THE NORTHERN PASS℠

THE NORTHERN PASS PROJECT UPDATE

QUICK FACTS ABOUT NORTHERN PASS

- **The majority of Northern Pass' transmission line structures will be spaced approximately 600–650 feet apart.** The distance between structures depends on the terrain, the height of the structures and proximity to nearby power lines in the right-of-way. Larger spaces between structures generally require taller structures.
- **Nearly 80 percent of the route will be built along existing power line corridors, where one or more power lines have existed for many decades.**
- **Avoiding and minimizing impacts to rivers, streams, lakes, ponds, floodplains and wetlands is an important objective of Northern Pass.** The project has been designed to minimize impacts to these features, and many will be avoided completely.
- **Northern Pass has conducted studies along the route to look for potential habitats of federal and state-listed endangered species.** If any endangered species are identified, Northern Pass will work with state and federal agencies to address concerns and meet the requirements of the Endangered Species Act.
- **The U.S. Department of Energy and other federal agencies are in the process of analyzing the potential environmental impacts of the Northern Pass project.** Those impacts will be addressed in a draft Environmental Impact Statement (EIS) that is expected to be released this spring. The New Hampshire Site Evaluation Committee will also review potential impacts to historic sites, aesthetics, air and water quality, natural resources, public health and safety, and socioeconomic factors.

NEARLY 80 PERCENT OF THE ROUTE WILL BE BUILT ALONG

EXISTING POWER LINE CORRIDORS

WHERE ONE OR MORE POWER LINES HAVE EXISTED FOR MANY DECADES

More information about Northern Pass and the project's technical details may be found online in our Document Library at **northernpass.us/document-library**. There you will find project applications, impact studies, and other public information we've compiled as part of the permitting process.

WHAT THEY'RE SAYING ABOUT THE REGION'S ENERGY FUTURE

"…(ISO-NE CEO Gordon) van Welie, while not alarmist, was sounding the alarm. 'We've already seen worrisome conditions in Greater Boston,' he said. 'That area will be short of needed resources as soon as 2016…If we don't make the pipeline or other infrastructure investments, we should expect to see more volatility going forward, and at times, reliability threats that we may or may not be able to manage.'"

—Dave Solomon's Power Plays: Power Man Sounds Alarm on System's Demands, *New Hampshire Union Leader*, 22 January 2015

"This unexpected good news does not, however, negate the need for Maine to continue to pursue additional — and diverse — sources of energy while also incentivizing conservation …The unexpected drops show how difficult it is to predict the future of energy markets, which are affected by weather, international politics, production, natural disasters and other unforeseen events."

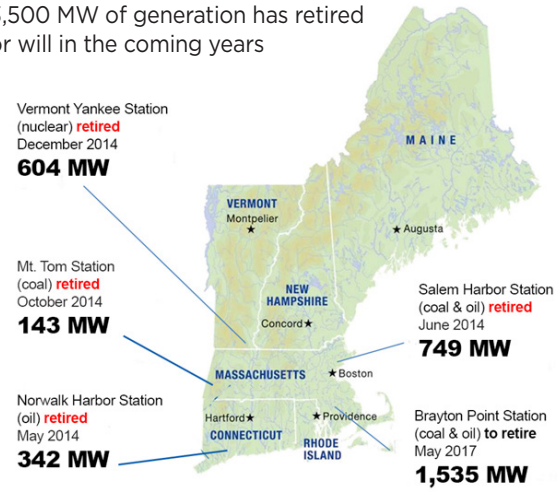
—Winter Energy Crisis Averted, but Long-Term Strategy Still Needed, *Bangor Daily News* editorial, 21 January 2015

"While the region's leading utilities hike their winter rates, and while older, coal-fired power plants continue to retire, we are at an especially pivotal moment in New England's energy story…."

—Charlie Baker Should Focus on Wind, *Boston Globe* op-ed, 22 January 2015

REGION IS LOSING NON-GAS RESOURCES

3,500 MW of generation has retired or will in the coming years



Source: Van Welie, Gordon. "State of the Grid: Managing a System in Transition." ISO On Background. Massachusetts, Holyoke. 21 Jan. 2015. ISO-NE.

THE NORTHERN PASS PROJECT UPDATE

5 FACTS ABOUT CANADIAN HYDROELECTRICITY

For decades, New England has been powering its homes and businesses with hydroelectricity generated in Canada. Northern Pass is a transmission line project that will bring clean energy from Hydro-Québec's power plants into New Hampshire and the rest of New England. This is a clean source of affordable, renewable power that can help the region lessen its dependence on fossil fuels and lower energy costs. Here are some facts about hydroelectricity and Hydro-Québec's power plants in Canada.

1. **A hydroelectric power plant generates electricity by harnessing the energy of the water as it flows down the river.** Hydro-Québec converts this energy into electricity by directing water through hydraulic turbines within a dam. These turbines are connected to a generator, which converts the energy into electricity. The water exits the turbine and flows back into the river below the dam.

2. **While most of the electricity generated by Hydro-Québec serves the Canadian province of Québec, some is sold into the New York and New England power grids.** Some of that energy is sold on the open market, while other portions are sold to specific utility companies at an agreed price through what is called a power purchase agreement. Such agreements on Canadian hydropower are credited with keeping electricity rates in Vermont stable. Eversource, formerly known as PSNH, is currently working with Hydro-Québec on a power purchase agreement that would bring New Hampshire additional pricing benefits.

3. **Hydro-Québec has been an important contributor to New England's electric grid for many years.** In fact, New Hampshire has been home to transmission lines that carry Canadian hydropower for more than 50 years. In the month of January, New Hampshire transmission lines carried, on average, more than 1,600 megawatts of electricity into the regional grid each day.

4. **Canadian hydropower is among the most affordable sources of electricity available today.** Adding more hydropower to New England's grid will off-set more expensive fuels, helping to stabilize costs throughout the region. It is estimated that once built, Northern Pass will lower New Hampshire wholesale energy costs by $20-$35 million.

5. **Canadian hydropower is also one of the cleanest sources of electricity available today, creating little air pollution or carbon dioxide.** Hydropower emits 42 times less carbon dioxide than a natural gas-fired power plant, and 100 times less than a coal-fired plant.

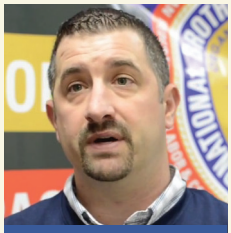
NORTHERN PASS JOBS AND SUPPLIER LISTS KEEP YOU CONNECTED

The Northern Pass project will help create 1,200 jobs during construction. These jobs will include linemen, loggers, equipment operators, truck drivers and safety crews, just to name a few. Once Northern Pass receives all necessary approvals, the project will also contract with local businesses to purchase some of the project's equipment and supplies. Northern Pass has committed to using local workers to build the project, and has forged an agreement to hire New Hampshire workers first.

If you are interested in learning more about the job opportunities available, you can sign up for our jobs notification list by calling **1-855-NPT-JOBS** or emailing **nptjobs@northernpass.us**. Businesses and suppliers can fill out our supplier registration form to receive additional information about the project and to be considered by procurement professionals for contracted services. The form can be found at **northernpass.us/supplier-registration**.

PUTTING NH APPRENTICES TO WORK

We spoke with members of the International Brotherhood of Electrical Workers Local 104 about the job opportunities that projects like Northern Pass bring to their members, most of whom live in New Hampshire but often have to travel out-of-state where work is available. Jason Lauze, who runs the apprenticeship program for IBEW Local 104, told us that it's difficult telling the apprentices he trains that they may have to travel for work.



Jason Lauze
Farmington, NH

"To have the opportunity to come back to the state and to work in the state would be great," Lauze said. You can hear more of what Lauze told us on our website at **northernpass.us/multimedia**.

ABOUT NORTHERN PASS

The Northern Pass is a 187-mile transmission line project that will bring New Hampshire and the rest of New England clean, renewable hydroelectricity. This reliable and affordable source of clean power will also lower energy costs, increase tax revenue in communities along the route and create many jobs during construction. To learn more, go to **www.northernpass.us**. You can also email questions to **info@northernpass.us** or call **1-800-286-7305**.

CLEAN HYDROELECTRIC ENERGY | LOW COST RENEWABLE ENERGY | PRO-NH GOOD FOR THE ECONOMY