



NORTHERN PASS:

The most **Advanced**
and **Comprehensive**
Energy Solution
for New England

NORTHERN PASS AT A GLANCE



Proven project partners

- **Eversource:** New England's largest energy delivery company and experienced transmission developer and operator
- **Hydro-Québec:** Operators of a vast fleet of clean hydropower generation and transmission facilities and longtime energy supplier to New England
- **Gaz Métro** and **Boralex:** wind power developers both leaders in the energy market who have built a strong expertise in wind power project development over the past 10 years



New, clean power supply will lower costs and improve reliability

- 1,090 MW of firm clean energy from Québec hydropower and on-shore facilities year-round
- New transmission line connects New England to abundant renewable energy resources
- Improves fuel diversity in the region



Clean energy to help Massachusetts achieve Global Warming Solutions Act (GWSA) goals

- Up to 9.4 TWhs of clean, renewable on-shore wind and hydropower annually



Shovel-ready; power to flow in 2020

- 2020 in-service date
- Construction contracts in place and U.S. and Canadian permits expected in 2017
- Approval secured to interconnect to ISO-NE system



Project support in New Hampshire

- 80% of transmission lines co-located along existing transmission rights-of-way or underground in public roads
- Positive community outreach plan with significant support from New Hampshire Governor, labor, and business organizations



Employment and economic benefits

- Hundreds of jobs during construction
- Priority hiring of New Hampshire and Massachusetts workers through a labor agreement with IBEW Locals 104 and 490
- \$10 million committed over 20 years to support Massachusetts low-income energy programs and services
- \$200 million Forward NH Fund supporting investments in clean energy innovation, economic development and community betterment

PROJECT OVERVIEW

The Northern Pass project will bring clean energy and a much-needed new source of electric power to New England.

By providing a new interconnection path between Québec's vast hydroelectric and onshore wind resources and New England, Northern Pass will help Massachusetts achieve the clean energy goals required by its Global Warming Solutions Act (GWSA). It will also create jobs, lower wholesale energy costs, and provide a host of other unique economic benefits to energy consumers in New Hampshire and Massachusetts.

The Northern Pass will fill its new, dedicated transmission line with 1,090 megawatts of firm clean energy year-round, including during winter and summer days when demand for energy is greatest. The generation would combine firm hydropower from Hydro-Québec with new on-shore wind generation located in Québec, provided by a wind developers' partnership between Gaz Métro and Boralex. The wind power will be backed by hydro and includes Class I Renewable Energy Certificates (RECs).

This proposal will ensure cleaner air, energy security, and price stability in the region for decades to come. Shovel-ready, with a 2020 in-service date, Northern Pass is the most advanced and comprehensive energy solution for Massachusetts.



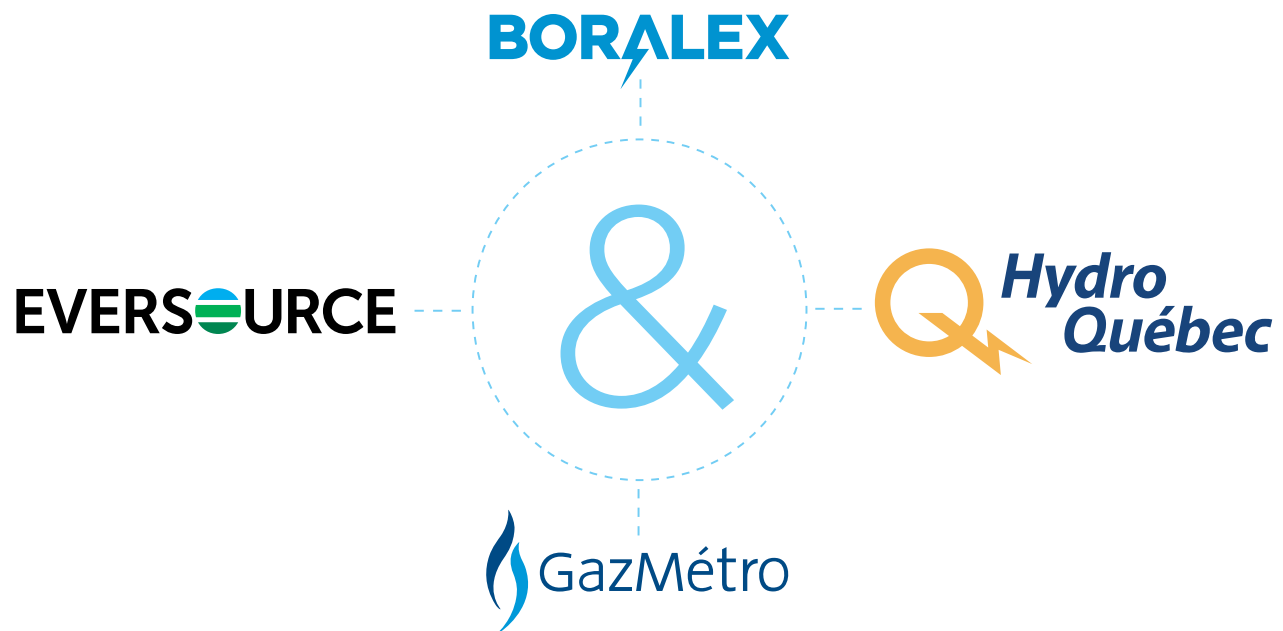
Massachusetts Clean Energy RFP

In August 2016, Governor Charlie Baker of Massachusetts signed into law *An Act Relative to Energy Diversity* (H. 4568). Its aims are to reduce energy costs, enhance reliability, and contribute to the state's greenhouse gas reduction (GHG) requirements.

The Act requires utilities to competitively solicit proposals for up to 9.45 TWhs of clean energy generation from diverse sources, including firm hydropower and onshore wind supported by firm hydropower.

This historic act recognizes the important role of clean energy sources in the supply mix and helps meet the state's GHG emissions reduction targets under the *Global Warming Solutions Act*. It also lays a foundation for the New England region to transition to a cost-effective clean energy future.

In accordance with the Act, a request for proposals was issued in March 2017. The deadline for bids was July 27, 2017, and selection is scheduled for early 2018.



Powerful Partners

The project is a joint proposal of four leading energy companies with extensive experience in the energy markets: local provider Eversource Energy, and Canadian's Hydro-Québec, Gaz Metro and Boralex.

Hydro-Québec has been providing power into New England for decades. With a fleet of 62 hydroelectric generating stations, the company has enough power to supply Massachusetts with even more clean hydropower today, but additional transmission infrastructure is required to deliver this ready supply to the region.

That's where Eversource comes in. Operating New England's largest energy delivery system, Eversource Energy serves 3.7 million customers in Massachusetts, New Hampshire, and Connecticut. It has extensive experience building and operating the transmission grid in the region, and a proven track record of bringing large and complex transmission projects into service, from concept through construction, on time and under budget.

Gaz Métro and Boralex are leaders in the Canadian energy market. They are experienced partners who have been working together for more than 10 years to develop wind power projects in Québec. In addition to their expertise in the wind industry, Boralex and Gaz Métro have gained over the past years a good understanding of North American energy markets through Gaz Métro's Green Mountain Power subsidiary in Vermont and Boralex's hydroelectric power stations in the northeastern U.S.

Lowering Energy Prices and Improving Reliability

Because Hydro-Québec’s power comes from its entire system of hydroelectric generating stations, its hydropower is a constant, permanently available, and flexible energy source that can respond instantly to changes in demand. It is a renewable option that can firm up intermittent renewables such as solar and wind power and support their development. Transported over Northern Pass’ dedicated HVDC line, this combined power source will act as baseload generation.

Thanks to this new energy supply, electric consumers will see a reduction in wholesale energy costs. Further, the Northern Pass project will diversify the region’s energy mix, helping to fill the gap created by the retirement of older generating plants, and reducing reliance on natural gas-fueled resources, particularly during the winter months when the gas pipeline system into New England is constrained.



Helping Massachusetts Meet its Clean Air Goals

Northern Pass will be capable of providing up to 9.4 TWhs of clean energy that the Massachusetts legislation requires.

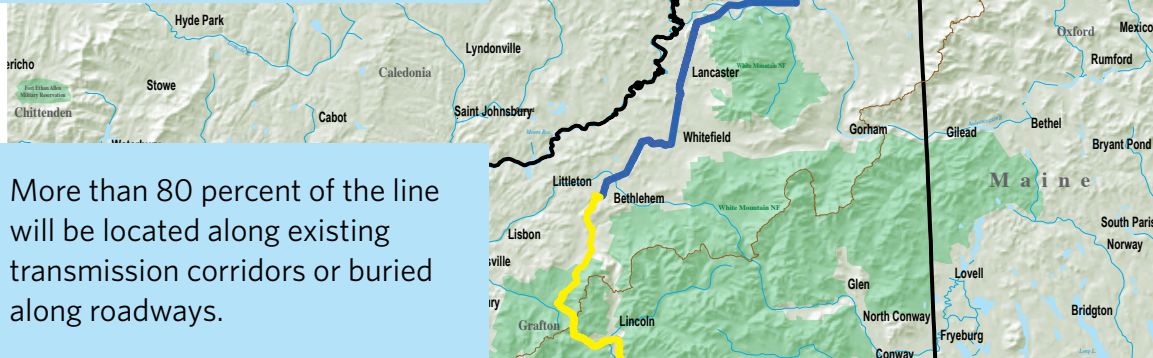
New Jobs and Economic Growth for New Hampshire and Massachusetts

The construction of Northern Pass will bring jobs and other economic advantages to host-state New Hampshire and neighboring Massachusetts. These benefits include:

- **Priority to New Hampshire and Massachusetts workers** through a project labor agreement with the International Brotherhood of Electrical Workers Locals 104 and 490.
- **Northern Pass has finalized an agreement** with Massachusetts low income advocacy organizations Action, Inc., Action for Boston Community Development, and the National Consumer Law Center that commits a total of \$10 million in funding to support low-income energy programs and services for Massachusetts low-income customers over 20 years.
- **As the host state, New Hampshire will receive millions of dollars in benefits**, including increased tax revenue and support for clean energy innovation, economic development, and investment in local communities through the \$200 million Forward NH Fund. These benefits, as well as lower wholesale energy costs, are the reason the project has strong support from many of New Hampshire's business leaders, labor organizations, and elected officials including Governor Chris Sununu.



DELIVERING CLEAN ENERGY TO NEW ENGLAND



- Des Cantons to NH
- Underground Northern Pass Route
- Overhead Northern Pass Route
- Substation
- Converter Terminal

Length of Line in Québec: 79 kilometers

Length of Line in NH: 192 miles

Positioned Years Ahead of Competing Projects



Northern Pass is advanced in its development. It is an engineered project with all state and federal permits expected in 2017, and with all major construction and supplier contracts fully executed. Northern Pass stands alone as the project best positioned to meet the Massachusetts GWSA goals and the region's critical energy challenges.