



Energy Systems *of Our* Future



2021 NH Local Energy
Solutions Conference

Your Guide to:

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WELCOME

to the 2021 LES Conference

Recently I read about the invention of the railroads. They first emerged when the hunger for firewood stripped the British countryside of trees, and so the country turned to coal mining for heat. At first the coal was hauled by horses and the heavy carts rutted the roads, so mine operators put down boards under the wheels. Wood wore out quickly so it was replaced with cast iron rails. Wars made horses and feed scarce so engineers replaced them with steam engines.

When trains became fast enough and powerful enough to begin hauling people, and humans first experienced the sensation of riding placidly as passengers at 30 miles per hour they were amazed to be moving so quickly that their vision blurred and they couldn't make out the scenery as it went by. **It took some practice for us to learn to pan our heads to make out what was passing by, as the world accelerated.**

That's how I feel today. And not just because my life has recently changed dramatically by coming to Clean Energy NH, but **because the transformation of the entire energy system—globally—is beginning to accelerate.** Sometimes we get so distracted by the chaos of the trees rushing by, that the important landmarks blur right past. We have to remember to lift our eyes to the horizon to see where the train is headed.

Where we are headed is a fully decarbonized economy, but there's a lot of unknown countryside between here and there. Exploring that uncertain landscape is what we have gathered for today, and to that end we're thrilled to present 12 topics from 4 tracks: **Community Leadership, Infrastructure and Transportation, Pathways to Efficient and Affordable Housing, and Policy.** Additionally, please head outside to check out the ReVision Energy Tiny Education Center, and the EV Ride & Drive expo.

But first, we'll gather for a **plenary keynote with Elizabeth Wilson, the inaugural Director of the Arthur L. Irving Institute for Energy and Society at Dartmouth,** who will discuss how it comes to be that ideas we deemed impossible 20 years ago are now common practice, and why we still struggle to implement ideas that seem so common sense.

So sit back in your chair and look to the horizon as we take stock of where we are and the obstacles that remain as we steam towards our destination. We hope that you finish today feeling energized and empowered to do your piece to speed our transformation to a clean energy economy.

Sincerely,
Sam Evans-Brown
Executive Director, Clean Energy NH

AGENDA

2021 NH Local Energy Solutions Conference

8:00 - 8:30am	Registration, Continental Breakfast & Informal Networking	
8:30 - 8:45am	Morning Welcome	
8:45 - 10:00am	Morning Key Note Address: <i>Elizabeth Wilson</i> , Director, Arthur L. Irving Institute for Energy and Society	
10:00 - 10:30am	<i>Networking Break: Visit Our Exhibitors</i>	
10:30 - 11:45am <i>First series of sessions</i>	Community Power Panel	Paving the Way for Transportation Electrification
	Pathways to Efficient and Affordable Housing	Legislative & Regulatory Roundup
11:45 - 1:15pm	<i>Lunch, EV Ride and Drive and ReVision Energy Tiny Education Center</i>	
1:15 - 2:30pm <i>Second series of sessions</i>	Local Clean Energy Success Stories	Grid of the Future
	Serving Low and Moderate Income Granite Staters	The Federal Infrastructure Plan
2:30-3:00pm	<i>Networking Break & Afternoon Refreshments: Visit Our Exhibitors</i>	
3:00- 4:15pm <i>Third series of sessions</i>	Local Energy Action!	Energy Storage Developments in the Granite State
	Next Generation Efficiency Regulation Design	Data Informed Energy Policy
4:15-4:45pm	<i>Networking & Visit Our Exhibitors</i>	
4:45pm	<i>Conference Adjourns: Thank you for joining us!</i>	



KEYNOTE SPEAKER

Welcome Elizabeth Wilson

Professor of Environmental Studies &
inaugural Director of the Arthur L. Irving
Institute for Energy and Society at Dartmouth



Dr. Elizabeth J. Wilson is a Professor of Environmental Studies and the inaugural Director of the Arthur L. Irving Institute for Energy and Society. She studies how energy systems are changing in the face of new technologies and new societal pressures. Her work focuses on the implementation of energy and environmental policies and laws in practice. She studies how institutions support and thwart energy system transitions and focuses on the interplays between technology innovation, policy creation, and institutional decision making. Recent research has examined how energy policy stakeholders view the opportunities and challenges of creating smart grids and decision making within Regional Transmission Organizations, which manage the transmission planning, electricity markets and grid operations of over 70 percent of North America. Her research has also examined how stakeholders in different U.S. states view emerging energy technologies like wind power and carbon-capture and sequestration and the electric power transmission system. Her recent books include *Energy Law and Policy* and *Smart Grid (R)evolution: Electric Power Struggles*. Wilson's research group is working on two NSF supported grants on media and stakeholder perceptions of Smart Grid technologies and on decision making in Regional Transmission Organizations.

Track 1: Community Leadership

Community Power Panel 10:30 - 11:45am

Community Power was the hot topic of 2020 and 2021, but what does that mean for New Hampshire, and who is facilitating it? Hear from the top 3 Community Power Providers in the state in a Community Power Panel! Including a chance to ask questions live.

Location: Ballroom

Moderator: Amanda Gokee

Speakers: Henry Herndon (Community Power Coalition of New Hampshire), Bart Fromuth (Freedom Energy Logistics), Bob Hayden (Standard Power)

Local Clean Energy Success Stories 1:15 - 2:30pm

Communities around NH are investing in a clean energy future, from solar arrays to efficient housing projects, learn about how NH is moving towards a more efficient, cost effective future.

Location: Concord Room

Moderators: Melissa Elander (Clean Energy NH) & Sarah Brock (Vital Communities)

Speakers: David Van Houten (Chair of the Bethlehem Energy Commission), Ray Danforth (Shelburne Energy and Technology Committee), Andrea Hodson (Harrisville Energy Aggregation Committee), Jim Norse (Sustainable Lyme), Emily Manns (Peterborough Energy Committee)

Local Energy Action! 3:00 - 4:15pm

This session will provide a roadmap for municipalities to succeed in local energy efforts. Presentations will be given by representatives from the Monadnock Sustainability Hub, Vital Communities and Clean Energy NH.

Location: Concord Room

Speakers: Annie Henry (Monadnock Sustainability Hub), Sarah Brock (Vital Communities), Josh Singer (Clean Energy NH), Melissa Elander (Clean Energy NH), Dan Weeks (ReVision Energy)



LOCAL ENERGY SOLUTIONS
Conference

Track 2: Infrastructure & Transportation

Clean Transportation Infrastructure Investments: Paving the Way for Transportation Electrification 10:30 - 11:45am

Transportation emissions continue to be the largest source of greenhouse gases. Electrification is the available and affordable technology to significantly reduce emissions from this sector. Municipalities can help pave the way by electrifying their own fleets and establishing practices and policies that will encourage local charging infrastructure and enable the use of EVs in your communities by both residents and businesses. Hosted by the Granite State Clean Cities Coalition, this session will highlight concrete steps municipalities can take to lead the charge, and end with an EV Showcase and Ride-and-Drive event in the parking lot.

Location: *Pierce*

Moderators: Jessica Wilcox (Granite State Clean Cities Coalition)

Speakers: Barry Woods (ReVision Energy), Bruce Clendenning (The Nature Conservancy), Jessica Wilcox (Granite State Clean Cities Coalition), Brian Morris (Eversource), Jackson Kaspari (Dover), Timothy White (NHDES)

Grid of the Future 1:15 - 2:30pm

The US electrical grid has been described as the world's largest machine, one which historically generated, transmitted, and distributed power to meet immediate need for lighting, pumps, motors, and other equipment, with limited capacity to store energy. How can we smoothly transform this 100+ year-old infrastructure in the timeframe necessary to address climate change while equitably meeting the needs of residents, business, and manufacturers? Topics will include interconnection of clean renewable energy, storage integration, and providing energy for electrified building and transportation sectors.

Location: *Ballroom*

Moderator: Matt Siska (GDS Associates)

Speakers: Dr. Elizabeth Mettetal (Energy and Environmental Economics, Inc. (E3), Brian Callnan (NH Electric Cooperative)

BYOS and More - Storage Developments in the Granite State

3:00 - 4:15pm

Energy storage adoption is growing steadily around the country, but what is New Hampshire doing to support the adoption of storage to create a more modern, resilient grid? This session features updates on the behind the meter storage programs, utility scale storage, and demand response programs actively serving the region's electric grid. Join to learn where New Hampshire stands and where we may be going with energy storage and demand response.

Location: *Ballroom*

Moderator: Kelly Buchanan (Clean Energy NH)

Speakers: Heather Tebbets (Liberty), Brian Callnan (NH Electric Coop), Alex Tang (TRC), Rachel Goldwasser (Key Capture Energy)



Track 3: Pathways to Efficient and Affordable Housing

The Role of High Performance Homes in NH's Clean Energy Future

10:30 - 11:45am

Buildings need to be a major area of focus for a successful energy transition. As the housing boom in New Hampshire continues, it's critical that all new homes are designed and constructed in a manner that is consistent with NH's long term energy, carbon, and resiliency goals. This session will talk through the design principles and strategies, as well as the key technologies that can be utilized in order to develop high performance, resilient homes that are well equipped for a fossil fuel free future. We'll also discuss non-energy benefits and cover case studies from real-world projects. Attendees will leave with a series of key principles that can be implemented at the policy level or in practice.

Location: Webster

Moderators: Jamie Bemis (Verdani Partners)

Speakers: Andrew Dey (Unity Homes) , Bryan Felice (Undustrial Timber Frames), Laura Samoisette (Resilient Buildings Group), Jake Gehrung (LEED For Homes AP) Jamie Bemis (Verdani Partners)

NH Saves: Serving Low and Moderate Income Granite Staters 1:15 -

2:30pm

Reducing the energy bills of low to moderate income Granite Staters is not always straightforward. Landlords and property owners don't always pay heating and electricity bills of their tenants, and don't necessarily have the incentive to engage with NH Saves. How do we bridge that gap, and how can ensure that our efficiency programs reach more NH residents of modest means.

Location: Webster

Moderator: Sam Evans Brown (Clean Energy NH)

Speakers: Frank Melanson (Eversource), Chris Vought (Belknap/Merrimack Community Action Program), Dana Nute (Resilient Buildings Group)

Next Generation Efficiency Regulation Design

3:00 - 4:15pm

How much energy will a given energy efficiency upgrade save? It's a question that's surprisingly difficult to answer. However, program designs can incorporate innovative features to try to give us more data to inform better policy. Hear from a program administrator, a regulator and an academic how to incorporate actual randomized, controlled experiments to reveal how much bang we're truly getting for our bucks.

Location: Webster

Moderator: Sam Evans Brown (Clean Energy NH)

Speakers: Chris Knittel (MIT), Tracey Dyke-Redmond (Eversource), Brian Buckley (NH Dept. of Energy)



Track 4: Policy

Legislative & Regulatory Roundup 10:30 - 11:45am

2021 flashed by in a blur. Are you curious about what happened at the New Hampshire State House and Public Utilities Commission this year? This session will help you catch up on all things energy policy, including the expansion of net metering for municipal projects, the creation of a Department of Energy in NH, the statewide energy efficiency plan, and what to expect in 2022.

Location: Merrimack

Moderators: Sam Evans Brown (Clean Energy NH)

Speakers: Jim Monahan (The Dupont Group), Heidi Kroll (Gallagher, Callahan, Gartrell), Huck Montgomery (Liberty Utilities), Madeleine Mineau (Essex Hydro)

The Federal Infrastructure Plan 1:15 - 2:30pm

The entire energy policy world is holding its breath to see what comes out of Washington D.C. this fall. A panel of congressional staffers will bring us the latest of what we might expect from the Biden administration's big push on the clean energy transition

Location: Merrimack

Moderator: Eli Emerson (Primmer)

Speakers: Charlotte Harris (Staff for Rep. Kuster), Kerry Holmes (Staff for Sen. Hassan)

Data Informed Energy Policy 3:00 - 4:15pm

In today's technology and data driven world, most Granite Staters still have difficulty accessing their energy use data. The settlement achieved in NH Public Utilities Commission docket DE 19-197 established a sound foundation for the creation of a statewide, multi-use online energy data platform. Join this session and learn about how readily accessible energy data can help individuals, businesses, and communities unlock innovation, energy efficiency, and new clean energy technologies.

Location: Merrimack

Moderator: Henry Herndon (Community Power Coalition of New Hampshire)

Speakers: Don Kreis (Office of the Consumer Advocate), Ethan Goldman (Resilient Edge Inc.), Rep. Kat McGhee (House Science, Technology and Energy), Justin Eisfeller (Unitil)

Thanks to our

Sponsors!



Welcome to our

Exhibitors!



EV Experience & Ride & Drive Event:

Electric Vehicles (EVs) will be a major element of the solution for communities with 100% clean energy goals. Granite State Clean Cities Coalition is hosting an EV Showcase and Ride-and-Drive event during the LES Conference.

Join us in the parking lot during the lunch hour for a hand's-on experience!

Featuring -

- Ford Mustang Mach-E
- Mitsubishi EV
- Volvo EV
- Zero FXE e-motorcycle
- Chevy Bolt
- Tesla Model 3
- Ford C-Max
- Toyota Prius Prime

Clean Energy NH and Local Energy Solutions

Clean Energy NH coordinates the Local Energy Solutions (LES) Workgroup. The Workgroup features a diverse group of energy professionals representing the public, private, and non-profit sectors with a wide-range of expertise from energy policy and project financing to project management and community organizing.

The LES Workgroup has been providing support for local communities since 2011 and has been an initiative of Clean Energy NH since 2017. CENH plans and hosts the annual Local Energy Solutions Conference in conjunction with the LES Workgroup, but this is just one piece of the important work we do.

Members of Clean Energy NH gain access to our resources and expertise such as,

- Members only webinars with experts in the energy field
- Members only newsletters keep you up-to-date on energy policy, regulatory changes, industry trends, and member news
- Technical assistance for your municipal, business, or personal clean energy goals
- Access to resources developed specifically for NH energy decision makers such as:
 - The Model Solar Zoning Ordinance
 - A Municipal Solar RFP Template
 - A Strategic Energy Action Toolkit

But beyond these benefits, members support Clean Energy NH's mission to advocate for a clean energy future for New Hampshire using a fact-based approach that offers objective, balanced, and practical insights. We educate audiences on all matters pertaining to generating, storing, and efficiently using clean energy to accelerate our transition to a healthier, cheaper, and more reliable energy future.

Visit cleanenergynh.org/membership to become a member right now, or feel free to speak to one of our staff if you have any questions!



CLEAN ENERGY NH

Your Voice in All Energy Matters

