



Storage and/or Green Hydrogen: Holy Grails in Fully Decarbonizing the Northeast?

Co-Keynotes: Québec Minister of Energy & Natural Resources Jonatan Julien
and NYSERDA President & CEO Doreen Harris

Panel I: Strategy/Policy Priorities
Panel II: Sectoral Technology/Project Case Studies

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Bios of Speakers/Moderator



Minister Jonatan Julien was elected to the National Assembly of Québec in the provincial election of 2018, representing the riding of Charlesbourg. He currently serves as Québec's Minister of Energy and Natural Resources and as Minister responsible for the Côte-Nord region and the Gaspésie-Îles-de-la-Madeleine region.

Prior to taking office as a Provincial Minister, Jonatan represented the Québec City district of Rivières as a municipal councilor for five years. He also served as Vice-President of the Québec City Executive Committee and President of the Centre for Expertise and Research on Urban Infrastructures (CERIU). Previously, Jonatan worked in internal auditing, risk management and governance for many large organizations, both private and public, including SSQ Groupe Financier, Desjardins, Office of the Auditor General of Québec and Ernst & Young.

An accountant by profession, Jonatan holds a BA in business administration from Laval University and a master's in public administration from the school of public administration (ENAP) in Québec.



Doreen Harris is the president and CEO of the New York State Energy Research and Development Authority, a public benefit corporation that advances innovative energy solutions to improve New York State's economy and environment.

For over twenty years, Doreen has held public and private sector leadership roles advancing clean energy projects and engineering companies. For the past ten years she has held executive, technical, and policy positions at NYSERDA. Most recently, as Vice President of Large-Scale Renewables, she oversaw the State's nation-leading advancement of renewable resources under the Climate Leadership and Community Protection Act, including the development of offshore wind. Before embarking on a career in public service, Doreen spent more than a decade in the energy sector, serving in management and engineering roles.

Doreen earned a BS in Chemical Engineering from the University of Rochester and a Master of Business Administration from the University at Albany. She serves on the board of several nonprofits, including the National Offshore Wind Research & Development Consortium, Advanced Energy Research and Technology Center, and the Clean Energy States Alliance.



Dominique Deschênes is the Assistant Deputy Minister for Energy Transition and Innovation at the Québec Ministry of Energy and Natural Resources, where she has served in a variety of roles for the past ten years.

Prior to entering public service, Dominique worked at EXFO, first as an engineer, then as a manager. Dominique has more than twenty years of experience in the field of engineering and management in both the private and public sectors. Dominique holds a BS in Electrical Engineering and a certification in corporate

governance from Université Laval.



Paul Hibbard is a principal at Analysis Group. An expert on economics, strategy, regulation, and policy in the electric and natural gas industries, he has a comprehensive background merging business development, technical analysis, resource planning and development, modeling, economics, and public policy in the energy and environmental fields. He has also provided technical and strategic advice to government, industry, business, public interest groups, and trade organizations.

Prior to joining Analysis Group, Paul was Chairman of the Massachusetts DPU. During his tenure, he carried out a forward-looking ratemaking and policy agenda to advance energy efficiency and renewable resources, coordinate regional efforts in the development of energy resources and associated infrastructure, and promote the administration of fair and efficient transmission pricing models in regional and national contexts.

Paul has served as a member of many energy-related boards and committees. He holds an M.S., in energy and resources from UC Berkeley and a B.S. in physics from UMass Amherst.



Judith Judson is Head of US Strategy for National Grid. She brings a wealth of experience in public policy, regulatory, project development, and business strategy. Prior to her current role, Judith served in top government positions in Massachusetts, as Commissioner of the Massachusetts Department of Energy Resources and as Chair of the Massachusetts Department of Public. Judith oversaw the Massachusetts Energy Storage Initiative, which implemented policies to significantly grow the development of energy storage in the state.

In addition to her extensive government experience, Judith spent several years in leadership roles in the energy storage industry where she developed multiple utility-scale storage projects and led the advocacy for new rules to compensate storage in the wholesale electricity markets. She has received honors from her industry peers having been awarded the Phil Symons Energy Storage Award by the Energy Storage Association and the Energy Storage North America Policy Champion Award for her work to advance the energy storage industry.

Judith holds an M.B.A. from Harvard Business School and a BS in Mechanical Engineering from Kettering University.



Audrey Zibelman is Vice President at Tapestry, leading (Google) X's moonshot for the electric grid. Her team is developing new computational tools to enable the rapid and cost effective decarbonization of the electrical grid.

She joined X from the Australian Energy Market Operator, where she was the Managing Director and CEO. AEMO plans and operates the electricity and gas systems and markets for Australia. Prior to AEMO, Audrey was the Chair of the New York Public Service Commission, where she was a member of the Governor's cabinet and oversaw the electric, gas, water, steam, and communication utilities in New York. While in New York, Audrey oversaw massive regulatory reform of the electric industry to support a decarbonized grid, known as Reforming the Energy Vision, or REV. She has also held executive roles at PJM and Xcel Energy and was the founder and CEO of Viridity Energy. Earlier in her career she served as General Counsel to the New Hampshire Public Utilities Commission.

She holds a BA from Penn State, a JD from Hamline University, and an MBA from the University of Minnesota.



Mateo Jaramillo is co-founder and CEO of Form Energy. He was formerly Vice President of Products and Programs for Tesla's stationary energy storage program, an effort he started. In that role, he was responsible for Tesla Energy's product line and business model definition, as well as global policy and business development. Mateo joined Tesla in 2009 as the Director of Powertrain Business Development, serving as commercial lead on over \$100M in new development and \$500M in production contracts signed for electric powertrain sales.

Prior to working at Tesla, Mateo was Chief Operating Officer and part of the founding team at Gaia Power Technologies, a pioneering distributed energy storage firm.

Mateo earned his A.B. in Economics from Harvard and a master's in theology from Yale Divinity School.



Doug Moore is General Manager of Fuel Cell Solutions at Toyota North America. Over his ten years at Toyota, he has served in a variety of leadership and engineering roles focused on the future of mobility and helping to realize Toyota's goal of mobility for all.

In his previous role as Director of Technology and Human Support, he worked to apply new advanced technological solutions and robotics to assist people with limited mobility. Prior to that, he served as Manager of the Partner Robot Division, and as Program Manager for Mobility and Awareness. Before arriving at Toyota, Doug worked as a lead design engineer at the Intellis Corporation. He began his career as an engineer at the Neurosciences Institute in San Diego, working on brain-based artificial intelligence in real-world settings using robots.

Doug holds a BS from UC San Diego and an MS from UC Irvine, both in Mechanical Engineering.



Bill DiCroce is President and CEO of Vicinity Energy, where he leads the largest district energy portfolio in North America. Vicinity offers energy supply, infrastructure investment and management services to municipal, commercial, and institutional customers with mission-critical energy needs. Bill previously served in various leadership roles for Veolia over the last 12 years.

Prior to joining Veolia, Bill served as President and COO of NSTAR Electric and Gas Company's unregulated subsidiaries, which owned and operated private utilities (Medical Area Total Energy Plant, Inc.- MATEP), as well as other district energy and telecommunication businesses in the greater Boston area. He began his career with General Electric at the Knolls Atomic Power Laboratory, where he was certified as a nuclear power engineer within the U.S. Naval Nuclear Propulsion program. He next entered the commercial nuclear power generation industry and held a succession of operational, managerial, and executive positions within Boston Edison and the Entergy Corporation.

Bill holds a BS in marine engineering from the Massachusetts Maritime Academy and an M.B.A. from Boston University. He serves as a board member for several professional organizations, including the City of Boston's Green Ribbon Commission and the Association of Energy Engineers (AEE).



Dr. Jonathan Raab has served as the convener and moderator of the New England Electricity Restructuring Roundtable since 1995, and of the Energy Policy Roundtable in the PJM Footprint from 2016 to 2020.

A national leader in applying consensus building processes to energy, environmental, and regulatory issues, some of his major cases include the Regional Greenhouse Gas Initiative (RGGI); the New England Demand Response Initiative (NEDRI); the Greenhouse Gas planning processes for the City of Boston, Maine, and Rhode Island; RPS rules for Massachusetts and Rhode Island; the energy plan for Tennessee; energy efficiency stakeholder processes in California, New Hampshire, and Massachusetts; market rules for Alberta; and Grid Modernization in Massachusetts, New Hampshire, and Rhode Island. He has also run stakeholder processes for U.S. DOE, U.S. Fish & Wildlife, and U.S. EPA. Jonathan assisted both PJM and MISO in reforming their respective stakeholder processes. He is currently the liaison between the PJM Members and PJM Board regarding complaints related to the Independent Market Monitor. Prior to establishing Raab Associates, Jonathan was the Assistant Director of the Electric Power Division at the Massachusetts DPU.

He holds a Ph.D. from MIT, and an M.S. and A.B. from Stanford. He has taught courses at the University of Oregon, Stanford, UMass (Boston) and MIT, and is the author of *Using Consensus Building to Improve Utility Regulation*.



Carol Holahan is a counsel in Foley Hoag's Energy & Cleantech practice. She advises large, competitive regional generators and other participants in the wholesale and retail competitive electricity markets on regional policy initiatives, changing environmental regulations, decommissioning and sale of plants, and matters pending before the FERC. In addition to concentrating on traditional fossil fuel generation, Carol's practice includes renewable energy resources such as large solar storage and biomass. She has significant experience in the NEPOOL stakeholder process, and with legal challenges to new or existing laws and regulations, environmental permitting, facility siting and assessment or limitations of liability due to the sale or retirement of generating facilities.

Prior to joining to Foley Hoag, Carol was the Senior Director of Government Affairs at Dynegy Inc., the largest generator in New England and one of the largest power producers in the country prior to its 2018 merger with Vistra Energy. Before that, she served as Director of Government Affairs for the New England Power Generators Association, representing competitive power producers before state policy makers, regulators, and infrastructure siting boards. Carol also served as the Director of the Office of Legislative Services in New Hampshire, the non-partisan bill drafting and research office of the state's 424-member legislature. She earned her JD, magna cum laude, from Suffolk Law School and her BS from Georgetown.