



Brookfield

Joint Testimony Eric Thumma of Iberdrola Renewables, Jacob Steubing of EDP Renewables and Jeff Bishop of Brookfield Renewable Energy Partners on Massachusetts Clean Energy Legislation

The three companies listed below are testifying in favor of the Class I renewables firming by existing hydro provisions in HD3217 and S1757.

Iberdrola Renewables, LLC ("Iberdrola") is at the forefront of transforming the way the U.S. produces and uses energy. Strongly positioned to develop, build, and operate the clean energy infrastructure of the future, Iberdrola is currently generating power from almost 60 renewable energy projects for its utility-scale customers in the U.S. Iberdrola is the second-largest wind operator in the U.S. and also operates more than 621 MW of gas-fired generation and more than 129 BCF of owned and contracted U.S. natural gas storage. It is one of the few companies capable of providing structured energy solutions that allow large industrial and commercial customers to manage risks and uncertainty in the natural gas and power industries.

EDP Renewables North America ("EDPR"), based in Houston, TX, entered the U.S. market in 2007 with the acquisition of Horizon Wind Energy LLC from Goldman Sachs. Since then, the company has more than doubled its windpower production, making it one of the world's largest producers. The U.S. is EDPR's biggest market with installed capacity of 4,170 MW and an additional 300 MW under construction. In New England, EDPR NA has a contract with utilities in Connecticut for the output of the proposed Number Nine Wind Farm in Aroostook, Maine, a 250 MW project now deep in the permitting and development process. EDPR has maintained a constant presence in New York State since its Madison wind farm became operational in 2000. It is now the largest owner and operator of wind projects in that State by installed capacity, having developed 391 MW representing approximately a \$1 billion capital investment. In 2014, EDPR executed contracts with a state agency for two additional wind projects, Jericho Rise and Arkwright Summit, totaling approximately 160 MW, which will be proceeding to construction in 2016-2017.

Brookfield Renewable Energy Partners ("Brookfield Renewable") operates one of the largest publicly-traded, pure-play renewable power platforms globally. Its portfolio is primarily hydroelectric and totals over 7,400 megawatts of installed capacity. Diversified across 75 river systems and 14 power markets in the North America, Latin America, and Europe, the portfolio's output is sold predominantly under long-term contracts and generates enough electricity from renewable resources to power more than three million homes on average each year. Brookfield Renewable has a significant presence in Massachusetts including a 600 MW hydroelectric pumped storage facility (Bear Swamp) and a 10 MW hydroelectric facility (Fife Brook). Massachusetts is also home to Brookfield Renewable's National System Control Center for its US assets, located in Marlborough, and its United States headquarters, in Boston. Brookfield Renewable employs in total nearly 150 people in Massachusetts.

Massachusetts has long been a leader among the New England states and across the country on reducing greenhouse gas emissions. As the legislature is looking to solve New England's energy, capacity and fuel diversity problem in a cost-effective manner, we would like to offer one potential solution that provides incremental capacity, clean electricity, and Class I and Class II renewables – while continuing to reduce the amount of emissions across the New England supply stack. Additionally, this project is winter-peaking: providing a new source of reliable power when New England needs it the most.



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Our joint testimony today is in support of the pieces of the legislation in both the hydro bill (HD3217) and in the comprehensive clean energy bill (S1757) that would allow for a joint project to compete in any future clean energy solicitations. Each of the companies -- have other interests in the region, and are developing or operating projects across New England and are looking for other commercial opportunities in addition to this joint project.

Our project would combine up to 600 MWs of new Class I renewables through four or five new wind farms in either New York or northern New England with existing hydro resources -- much of which is certified by the Low Impact Hydro Institute, and to transmit this power over a new transmission line directly into region. The proposal would smooth the intermittent nature of wind resources to a clean firm delivered product into New England, and would optimize -- through a higher capacity usage factor - new transmission infrastructure while providing incremental reliability and resource diversification. This project would, given the resources being brought together, provide particular value in meeting the related challenges of winter reliability and addressing concerns about limits on natural gas infrastructure and related issues.

This is a project that is being led by leading companies in the region: with the new wind farms being developed, constructed and operated by Iberdrola and EDPR, the hydro power sourced from Brookfield Renewable, and for the transmission line to be owned and operated by reputable transmission developers.

As the Commonwealth continues to develop ways to comply with the Global Warming Solutions Act, it is imperative that the maximum amount of competition is allowed to drive down prices for ratepayers as well as bringing direct reliability benefits to Massachusetts, as well as New England more broadly. As such, our companies would be supportive of any legislation that is passed that would allow for our project to compete and to provide the most value to Massachusetts ratepayers.

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