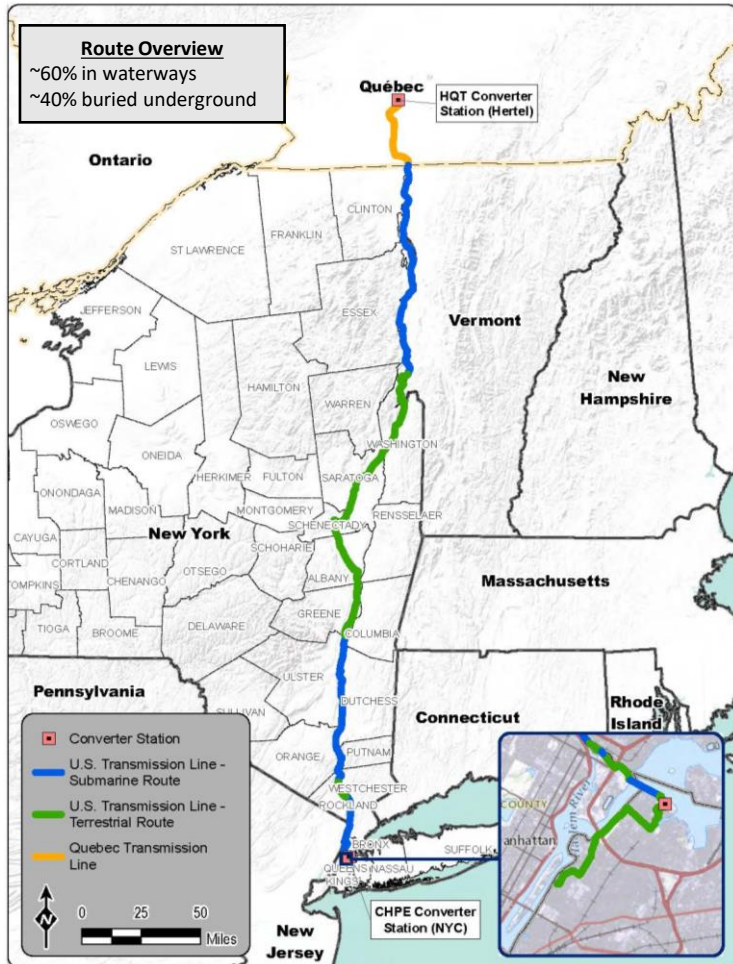
A RENEWABLE ENERGY SOLUTION FOR NEW YORK CITY



NOVEMBER 15, 2023



Champlain Hudson Power Express (“CHPE”) – Background



CHPE LLC is supported by world class suppliers, engineers, and energy infrastructure builders, and backed by Blackstone (NYSE: BX), one of the world's leading alternative asset managers.

Project Overview

- 1,250 MW fully buried HVDC transmission project
- Delivering 10.4 TWh/yr. of new clean energy (enough to power +1MM homes)
- Construction commenced Q4 2022

Business Model

- Merchant transmission project selected by NYSERDA through a competitive RFP process to transport Canadian renewable energy directly into NYC
- Host municipalities in New York will receive ~\$1.4 billion in new tax revenue over the first 25 years of the project, benefiting 73 municipalities and 59 school districts

Regulatory & Community Support

- All major permits received (Article VII, Presidential Permit, Army Corps Permit)
- Widespread support (environmental, union, business, host communities)
- Strong local support as evidenced by 36 municipalities passing resolutions of support for the project

Environmental & Economic Benefits, Energy Resiliency

- Estimated to decrease carbon emissions by ~37 MM metric tons over the first 15 years and reduce harmful local air pollutants by ~20%⁽¹⁾
- Significant economic benefits in New York – project will utilize organized labor and is estimated to create over 1,400 direct jobs during construction and an additional +3,000 secondary jobs⁽²⁾
- Buried infrastructure will make New York's aging energy grid safer, more resilient, and more reliable in climate change related events
- First conversion of fossil generating site to clean energy site in Astoria, Queens

(1) Equivalent to removing 44% of passenger vehicles from New York City streets.

(2) Source: PA Consulting.

Buried Transmission vs. Overhead Transmission


CHPE's buried, resilient design mitigates damage from extreme weather events where overhead transmission lines are more susceptible to damage causing large scale power outages.

Here is how CHPE will help:

- CHPE's Canadian hydropower source is geographically distinct from NYC and neighboring states and less likely to experience similar weather conditions at the same time as NYC
- Hydropower from the HQ system would be available on demand around-the-clock, providing clean energy to back up other renewables
- CHPE will be buried, safe, and resilient, and will have blackstart capabilities ensuring firming power is available within minutes of any power shortage allowing for lights, air conditioners, and other vital resources to stay powered

All of New Orleans without power after Hurricane Ida leaves 'catastrophic transmission damage'


BY AMIE JUST | STAFF WRITER
AUG 29, 2021, 7:15 PM



As the sky clears after the departure of Hurricane Ida, New Orleans remains mostly without power except for those with generator power seen behind the darkened Caesars Superdome Monday, Aug. 30, 2021. (Photo by Max Becherer, NOLA.com, The Times-Picayune) | The New Orleans Advocate

A slow-moving Hurricane Ida has left all of Orleans Parish customers without power due to "catastrophic transmission damage," according to Entergy New Orleans.

The intense storm had caused all eight transmission lines into the New Orleans area to go down, spokesman Brandon Scardigli said in an emailed statement. That created a load imbalance that knocked all power generation in the region offline, Scardigli said.



Few specks of green remain on Entergy's outage map of the greater metro of New Orleans as of 7:15 p.m. Sunday. (Screenshot from Entergy's website.)

THE WALL STREET JOURNAL

California Blackouts a Warning for States Ramping Up Green Power

State has struggled to keep lights on during heat wave that has exposed its difficulties matching power demand with supply

By Katherine Boehlein
AUG 17, 2020 12:08 PM ET

California's grid operator called twice for emergency outages over the weekend due to inadequate power supplies. Power lines in California on Monday.

The state's grid operator called twice for emergency outages over the weekend due to inadequate power supplies, in part because demand peaked as solar production began its evening decline. California has been relying far more heavily on natural-gas-fired power plants, which, unlike wind and solar farms, aren't dependent on the weather to produce energy.

Gov. Gavin Newsom criticized the state's grid operator and utility regulator in a letter Monday, saying that their "failure to predict these shortages is unacceptable particularly given our state's work to combat climate change."

"These blackouts, which occurred without prior warning or enough time for preparation, are unacceptable and unbefitting of the nation's largest and most innovative state," the Democratic governor said, adding that he was notified just "moments before" they started. "Grid operators were caught flat-footed," he said.

ENVIRONMENT

Climate Change Lesson From California's Blackouts: Prepare For Extremes

By David Mervin
AUG 18, 2020, 1:44 PM ET

Scorching heat across the Western United States has left California scrambling to avoid rolling blackouts, as air conditioners send electricity use soaring.

Some people blame the power outages on California's reliance on solar power, which drops off when the sun sets. But energy experts say state officials failed to prepare adequately for high temperatures, despite the fact that California's own scientists and regulators have warned that increasingly common heat waves driven by climate change would stress the electricity grid.

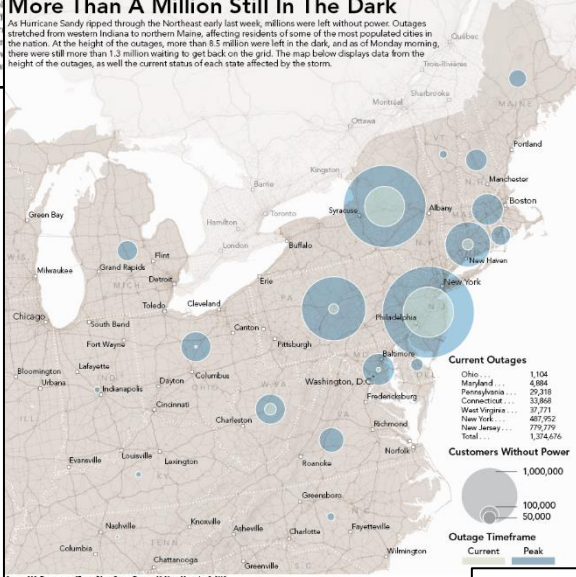
"You can't control the weather, but you can prepare for the weather events," California Governor Gavin Newsom said. "And let me just make this crystal clear, we failed to predict and plan for these shortages."

The California Independent System Operator runs most of the state's grid, the system of transmission lines that takes electricity from power plants to communities. As temperatures roared above 100 degrees in some parts of the state over the last week, California ISO knew the end of each day would be the toughest.

When the sun sets, the state's fleet of solar farms turns off. With the state's growing clean energy mandates, renewables have become a significant source of energy, reaching up to 30 percent of the supply during the day.

More Than A Million Still In The Dark

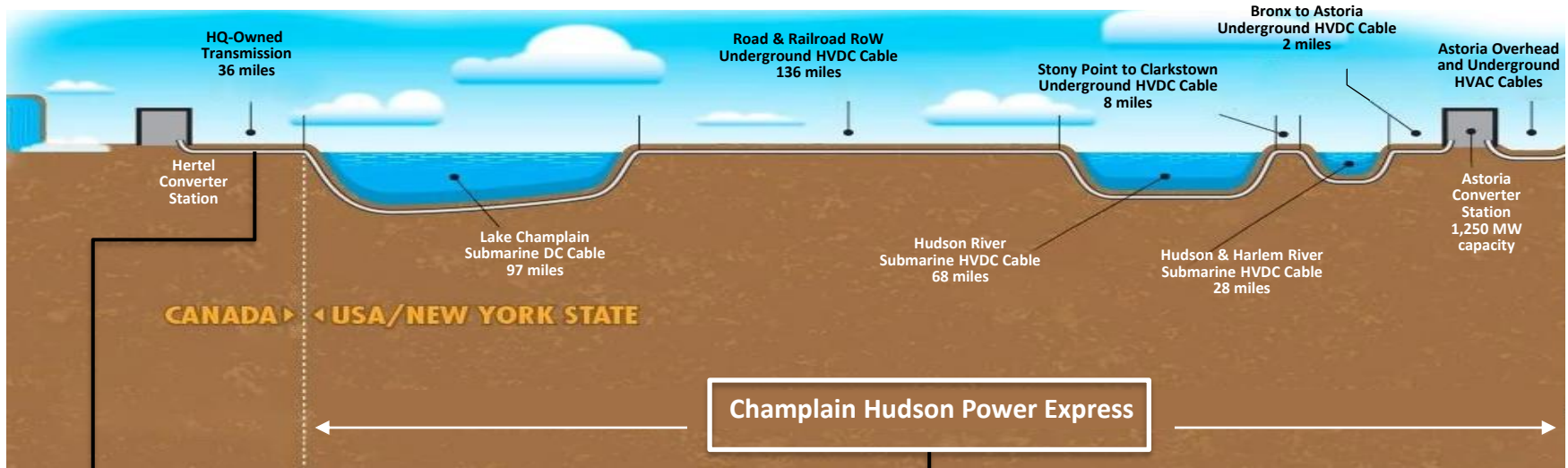
As Hurricane Sandy ripped through the Northeast early last week, millions went left without power. Outages stretched from western Indiana to northern Maine, affecting residents of some of the most populated cities in the nation. At the height of the outages, more than 8.5 million were left in the dark, and as of Monday morning, sparks and hot wires still more than 1.2 million waiting to get back on the grid. The map below displays data from the height of the outages, as well as the current status of each state affected by the storm.



State	Customers Without Power
Ohio	1,104
Maryland	4,884
Pennsylvania	29,318
Connecticut	33,868
West Virginia	37,771
New York	487,052
New Jersey	779,779
Total	1,374,676

Legend:
 - Current Outages: 1,000,000 (largest circle), 100,000 (medium circle), 50,000 (smallest circle)
 - Outage Timeframe: Current (blue), Peak (red)

"The Most Powerful Project You'll Never See"



The Hertel–New York Interconnection Project

- Located entirely within Canada, originating in La Prairie, Québec and traveling underground/underwater approximately 36 miles (58 km) to the New York-Canadian border
- Will be owned, operated and maintained by Hydro-Québec

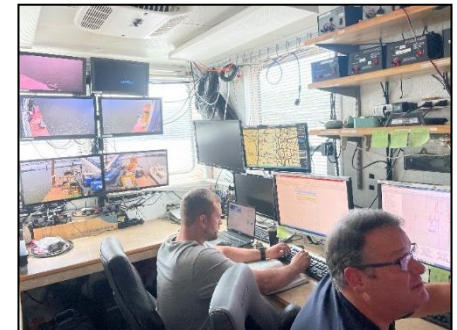
The Champlain Hudson Power Express ("CHPE")

- The U.S. portion of the transmission system, traveling underground/underwater ~339 miles (545 km) from the Canadian border to Astoria, Queens
- Will be owned, operated and maintained by CHPE LLC

Right-of-Way Acquisition / Co-Location Approaches

Submarine Route	
Lake Champlain	~97 miles
Hudson River	~89.5 miles
Harlem River	~6.5 miles
Total Submarine Route	~193 miles

Terrestrial Route	
Railroad ROW	~108 miles
NY State / County / Municipal Roads	~34 miles
CHPE-Controlled Property	~4 miles
Total Terrestrial Route	~146 miles



Mileage subject to change based on final route design.

HVDC Transmission – Proven Technology

HVDC Transmission Cables

- High voltage direct current cable (HVDC) technology is a safe, reliable, time-tested technology -- ideal for transporting electricity over long distances with minimal losses
- Two, five-inch diameter XLPE cables are buried / submerged along the route
- No environmental exposure / shock / magnetic field issues (cables are solid-state with no insulating fluids)



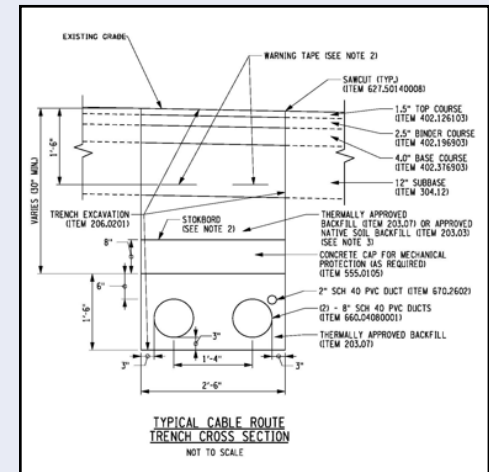
VSC Converter Station

- High voltage direct current converter (HVDC) converter technology is a safe, reliable, time-tested technology used worldwide for nearly 70 years
- Utilizes Voltage Source Converter (VSC) technology to convert power from AC to DC in Quebec and back to AC in Astoria.
- Provides reactive power (voltage support) that stabilizes the electric grid and provides black start capability for New York City's electric system



Installation Overview

- Cables buried ~5 - 8 feet under the ground within conduits with protections installed to prevent damage and inadvertent intrusion
- Installation closely coordinated with right-of-way owners including, NYSOGS, NYSDOT, municipalities, NYCDOT, and NYC Parks
- Installation impacts deemed minimal by State and Federal Agencies



New York Independent System Operator (NYISO) Interconnection Process



Multi-step process to interconnect to grid:

- Developer files Queue Position (CHPE: Q#631 and Q#887) with NYISO
- NYISO performs System Reliability Impact Study (SRIS) to determine if project can safely and reliably connect to the grid
- Developer enters project into eligible NYISO Class Year
- NYISO models all Class Year participants together to determine what System Upgrade Facilities (SUF) / Connecting Transmission Owner Attachment Facilities (CTOAF) are required for all projects to safely and reliably connect to the grid
- NYISO determines SUF and CTOAF costs and allocates those costs to each project depending on their grid impacts
- Developer decides whether to accept or reject cost allocations:
 - If developer accepts cost allocations, developer posts security to ensure upgrades will be constructed
 - If developer rejects cost allocations, project is withdrawn from the Class Year

Regulatory Overview – Fully Permitted with Broad Support

CHPE is the only scale, permitted renewable energy solution that can replace half of Indian Point's power supply while contributing significantly towards NY State's renewable goals and creating substantial jobs.

Substantial outreach, transparency, and partnership building have yielded strong support from stakeholders including towns, environmental groups, elected officials, and labor unions.

Permits & Authorizations

[NY State Water Quality Certificate](#)

[NY State Article VII Certificate](#)

[U.S. Department of Energy Environmental Impact Statement](#)

[Presidential Permit](#)

[U.S. Army Corps Permit](#)

[Additional Authorizations](#) by National Marine Fisheries, U.S. Fish and Wildlife Service, U.S. Department of State, U.S. Department of Defense, FERC



lohud.

North Rockland mayors: We proudly said 'yes' to the Champlain Hudson Power Express

Published 10 days ago at 11:04 AM, 2019

File "CHPE would zap New York," March 13

Community View

As the mayors of Haverstraw and West Haverstraw, two municipalities directly impacted by the Champlain Hudson Power Express, we'd like to talk about the benefits this completely buried clean energy project provides North Rockland communities and the number of jobs the project will create.

Having worked diligently on this issue we can definitively state the project's benefits clearly outweigh the cost of temporary construction along approximately 8 miles of routes in North Rockland communities.

Clear benefits

Some of these benefits are outlined in Memorandums of Understanding signed by the project's developer and the towns of Skaneateles, Haverstraw and Cortlandt, and the Villages of West Haverstraw and Haverstraw.

FOOD & WATER WATCH: Cuomo's energy goals fall flat

NY ENERGY CDAR: Cuomo leads in clean power

These binding agreements specifically contain \$31 million in fund capital improvements in our communities, and include:

recordonline.com

It's now time to keep that energy promise

Posted on 3, 2022 at 2:00 AM

Energy will be on the minds of legislators when they return to Albany this month. They already are on record promising that the state will be producing all of its electricity from carbon-free sources in a few decades.

Now, they have to decide how to reach that goal.

They know that one of the largest energy sources, the Indian Point nuclear plant, will be closing meaning that they will have to account for that deficit and fill it quickly. Nobody is suggesting the construction of new nuclear plants, although nuclear is undergoing a renewed stage of interest around the world.

In the short term, legislators will have to consider if they want to continue subsidizing nuclear plants (some that have become a significant element in the quest for carbon-free energy, subsidies that will cost New Yorkers more than \$7 billion over a dozen years).

Also on their minds, if not specifically on any agenda yet, is wind power and especially the construction of giant turbines in rural areas to send electricity to cities. In a tight race to meet our state's goals, we should be looking at other rural construction options to what they consider a blight on their landscape providing them with little direct benefit while producing power that goes to the metropolitan area.

Rural areas are familiar with being on the list, too, from the development of the reservoir system that drained wetlands and imposed restrictions on farming and agriculture to the towers that split communities as they carried power from development to homes.

With the metropolitan area demanding the Albany political power structure, the question for other legislators seems to be what concessions, what payments or reductions in rates they can get for their constituents as the state continues to serve the interests of New York City and its suburbs.

Organized labor powers our energy future

lohud.

Published 2 days ago at 11:04 AM, 2019

An important topic at the forefront of our statewide discussion has been energy diversity, energy needs and the impact of those pending decisions on New Yorkers and the greater region.

While the debate continues, there is a project to celebrate where common ground was plotted, good-paying jobs will be created and addressing New York City's growing energy demand is the result. That is the Champlain Hudson Power Express (CHPE) project.

[https://www.lohud.com/story/news/politics/economy/2019/03/26/organized-labor-powers-energy-future/3278480002](#)

Of the myriad of positive benefits, the highlight is bringing 1,000 megawatts of clean, reliable and renewable power more than 330 miles to New York City as a first step toward its energy diversity goals.

This was made possible by bringing New York business and labor together to see this through. The project, which will be built entirely by the hard-working men and women of organized labor, will create more than 1,500 "Green Economy" construction jobs. In addition, there will be more than 1,000 indirect jobs for suppliers and local business created by this transmission line beginning in the North County, to the Capital Region, down through the Hudson Valley and into New York City.

Members of Operating Engineers, Local 825, will be put to work on some of the most complicated portions of this project where burying the two approximately 5-inch-diameter cables adjacent to roadways and railroad tracks will take the type of skill only they possess. These buried lines hold the promise of maintaining New York's incredible beauty while adding resiliency from storms. The thoughtful response is one of the many reasons the project has received support from municipalities — up and down the project route — that many of our members call home.

This project would not have been made possible without the commitment from CHPE from the very beginning that labor would not only have a seat at the table but would be working on the project and advocating on behalf of the project.

Labor has played a key role in every great New York transition. We built the Manhattan skyline. We constructed the railroads and roads that span our great state. We built our great parks and ports. We ensure that our workers are safe and that our members make a living wage while helping reinforce infrastructure. Our union — nearly 7,200 regional members strong that are part of a larger workforce of more than 400,000 — want to keep the green economy jobs coming.

A New Opportunity to Expand Hydroelectricity in New York



This past June, New York passed historic legislation to address climate change and set strict clean energy standards. New York must achieve 100% clean energy by 2040, which means we'll need more renewable energy projects on the ground. To achieve these ambitious energy goals, New York will need significant offshore and land-based wind, large scale and distributed solar installations, and hydropower. A new project to transmit hydropower can help us reach this goal.

The Champlain Hudson Power Express (CHPE) is a planned transmission cable connecting hydro energy sources to residents in the downstream region. This project will reduce New York's dependence on fossil fuels and provide a projected 1,000 [megawatts of renewable energy](#).

The CHPE project [completed the required regulatory reviews](#) by federal, state, and local authorities and will move forward once contracts for its energy are in place.

Starting more than a century ago, with the opening of the Niagara Falls hydroelectric dam, New York has led in hydroelectricity. East of the Rockies, New York is the [largest hydroelectric power producer](#), taking full advantage of this plentiful and renewable resource. Hydropower is still the [largest source of renewable energy](#) in New York.

For years, the state has faced challenges [transporting energy from where it is produced](#) to populate New York. In the [most populated metropolitan areas](#). By tapping into an already-existing hydropower source with a new direct transmission line, we will soon be able to increase clean energy access in the downstream region.

The completion of this project will help the State achieve 100% clean energy. Along with helping New York advance its [clean energy goals](#), this project will also provide significant economic benefits to the state. It is estimated that with construction and operational work, the project will create [3,000 jobs](#) and add [\\$28.6 billion in economic benefits](#) to the state.

NYLCV supports the Champlain Hudson Power Express and the development of renewable energy sources to power the New York electric grid. By investing in this green resource, we can reduce emissions and fossil fuel use.

CITY STATE

ENERGY & ENVIRONMENT

How will New York replace Indian Point?

How will New York state replace Indian Point nuclear power plant?

By CHPE | 01/11/2019, 09:30 AM

One of New York's biggest energy debates has even bigger stakes: How can Andrew Cuomo announce a deal this year to close the Indian Point nuclear power plant? How will the state generate enough replacement power for the downstream region? Some officials question whether it can be done — or whether the facility's 2,000 megawatts of production can be replaced (cheaply and cleanly). Others say there are plenty of alternatives — especially since the plant won't fully close until April 2021. Here are a few of the options.

CHAMPLAIN HUDSON POWER EXPRESS

Transmission Developers Inc.'s pipeline would deliver Canadian hydroelectric power to the downstream region, with an expected completion date in 2021.

Megawatts: Up to 1,000

Notes: The project would be sited by the state Indian Point fully shuts down.



The Importance of Stakeholder Engagement in the Private Sector

Then

THE WALL STREET JOURNAL Power Lines Drawn

Energy Plan Creates Unusual Alliances

By Joseph De Avilla
June 18, 2012 10:12 pm ET

A proposal to build a power line underneath portions of the Hudson River and Lake Champlain to deliver electricity to New York City has created an unusual alliance: the Sierra Club, energy companies and a bipartisan group of lawmakers.

They have emerged as a powerful opposing force to the Champlain Hudson Power Express, a \$2 billion, 333-mile power line that would connect the city to power generated by Canadian wind farms and hydroelectric dams.

The Sierra Club opposes the project because, the group said, it does nothing to improve New York's existing power infrastructure. That stand puts the club on the same side as Energy Nuclear, the operator of Indian Point Energy Center, a nuclear power plant the Sierra Club has advocated closing.

"Being on the same side of Energy, I think we have different interests as stakeholders," said Annie Wilson, chairwoman of the group's New York City energy committee.

Energy spokesman Jim Stevens said the company opposed the Hudson power line because "the state needs to upgrade its transmission grid. The problem with this project is that it doesn't really do that."

Meanwhile, lawmakers have co-sponsored a bill to block the transfer of power originating in another country into New York, essentially prohibiting the Hudson power line. The lawmakers include state Sen. George Mazza, a Buffalo-area Republican, Assemblyman Andrew Hess, a Queens Democrat, and others who don't normally team up on legislation.

FINANCIAL POST

Americans aren't just blocking our oil pipelines, now they're fighting Hydro-Quebec's clean power lines

Renewable energy powerhouse's plan to light up U.S. northeast encounters opposition from local groups, fossil fuel rivals

Gabriel Friedman
Sep 29, 2021 • October 1, 2021 • 8 minute read • 151 Comments

But just as oil and gas companies have encountered opposition to nearly every new pipeline, Hydro-Québec is finding resistance as it seeks to expand its pathways into major export markets, which are all in the U.S. northeast. Indeed, some fossil fuel companies that would be displaced by Hydro-Québec are fighting to block the construction of its new transmission lines.

"Linear projects — be it a transmission line or a pipeline or highway or whatever — there's always a certain amount of public opposition," Gary Sutherland, director of strategic affairs and stakeholder relations for Hydro-Québec, told the Financial Post, "which is a good thing because it makes the project developer ask the right questions."

Patch Peekskill-Cortlandt, NY

David vs Goliath – Champlain Hudson Power Express: A Bad Idea

Rob DiFrancesco, hngbr
Posted Thu, Nov 21, 2013 at 12:14 pm ET

The Stony Point hearing attracted about 250 people, the vast majority of whom strongly oppose the project. This included community members whose property would be subject to eminent domain, Sons of the American Revolution who asked to stop the Canadian line from unearthing their ancestors' graves, and other leaders who oppose the project.

The environmental group Scenic Hudson commented that it supported the high voltage transmission line only after CHPE created a \$17 million settlement fund and agreed to move the route from certain sensitive aquatic areas in the Hudson River. This prompted heckling from the crowd calling for the line to "stay in the river" and chants of "people over fish." However, the Sierra Club Atlantic Chapter responded that the line should **not** be built altogether citing the **destruction of natural rivers in Canada** to power the line and sacrificing in-state renewable energy solutions.



Proposed Champlain Hudson Power Line is a Bad Deal for New York State

IPPNY's Brief and Expert Testimony in PSC Hearing Show

Power Line Costs Significantly Trump its Benefits

Albany, N.Y., 9/7/12 - The Independent Power Producers of New York, Inc. (IPPNY) today filed with the New York State Public Service Commission (PSC) its final brief in opposition to Champlain Hudson Power Express, Inc.'s (CHPE) application for a Certificate of Environmental Compatibility and Public Need to construct a proposed transmission line from Canada to New York City. During the Project's Article VIII Transmission Line Siting proceeding at the PSC, IPPNY has demonstrated critical pitfalls concerning the economics of the Project and the associated risk to New York State residents and businesses. New York's energy marketplace simply cannot provide sufficient revenues to support the unneeded and uneconomic transmission line, meaning the Project would require significant subsidies to be built and become operational.

Now

Tribal, Municipal, Elected Official & Public Support

- ✓ Letter of support from Mohawk Council of Kahnawake in Canada, a project partner
- ✓ 38 resolutions of municipal support
- ✓ 18 letters of support from elected officials across New York State
- ✓ 3000+ letters of support from members of the public who care deeply about the environment and New York's future

3000+
statements of support

Organized Labor

- ✓ 8 letters of support from leadership of NYS labor unions including: IBEW, NYS Laborers, Operating Engineers, ELEC & Building and Trades
- ✓ 700+ letters from individual members of NY Laborers
- ✓ 30+ letters from members of IBEW
- ✓ 50+ letters from members of Operating Engineers

750+
expressions of support from organized labor

Business & Real Estate Advocacy Organizations

- ✓ Support from NYC real estate organizations: REBNY, Brookfield, SL Green, Tishman Speyer, RXR & Vornado
- ✓ 11 letters from NYS Chambers of Commerce & the Business Council of New York State
- ✓ 13 letters of support from NYS county industrial development agencies

25+
letters of support from businesses and real estate

Academics & Environmental Organizations

- ✓ 16 letters from organizations advancing environmental awareness and support in NYS including: NYLCV, Citizens Campaign for the Environment, Nature Conservancy NY, Urban Green Council & Climate Reality Project
- ✓ 9 letters from academics at, and representatives from, prestigious New York higher-education institutions such as, Columbia, NYU Law & SUNY Plattsburgh

25
letters of support from advocacy organizations and higher education



Letters of Support received from Leadership of NYS labor unions including: Laborers, IBEW, NYS, Operating Engineers, ELEC & Building and Construction Trades Council.

Project Benefits – Summary

One of the largest private investments in NY State history, \$3.5 Billion in direct NY expenditures*

\$1.4 Billion in new Property Taxes for over 150 communities*

1,400 new organized labor construction jobs for New Yorkers with strong Labor Support

\$40 Million Green Economy Fund and \$117 Million Enhancement, Restoration, and Research/Habitat Improvement Trust Fund

* Over first 25-year period.

Appendix – Project Progress Photos

CHPE Groundbreaking Ceremonies in Whitehall and Astoria, NY



Governor Kathy Hochul ✓
@GovKathyHochul

Today New York took a huge step towards meeting our nation-leading clean energy goals!

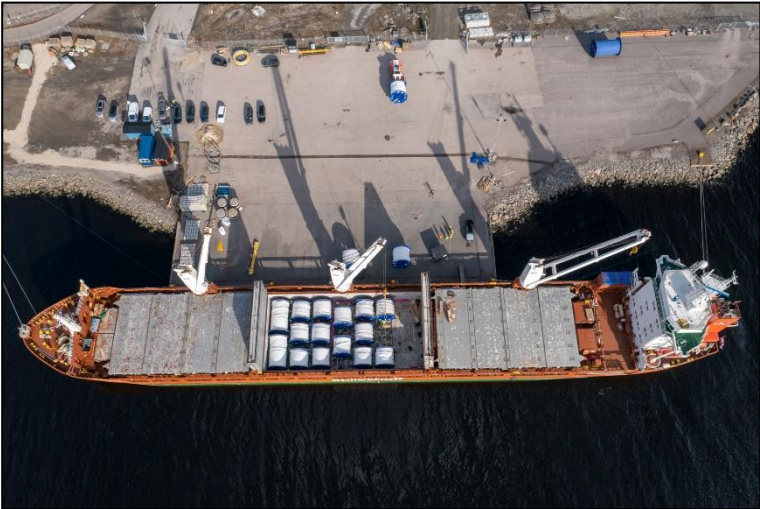
The @CHPEexpress transmission line is a transformative project that will power more than one million homes, create nearly 1,400 green jobs, & help build a healthier future for all New Yorkers.



CHPE Terrestrial Cable Reels – Manufactured in North Carolina and Sweden



Initial CHPE Land Cable Loadout in Karlskrona, Sweden



Initial CHPE Submarine Cable Delivery at the Port of Albany, NY



Terrestrial Construction Activity – HDD and Trenching



Astoria Converter Site Construction – Foundations and Underground Work



Network: Sep 20, 2023 at 7:50:20 AM EDT
Local: Sep 20, 2023 at 7:50:20 AM EDT
N 40° 47' 14.489", W 73° 54' 0.846"
30-15 11th Ave
New York NY 11105
United States

Photo 5



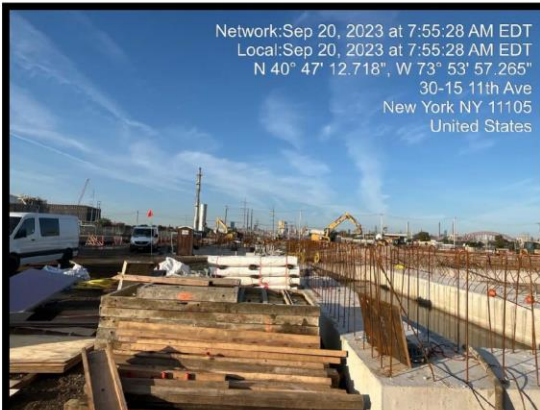
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30-15 11th Ave
New York NY 11105
United States

Photo 6A



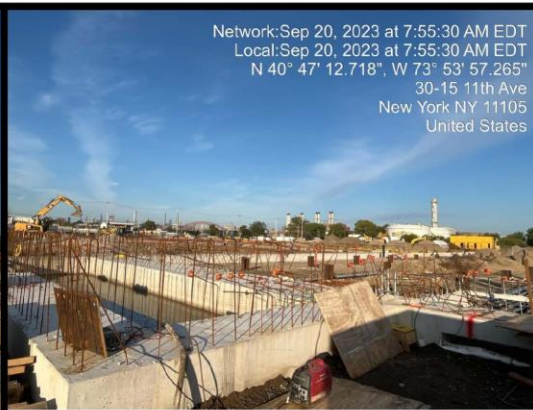
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New York NY 11105
United States

Photo 6B



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New York NY 11105
United States

Photo 7A



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New York NY 11105
United States

Photo 7B



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N 40° 47' 12.718", W 73° 53' 57.265"
30-15 11th Ave
New York NY 11105
United States

Photo 7C

A wide-angle photograph of the New York City skyline, viewed from across a body of water. The skyline is filled with various skyscrapers, including the Freedom Tower on the left. The water in the foreground is dark blue with a shimmering reflection of the sun on the right side. A few small boats are visible on the water.

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