



Environmental & Energy Technology
Council of Maine

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E2Tech's History

The Environmental & Energy Technology Council of Maine (E2Tech) began in 2002 after the merging of the Environmental Business Council of Maine (EBCM) and the Maine Environment and Energy Center (E2 Center). The organization was co-founded by Jeff Thayer, John Ferland, and Jim Atwell as a small, volunteer-driven organization representing Maine's 200 environmental and energy technology companies, nonprofits, educational institutions, governmental agencies, and sector support companies. Since then, it has grown to one representing a strong and diverse network dedicated to boosting the environmental, energy, and clean technology sector in Maine.



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Russ Abell, PG, LSP

Sanborn Head

Russ has been a member of E2Tech's Membership and Marketing Committee before being elected to the Board.

He has more than 20 years of experience in hydrogeology, contaminant fate and transport, remediation, environmental compliance, and due diligence work.

Russ is a graduate of Amherst College and earned a master's degree in geoscience from Virginia Polytechnic Institute. In line with his specialization in legal matters, Russ serves on the Marketing Committee of E2 Tech, is an active member of the Licensed Site Professional Association, the American Bar Association Section of Energy and Environment, and the Environmental Law Institute.



Brooke Barnes - Co-Chair, Program Committee

Stantec

Brooke is a recognized environmental expert with more than 25 years of experience in the regulatory and permitting field. In a number of leadership positions, he has helped build a vibrant Maine Department of Environmental Protection; train future public leaders at the Maine Management Institute; and serve as counsel to the Office of Governor Angus King. With pragmatism and careful strategic analysis, he most recently led the environmental and regulatory reviews for the development of six new wind projects in Maine, which offer more than 370 MW of clean renewable energy for New England.

With his background in sociology and law, Brooke has a unique perspective when it comes to navigating the various phases of development projects, from navigating the public process, to negotiating with state and federal agencies, to serving as or preparing expert witnesses for testimony. Understanding the role of the law and regulatory agencies and the role of the public is his imperative.



Ellen Belknap

SMRT Architects and Engineers

Ellen Belknap, AIA is president of SMRT Architects and Engineers, a full-service firm designing health & wellness, science/technology/manufacturing, education, justice, government and corporate office facilities. Ellen is committed to working with clients to anticipate future state, encouraging them to innovate and position their organizations for success. Ellen is known for her collaborative leadership skills and fully engages in a change management mindset throughout the design and construction process. She advocates for a sustainable design approach driving maximum carbon reduction and energy optimization wherever possible. She has led a variety projects across New England, including the largest Integrated Project Delivery (IPD) hospital in the Northeast, MaineGeneral Medical Center, Alford Center for Health.

Ellen is active in the communities she lives and works in; she serves on the University of Maine Board of Visitors, the Board of Maine & Company and the Portland Trails Advisory Board. Ellen earned her Master of Architecture at Columbia University and her undergraduate degree at Cornell University. She lives in Portland's Deering Center and enjoys exploring urban trails near and far.



R. Benjamin Borowski

Preti Flaherty

Robert "Benji" Borowski is a member of the firm's Energy & Telecommunications, Cleantech and Renewable Energy Law, and Climate Strategy groups dedicated to helping clients achieve their legal, policy, and regulatory goals across those sectors. In his practice, he has worked with clients of all sizes and across a wide range of industries on a variety of energy issues. Benji has amassed state- and federal-level experience around the policies that drive regulations, the regulations that constrain markets, and markets within which stakeholders operate. His work has included advising private equity on the acquisition of industrial and electric generation assets, assisting large-scale consumers with financing for efficiency projects, and helping consumer-generator clients navigate the evolving energy markets through regulatory and policy advocacy.

Benji places particular emphasis on efficiency and renewable forms of energy: onshore and offshore wind, large- and small-scale hydro, marine hydrokinetic, biomass, and solar. His work in these fields includes legislative and administrative representation of solar power producers opposing an unfavorable rate design and assisting an innovative off-shore wind project receive regulatory approval. He has also assisted clients in certifying their energy projects as "renewable" under state renewable portfolio standards and advised them on maximizing the value of associated environmental attributes. In addition, Benji has been extensively involved in efforts to reduce energy costs across New England, especially through decreasing long-standing reliance on oil.

Benji is a graduate of Vermont Law School where he earned a J.D. with a Certificate in Energy Law, magna cum laude, and a M.S. of Environmental Law and Policy, magna cum laude. While in law school, he served as an articles editor and production coordinator of the Vermont Law Review. He earned various American Jurisprudence Awards, including in Torts, Environmental Issues in Business Transactions, and Climate Change and the Law.



Vanessa Berry

NRCM

From the classroom to the compost pile, Vanessa joined the ecomaine team in August of 2018 to provide education and resources to member communities and residents as an Environmental Educator. As an ecomaine educator, her role changes every day. From giving tours, to conducting trash audits with students, her main goal is to encourage others to follow the three R's: Reduce, Reuse, then Recycle! Vanessa received her B.S. in Elementary Education at the University of Maine at Farmington in 2015, and found her passion for the environment as a work-study student in UMF's Sustainable Campus Coalition. She has previously served as an Energy Efficiency Coordinator with AmeriCorps, organized a Green Team at Chelsea Elementary School, and worked one-on-one with students as an Ed. Tech in an Autism and Behavior Program.



Thank you to tonight's Platinum Sponsor, BlueWave
Solar!

The logo consists of the word "BLUEWAVE" in white, bold, sans-serif capital letters, centered within a solid blue rectangular background.

BLUEWAVE

John Carroll

Actual Energy

John Carroll is the Director of Business Development in Maine for Actual Energy, a competitive energy company supplying electricity at dynamic, hourly wholesale prices. Previously, he worked 18 years in corporate communications for electric and natural gas utilities in the Avangrid family of companies. Before that, John spent 10 years in corporate communications and charitable foundation work with UNUM.

Among John's civic activities, he served nine years on the Portland Planning Board (2 as chairman); six years on the Casco Bay Island Transit District Board of Directors; six years on PACTS planning committees for regional traffic planning and alternative modes transportation planning; 3 years on the Board of Directors for the KIDS Consortium, and 9 years on the Board of Directors of the Trefethen-Evergreen Improvement Association (on Peaks).

John has his BA from Vassar College and an MBA from Husson University. He is a resident of Peaks Island.



Erik M. Clapp, Ph.D.

Sevee and Maher Engineers, Inc.

Erik leads SME's Remediation group. He is an expert geologist with 28 years of experience in geologic investigations, specializing in hydrogeology, geochemistry, sediment transport, and geotechnical issues. He has supervised and conducted regional and international research projects for the U.S. Department of Defense, the U.S. Geological Survey, and some of the region's largest manufacturing companies. Erik is a member of the E2Tech board of directors with a passion for clean energy topics.

He received bachelor's, master's, and doctorate degrees in Geology from the University of Vermont.

Erik is an avid off-piste skier, mountain biker, brewer, and lover of live music. Erik currently spends much of his free time in a support role to his teenage children.



Phil Coupe

ReVision Energy

Phil Coupe is a managing partner and co-founder of ReVision Energy, a certified B Corp and the largest solar energy company in northern New England with more than 6,000 systems placed in service in ME, NH, and MA since 2003. Prior to leading the startup of ReVision Energy's southern Maine and New Hampshire operations, Coupe was co-founder and director of corporate philanthropy at a startup in Washington, DC that twice made the Inc. 500 list of fastest-growing companies in America. The company received numerous awards for its commitment to serving disadvantaged children and for its environmental initiatives, underscoring Coupe's philosophy that business can be utilized to create maximum positive impact for people and the planet while also delivering strong financial results. In 1999 he became involved with the Big Brother/ Big Sister program and continues to work with his original match. In addition to his long-time service at E2Tech, he is also on the boards of the Conservation Law Foundation and Envision Maine, and is on the steering committee of Maine Audubon's Corporate Partner Program.



David Ertz - Co-Chair, Marketing & Membership Committee

DBE Consulting Services

Through DBE Consulting Services, David provides construction, contract, and project management expertise for the EPC delivery of renewable energy projects. Previously, David was responsible for the engineering and construction activities associated with First Wind's projects in the Eastern U.S. His group of project managers and construction managers provide the resident expertise to advance projects from the early development phases to commercial operation with a focus on managing the work of engineers and contractors to construct utility-scale wind energy projects. He draws on his 30-plus years of experience in project management, environmental controls and management, and permitting for industry and electric utilities.



Thomas R. Eschner, Chair of the Board

TRC

Tom has been involved in energy development, contaminant geology and hydrogeology, and water resources for more than 35 years. He is a senior project manager with expertise managing both large, complex energy-infrastructure projects and multi-media site investigation and remediation projects. As a consultant, he has been involved in the planning and management of FERC and state permit applications, including all associated field surveys, data interpretation, agency coordination, public outreach, and report preparation. He has served as site manager for investigations, feasibility studies, and remedial actions under various federal and state programs.

In addition, Tom served as Managing Director for a European environmental consulting services firm in Wiesbaden, Germany and has provided environmental insurance settlement and litigation support, and implemented and managed the development of environmental management systems. Prior to consulting, Tom worked in private industry and for the federal government. He served as a petroleum exploration geologist in the Gulf Coast region, and as a hydrologist with the U.S. Geological Survey in Colorado, Wyoming, and Nebraska.



William V. Ferdinand, Jr.

Eaton Peabody

Bill is an attorney with Eaton Peabody who focuses his legal practice on environmental and land use law. He also leads the legislative lobbying team for the firm, representing a wide variety of clients in the Maine Legislature, from multi-national corporations to small businesses and individuals.

Prior to joining Eaton Peabody, Bill was on the staff of the State Planning Office where he advised the Maine Legislature and state agencies on environmental and economic development policy. Bill is a graduate of St. Lawrence University and Tulane University Law School. He continued his education by earning a Masters of Environmental Law from Vermont Law School. He is a member of the Bar in the States of Maine and Connecticut.



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TETRA TECH



Carrie Gilbert

Daymark Energy Advisors

Carrie works closely with policymakers, regulators, renewable energy developers, and large C&I customers engaged in renewable energy markets. She is an expert on state and regional renewable energy policy and economics and she provides strategic and technical advice to clients pursuing decarbonization and sustainability goals. Carrie has appeared as an expert before FERC and before state regulatory agencies in Arkansas, Maryland, Georgia, North Carolina, and Rhode Island.



Dale Knapp

Walden Renewables

Dale has over 20 years of professional experience in natural sciences, permitting, and management. He is a regionally recognized natural resource consultant, and carries the following professional certifications: Certified Soil Scientist, Licensed Site Evaluator, Certified Environmental Professional, Certified Professional in Erosion and Sediment Control, and Professional Wetland Scientist. Energy projects have been a focus of Dale's professional practice and he has played a key role in the development and permitting of 17 operational wind projects, over 100 grid scale solar projects, and 15 high voltage transmission lines in New England alone.



Jeff Marks

Acadia Center

Jeff Marks is Senior Policy Advocate & Maine Director at Acadia Center, an organization dedicated to building clean, competitive, environmentally sustainable economies through data-driven research, innovative policies, and market-based solutions. Jeff previously served as Executive Director of E2Tech before volunteering overseas with an extreme animal rescue team.

Jeff was Deputy Director of the Maine Governor's Energy Office where he advised two Governors, Legislature, and State agencies on energy, environmental, and economic policy. Prior to his state service, Jeff was Director, Energy & EHS Policy and managed government relations activities for United Technologies Corporation (UTC), a global Fortune 50 company on the cutting edge of the aerospace, buildings, and energy industries. In Washington, DC, Jeff also represented more than 14,000 small, mid-sized, and large businesses and trade associations at the National Association of Manufacturers and served on action-oriented advisory boards for prominent business and environmental organizations, including Center for Climate and Energy Solutions, International Climate Change Partnership, National Energy Resources Organization, and U.S. Chamber of Commerce.

Jeff has worked on all levels of government – with a city manager, a state senate president, a state attorney general, a former U.S. Senate Majority Leader, and a Federal advisory delegation of elected and appointed leaders from all levels of government. He is one of the founding member of Climate Maine and the Center for Climate and the Economy and is proud to be a Member of the E2Tech Board of Directors.



Chris J. Rauscher

Sunrun, Inc.

Chris is Director of Policy & Storage Market Strategy for Sunrun, the country's largest rooftop solar & storage provider. Chris works on Northeast & Caribbean Affairs, with a focus on storage, virtual power plants, and wholesale markets. Prior to joining Sunrun, Chris was an energy policy advisor in the US Senate where he worked on a diverse issue set, with a particular focus on DERs. Chris has been on various political campaigns and involved in a number of startup businesses. Although he has a law degree, so far he has successfully avoided practicing.

Chris grew up in Bristol, and now lives in Cape Elizabeth. In his free time he surfs, sails, and repairs vintage motorcycles.



Tim Soley

East Brown Cow Management, Inc.

Tim Soley, a 1984 graduate from Wesleyan University, established East Brown Cow Management in 1989 and has owned and operated the business ever since. The company's commercial portfolio includes approximately one million square feet of office, retail, flex space, structured parking and land in the Greater Portland area. Tim has spent time modernizing the infrastructure of his older, historic buildings, making sure that they remain vital elements in their neighborhood while focusing on energy efficiency alternatives. With his newer, non-historic structures, Tim strives to bring these buildings to very high standards and maintain them accordingly.

Tim's company, East Brown Cow, has earned a reputation for providing first-class service to its tenants and for its commitment to the neighborhood where its properties are located. Tim's newest development project is a Hyatt Place Hotel. The hotel stands at 7-stories, 80,000 sq. feet, in the heart of the Old Port.



Michael Stoddard

Efficiency Maine

Michael is the first Executive Director of the Efficiency Maine Trust, a position he started in 2010. The Trust's mission is to help Maine consumers meet their energy needs at the lowest cost through the design and implementation of market-based energy efficiency and alternative energy programs.

Before coming to the Trust, Michael was Senior Counsel at ENE, a non-profit research and advocacy group that specializes in climate and energy policy. He was ENE's lead energy advocate in Maine, where he worked on the legislation regarding Maine's involvement in the Regional Greenhouse Gas Initiative, reforming Maine's building energy codes, and restructuring Maine's administration of energy efficiency programs. Prior to working at ENE, Michael was the Assistant to the Chairman of the Federal Election Commission in Washington and worked for 6 years in international development work at the National Democratic Institute for International Affairs (NDI), traveling across South America and Africa. Michael was appointed to the Maine Energy Conservation Board and also to the Governor's Emergency Energy Task Force. Michael testified before the U.S. Senate Committee on Small Business and Entrepreneurship, on "Solutions to Cope with the Rise in Heating Oil Prices." He also served on the Environmental Technology Advisory Board of the Maine Institute of Technology. Michael holds degrees from Williams College and the University of Maine School of Law. Originally from Brunswick, Michael now resides in Portland.

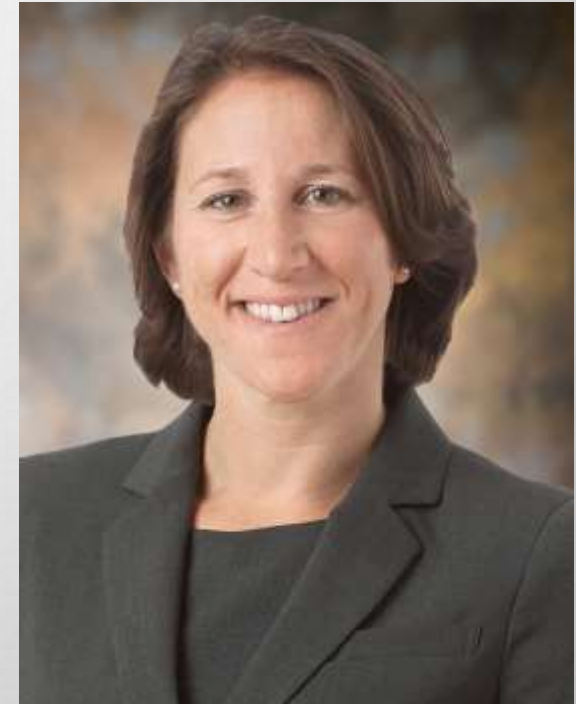


Sarah Tracy - Co-Chair, Program Committee

Pierce Atwood

Sarah advises energy generation facilities and industrial and large commercial energy users with respect to energy and regulatory issues and due diligence matters. Sarah also represents electric, natural gas, and telecommunications utilities before state regulatory entities. Prior to joining Pierce Atwood, Sarah worked as a staff attorney with the Maine Public Utilities Commission in the Legal and the Electricity and Gas Division.

Sarah became Chair of the E2Tech Programming Committee in 2018.



Pips Veazey

UMaine Gateway

Dr. Alice “Pips” Veazey is the inaugural director of the Portland Gateway. She joins UMaine from the University of Alaska Fairbanks, where she was the principal investigator and project director of the Alaska National Science Foundation Established Program to Stimulate Competitive Research (NSF EPSCoR).

Veazey received a bachelor’s degree in psychology from Bates College, and holds a master’s degree in oceanography and Ph.D. in team science leadership, both from the University of Alaska at Fairbanks. Her research focuses on fostering the development of large interdisciplinary initiatives. Over the past decade, she has led numerous teams of students, educators, scientists, decision makers and community partners to increase research competitiveness, promote economic development efforts and expand statewide workforce programs.



Suzanne B Watson

ACEEE / Watson Strategy Group

Suzanne Watson received her BA in political theory from Bowdoin College in Brunswick, Maine. She was awarded a juris doctor and master of intellectual property law from Franklin Pierce Law Center in Concord, New Hampshire. She has worked extensively on the linkages between energy policy, environmental quality, and economic development issues from the early nineties to today. Additionally, Suzanne works in New England, and nationally, on multiple clean energy efforts as Principal for Watson Strategy Group.

Suzanne served for almost ten years as the Policy Program Director for the American Council for an Energy Efficient Economy (ACEEE) starting in 2008, where she worked with staff and external partners to determine how ACEEE's analysis and expertise could best be directed to create the policy opportunities needed for optimal outcomes in the interest of ever greater energy efficiency leading to a stronger national economy.

Prior to joining ACEEE in 2008, she served many different companies and associations holding various titles including Director for the Office of Innovation at the Maine Department of Environmental Protection, Energy and Climate Policy Director for the Northeast States for Coordinated Air Use Management (NESCAUM), Senior Policy Advisor for the Northeast-Midwest House and Senate Coalitions on Capitol Hill, and as Founder and Director of the Maine Environment & Energy Center (E2 Center), which is now E2Tech.



Thank you to tonight's Gold Sponsors!



Sarah Watts

Tetra Tech

Sarah Watts is a Managing Environmental Scientist and Operations Manager for the Portland, Maine office of Tetra Tech. Sarah has worked professionally in Maine as an environmental consultant since 2000, and has been an E2Tech member since 2013. In her current position, Sarah oversees a group of 20 biologists, natural resource scientists, and planners, who primarily support project work in renewable and conventional energy generation and transmission, with the Department of Defense, and with various state agencies and local engineering firms. Sarah has been a member of the E2Tech Marketing and Membership Committee, and is looking forward to continuing and expanding her involvement in shaping the future direction of the organization.





Paul Williamson

Key Capture Energy

Paul was the founder of the Maine Ocean and Wind Industry Initiative, an industry led effort to expand economic development activities in the Northeast through renewable energy. Paul's work continues to focus on helping landowners, communities and businesses realize economic opportunities and development through successful clean energy projects.



E2 Can Do! Award (2012)

“For outstanding leadership in the Business Sector to promote the values and mission of the Environmental and Energy Technology Council of Maine”



E2Tech in the News!

snapshots ...

E2Tech Winter Social | DEC. 4

Ashley Gagnon of Northeast Bank, Marty Grohman of E2Tech and Glenn Baker of Business Finance Group at the event held ReVision Energy in South Portland.

Photos by Clarissa Dwyer



Infinity Federal opening | DEC. 4

Branch manager Katelyn Smith, CEO Elizabeth Lariss, Manager Loretta DiVito, and teller/members the opening of Credit Union a





Brian Conroy of RLC Engineering, Vanessa Berry of Ecomaine, Kevin Conroy of HEP Energy USA and Rebecca Barulli, a student at St. Joseph's College.

MAINE POLICY REVIEW

A Joint Publication of the Margaret Chase Smith Policy Center and the Margaret Chase Smith Library

12/2009



SCENE & HEARD

E2Tech toasts to innovation in eco-friendly technology

Members of the organization gathered for an annual meeting and holiday mixer at Foundation Housing in Portland.

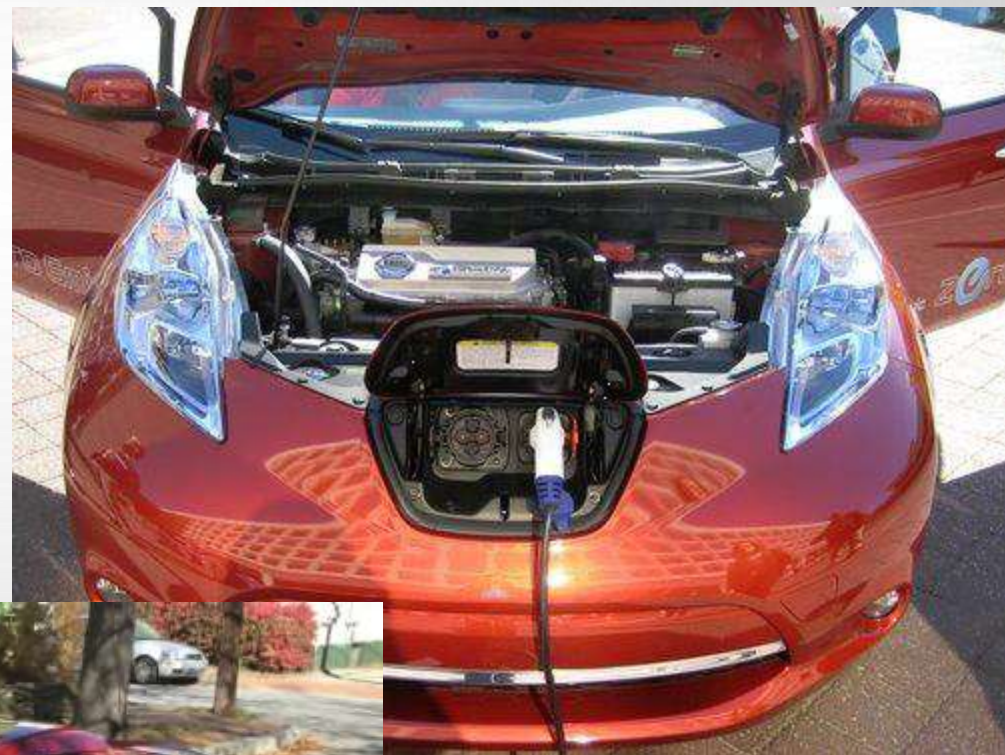
ANY PAROSKE CITY MISTAKE





Lee Auto, ReVision Energy, City of Portland, E2Tech collaboration on promotion of E/V and infrastructure opportunities (2013)





Thank you to tonight's Gold Sponsors!



Unitil
energy for life



WESTERN EARTHWORKS

Thursday, Nov. 18, 2004

Forums

- January** **"Replacing Oil With Maine's Trees:"** Scott Christiansen, economic development director, River Valley Growth Council, Rumford, ME.
- February** **"Natural Resource Economy Issues Important to Maine's Environmental & Energy Technology Companies:"** Martha Freeman, director, Maine State Planning Office
- March** **"International Opportunities for Maine's Environmental and Energy Technology Companies: An Irish Case Study"** with Richard Coyle, president of the Maine International Trade Center; John Merrill, president of Brims Ness Corp. of Millinocket; and Carol White, principal of Carol White & Associates, a geologic and environmental consulting firm located in Yarmouth.
- April:** **"Wind Power Development in Maine:"** Harley Lee of Endless Energy Corporation and Dave Wengrzynek of Evergreen Wind Power, LLC .
- May:** **"Perspectives on Maine's Dynamic Environmental and Energy Technology Sector":** Former Governor Angus King.
- June:** **Maine's Potential as a wave energy site:** Roger Bedard of the Electric Power Research Institute (EPRI). Program Sponsored by Preti Flaherty.
- September **"EPA New England's Priorities for Environmental & Energy Technology," Stephen Perkins, director, EPA Office of Environmental Stewardship.**
- October** **"Alternative Transportation Issues in Maine":** John Engler, Northeast Passenger Rail Authority ; Steven Linnell, Maine Clean Communities (MC2) and Bob Judge, Region 1 EPA.
- November** **"The Role of Environmental & Energy Technology Within Maine's Innovation Agenda:"** Janet Yancey-Wrona, Director, Maine Office of Innovation.
- December** **"Program Priorities Within DEP's Bureau of Remediation and Waste Management:"** Steve Davis, director of the Bureau of Remediation and Waste Management, Maine Department of Environmental Protection.





HAPPY HOLIDAYS

From E2Tech

Marty Grohman & Adelaide Taylor



E2Tech Expo 2017



Past Forums

- *Repairing urban impaired streams in Maine (2011)*
- *Maine's Evolving Wind Energy Resource (2011)*
- *Brunswick's Future Renewable Energy Center (2011)*
- *Building Maine's Cleantech Corridor (2011)*
- *E2Tech Myth Busters (2012)*
- *Environmental Energy and Policy (2012)*
- *Sustainable Buildings (2012)*
- *Tidal Energy (2012)*
- *U.S. Senate Candidate Debate (2012)*
- *Electric and Natural Gas Vehicles (2012)*
- *Geothermal Energy (2012)*
- *Financial Resources for Businesses and Entrepreneurs (2012)*
- *Building and Growing the Cleantech Sector (2013)*
- *Climate Change Adaption (2013)*
- *Stormwater Management Strategies (2013)*
- *Sustainable Food Production in Maine (2013)*
- *Maine's New Energy Policy (2013)*
- *Maine's Environmental Policy Update (2013)*
- *Sustainable Bioplastics (2013)*
- *Maine's Petroleum Market-Economics (2013)*
- *Pioneers of Maine's Next Economy with Phil Coupe (2013)*
- *Modernization of Maine's Mining: Rules and Development (2013)*
- *Brunswick Landing: Accelerating an Innovative and Renewable Future (2013)*





Past Forums

- *Maine's Offshore Wind Project Update (2014)*
- *Reinventing Maine's Pulp, Paper, and Forest Products Industries (2014)*
- *Regional Electric Grid and Natural Gas Pipeline Infrastructure (2014)*
- *Distributed Generation and Microgrids (2014)*
- *Energy, Environmental, and Economic Policy in an Election Year (2014)*
- *Innovation Engineering Workshop (2014)*
- *Navigating the Northeastern Cleantech Cluster Through Wind, Water, and Woods (2014)*
- *The Solid Waste Hierarchy (2014)*
- *Energy, Cleantech, and the Transatlantic Trade and Investment Partnership (2014)*
- *Heat of the Moment: Plans from State Officials, Energy Companies, and Maine's Next Governor (2014)*
- *Organics and Residuals Separation and Processing in the Solid Waste Stream (2014)*
- *Ocean Acidification Forum (2014)*
- *Maine's Energy Policy (2015)*
- *Worker Training and Internship Briefing (2015)*
- *Opportunities in Mexico for Maine Environmental and Energy Companies (2015)*
- *Hydropower: A Dam Good Forum (2015)*
- *Renewable Energy Incentives: Investment or Entitlement? (2015)*
- *"Current" Events in Stormwater (2015)*
- *The Future of the Forestry Industry and Biobased Maine (2015)*
- *Energy Storage: Saving for a (Renewable) Rainy Day (2015)*
- *State of the Environment – Maine DEP Commissioner and Bureau Chiefs*

BLUEPRINT FOR A ZERO CARBON ECONOMY

ACHIEVING MAINE'S CLIMATE GOALS

WEDNESDAY, JUNE 10TH
ZOOM WEBINAR

REGISTER HERE



IS THERE LIFE BEYOND LEED?

An Evening with Mahesh Ramanujam,
CEO of U.S. Green Building Council

MARCH 10, 2020
BRUNSWICK, ME



RECHARGED!

MAINE'S 2019 ENERGY LEGISLATION

AN E2TECH FORUM

SEPTEMBER 25TH
PORTLAND, MAINE



SUMMER NETWORKING



at Flight Deck Brewing

TURN AND FACE THE STRANGE:

ECONOMIC
IMPACTS
OF CLIMATE
CHANGE



FREE E2TECH FORUM!



WINTER SOCIAL

DECEMBER 4TH
SOUTH PORTLAND, ME



E2TECH ROOFTOP SOCIAL

CELEBRATING SUMMER '19 ON THE MOST EPIC ROOFTOP OF PORTLAND



BURNS & MCDONNELL





Past Forums

- *Environmental and Energy Legislative Updates (2015)*
- *E2Tech Expo 2015*
- *Annual Meeting and Forum: Risky Businesses: Floods, Fatalities, and Fear (2015)*
- *Any Fin is Possible: Scaling Up Maine's Aquaculture Industry (2015)*
- *Solar Energy in Maine – Where the Sun Does Shine! (2016)*
- *Maine Transmission Proposals (2016)*
- *Don't Make a Scene, Man! Scenic Impacts of Development (2016)*
- *Endangered Species and Wildlife Protection (2016)*
- *She Blinded Me With Science! The Role of Science in Public Policy (2016)*
- *Sustainability in Maine's Tourism Industry (2016)*
- *Election 2016: Energy, Environment, and the Economy*
- *New England Electricity Outlook – Get Plugged In! (2016)*
- *E2Tech Expo 2016*
- *Wake Up! A Convenient Forum on Climate Change and RGGI (2016)*
- *Maine DEP Commissioner Paul Mercer and Senior Management Team (2017)*
- *Playing Matchmaker – Aligning Energy Challenges with Compatible Policies (2017)*
- *The New Forest Economy – Biobased Power, Products, and Fuels (2017)*
- *Energy Storage and Microgrids: Innovation in the Electricity Sector (2017)*
- *Everyone Knows It's Windy! The State of Wind Energy (2017)*
- *Electrical Grid Futures – Innovation in the Electricity Sector (2017)*

E2Tech Summer Networking Reception (2017)



Past Forums

- *Regional and State Energy Policy Update (2017)*
- *The Future of Fossil Fuels – Heating and Transportation Policy and Strategies (2017)*
- *E2Tech Expo 2017*
- *Maine Energy and Environmental Policy Outlook 2018*
- *Preparing Coastal Communities for Sea Level Rise (2018)*
- *Security, Reliability, and Integration – Analyzing the Regional Energy Grid (2018)*
- *Communications and Civil Discourse – Messaging Strategies in the E2 World (2018)*
- *Environmental Protection Agency (EPA) – Policy Update and Outlook (2018)*
- *Turn and Face the Strange: Economic Impacts of Climate Change (2018)*
- *Gubernatorial Debate on Energy, Environment, Technology, and Economic Development (2018)*
- *It's Getting Hot in Here! Opportunities and Challenges for Heat Pump Technology in Maine (2019)*
- *A Change is Gonna Come – Maine Energy and Environmental Policy (2019)*
- *Electric Vehicles in Maine – You CAN Get There From Here! (2019)*
- *Energy Transformation and the Changing Role of Electric Utilities (2019)*
- *Understanding PFAS – What is it? And what is being done about it? (2019)*
- *Fish Out of Water: Land-Based Aquaculture in Maine (2019)*
- *Epic Rooftop Summer Social (2019)*
- *Recharged! Maine's 2019 Energy Legislation (2019)*
- *Climate Ain't All That's Changing – 2019 Maine Environmental Policy Debate (2019)*

Sustainability in Maine's Tourism Industry (2016)



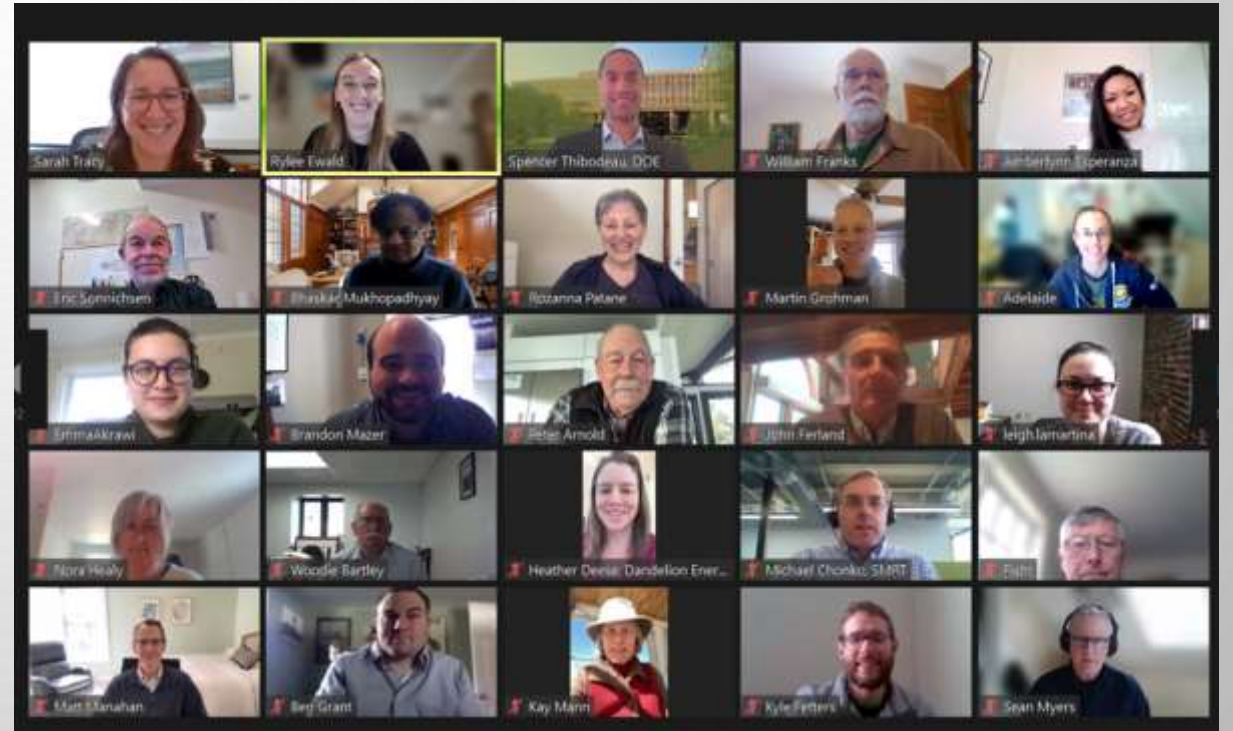
Past Forums

- *Legislative Clean Energy Lunch – Challenges and Opportunities (2020)*
- *The Electrical Grid of Tomorrow: the Role of the Non-Wires Alternatives Coordinator (2020)*
- *Is There Life Beyond LEED? (2020)*
- *Achieving Maine’s Climate Goals: Focus on Transportation and Heating (2020)*
- *Maine Energy Market Updates (2020)*
- *Blueprint for a Zero Carbon Economy (2020)*
- *Tour of Wolfe’s Neck Center (2020)*
- *Renewable Energy Policy in Ghana (2020)*
- *E2Tech Talks Trash (2020)*
- *Emerging Markets for Combined Heat and Power (2020)*
- *Will Maine’s Energy Future be an Equitable Future? (2020)*
- *ENR Committee Session Preview (2020)*
- *EUT Committee Session Preview (2020)*
- *Business Opportunities in the Transition to EV’s (2021)*
- *PFAS Forever? Finding the Way to the Future (2021)*
- *Nature-Like Fishways (2021)*
- *Buzzworthy: The Decline of Native Pollinators (2021)*
- *Planning the Grid of the Future (2021)*
- *The Re-berth of Portland Harbor (2021)*
- *E2Tech Social at Maine Beer Co. (2021)*
- *Farm Tour and Networking at Broad Turn Farm (2021)*
- *Tour and Networking at Rock Row (2021)*
- *Building a Clean Energy Workforce (2022)*
- *Industrial Wood Pellet Markets (2022)*
- *Block Chain Based Solutions (2022)*



Past Forums

- *The Civil Side of Solar (2022)*
- *Spencer Thibodeau, US Department of Energy (2022)*
- *The Maine Space Complex (2022)*
- *Sludge: A Spreading Concern (2022)*
- *Aquaculture in Maine: State of the State (2022)*











Broad Turn Farm – Tour and Networking



Broad Turn Farm – Tour and Networking



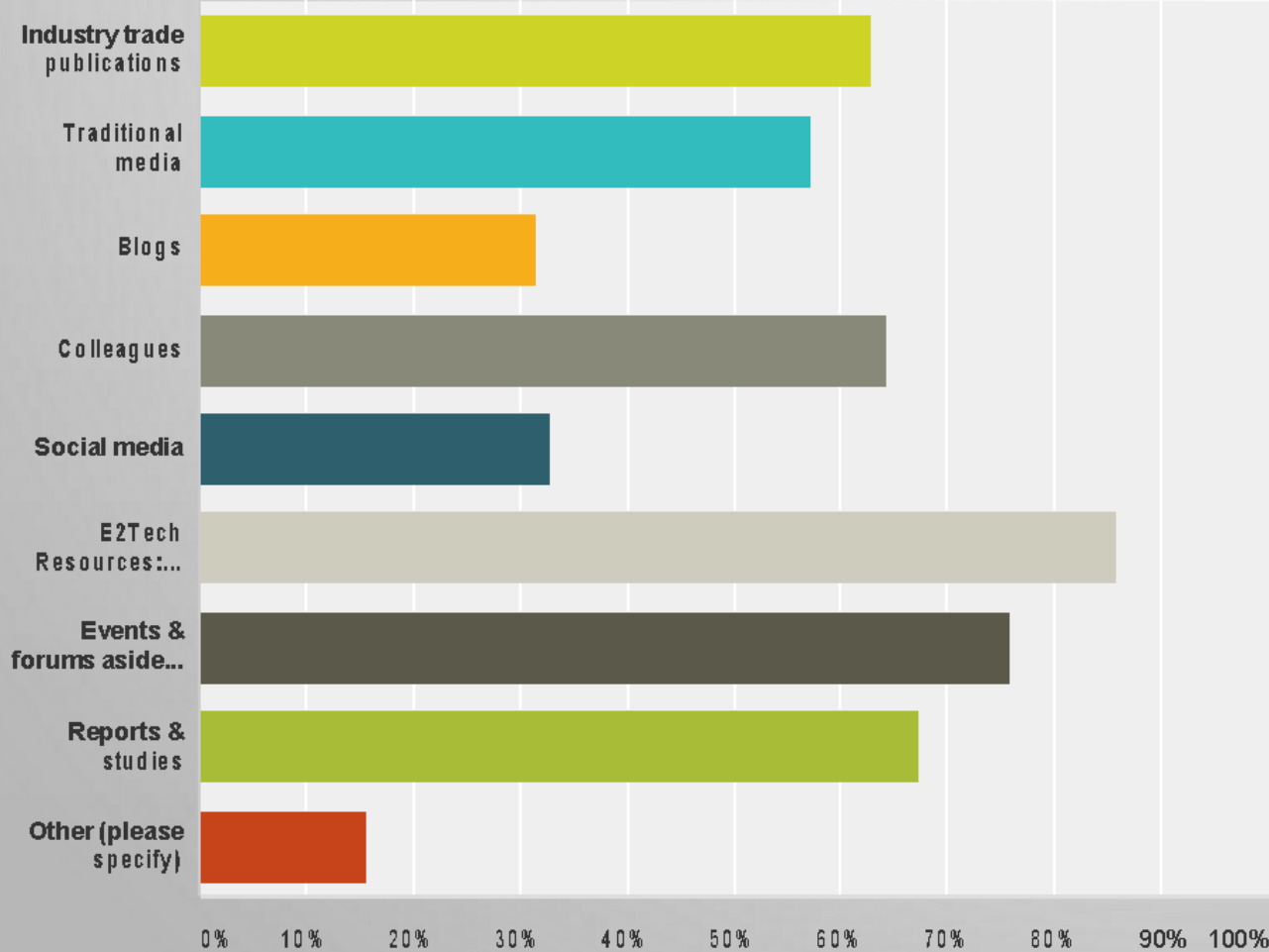






Member Survey (2016)

Answered: 70 Skipped: 1

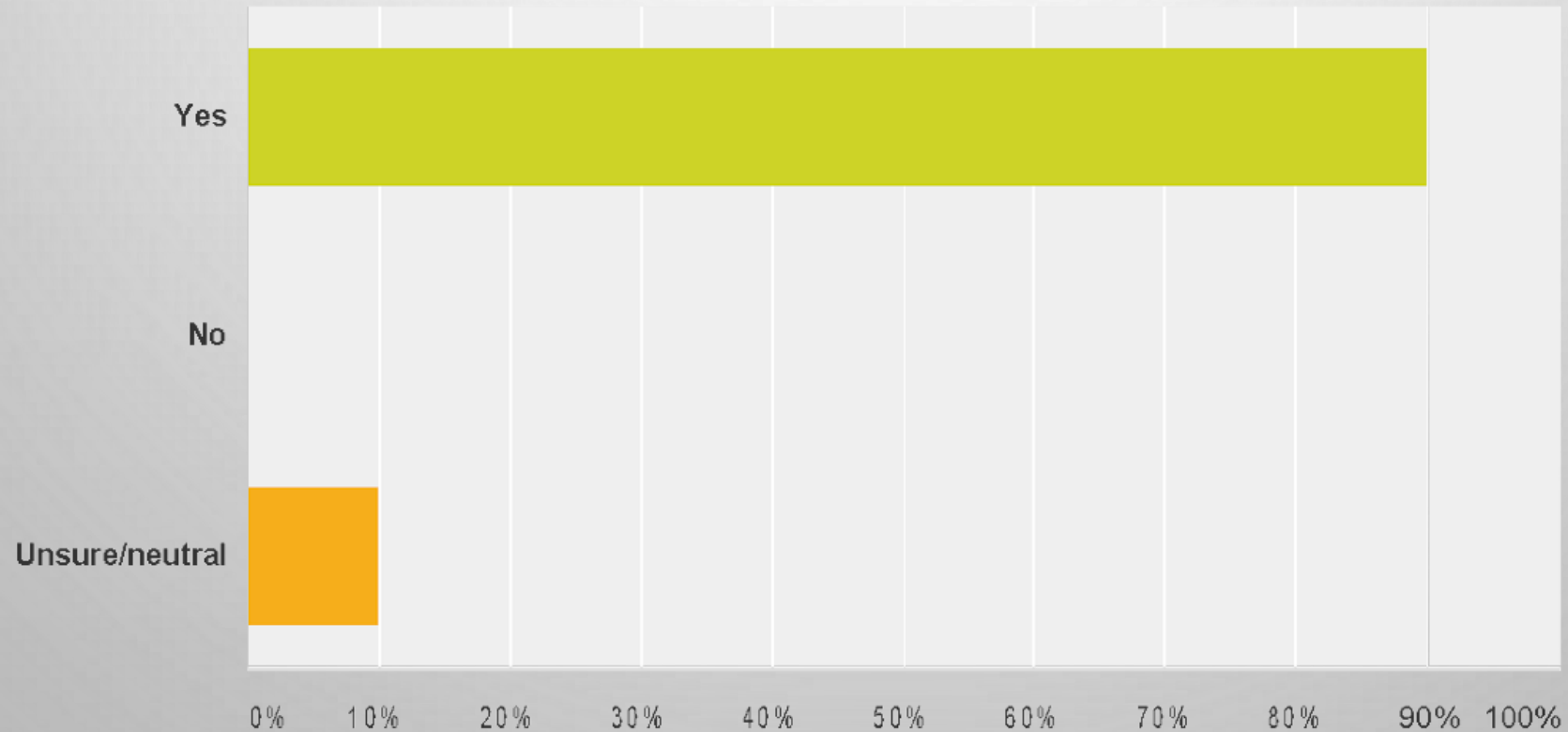


How do you currently obtain information about the energy, environmental, & cleantech sectors?

While not an advocacy group, E2Tech can be a bridge between industry and policymakers. Would you like to see E2Tech as a convener, providing a neutral venue to bring together businesses and policymakers to develop policies and plans to promote innovation, commercialization, and skilled job growth in the energy and environmental sector in Maine?

Member Survey (2016)

Answered: 69 Skipped: 2







**ENVIRONMENTAL & ENERGY
TECHNOLOGY COUNCIL OF
M · A · I · N · E**

PO Box 11435, Portland, ME 04104 Tel: (207) 228-8524; Fax: (207) 228-8526 www.e2tech.org

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University of Maine

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**NOVEMBER FORUM &
ANNUAL MEETING OF MEMBERS**

**THURSDAY, NOVEMBER 20, 2008
MAINE AUDUBON SOCIETY, FALMOUTH, ME**

AGENDA

7:30 – 8:00 REGISTRATION & NETWORKING

8:00 – 8:15 FIFTH ANNUAL MEETING OF MEMBERSHIP

- CALL TO ORDER/DECLARATION OF QUORUM
(Mr. Ron Dyer, Poland Spring Bottling Co.)
- 2007 ANNUAL REPORT
(Mr. Jim Atwell)
- ELECTION OF BOARD OF DIRECTORS
(Mr. Andy Meyer)

8:15 – 9:00 PRESENTATION ON THE REPORT OF THE GOVERNOR'S
WOOD TO ENERGY TASK FORCE
Mr. Les Otten, President, Maine Energy Systems, LLC

9:15 – 9:30 NETWORKING & ADJOURNMENT

Founding Partners

Acadia Environmental Technology	ME Dept. of Environmental Protection	Sevee & Maher Engineers
Bernstein Shur Sawyer & Nelson	Maine State Chamber of Commerce	University of Maine
Center for Environmental Enterprise	Maine Technology Institute	Urquhart & Spritz
Chewonki Foundation	Manufacturing Extension Partnership	Water Energy Distributors, Inc.
Katahdin Analytical Services	Preti Flaherty Beliveau & Pachios	Wright-Pierce
	Mactec Engineering & Consulting	

2008 Annual Meeting Agenda



SUSTAINING STEWARDS





Friday, Nov. 21, 2003

ENVIRONMENTAL & ENERGY TECHNOLOGY COUNCIL OF MAINE ANNUAL REPORT SUMMARY, 2003

ORGANIZATIONAL

Sept. 2002 Maine Technology Institute awards two-year Cluster Enhancement Grant of \$61,440 to the Environmental Business Council of Maine. The grant is matched with \$86,850 from in-kind resources and cash provided by several Maine companies, non profit organizations and the Maine State Chamber of Commerce.

Special thanks to "The Team:"

Jim Atwell, Sevee & Maher Engineers
Larry Brown, Farnsworth Brown Associates
Ron Dyer, Maine Dept. of Environmental Protection
John Ferland, Center for Environmental Enterprise
John Fox, Snotech, Inc.
Norman Gridley, Wright-Pierce
John Logan, Water Energy Distributors, Inc.
Wayne Niles, Maine State Chamber of Commerce
John Peterson, MACTEC Engineering & Consulting
Jim Phipps, Preti Flaherty Beliveau Pachios & Haley
Chet Rock, University of Maine
Joan Saxe, E2 Center
Sig Schutz, Preti Flaherty Beliveau Pachios & Haley
Tom Schwarm, Acadia Environmental Technology
John Spritz, Urquhart & Spritz
Bill Warren, Katahdin Analytical Services

Dec. 2002 First meeting of interim board of directors; Articles of Incorporation filed with Maine Secretary of State

Peter Arnold, Chewonki Foundation
Jim Atwell, Sevee & Maher Engineers
Ron Dyer, Maine Dept. of Environmental Protection
Norman Gridley, Wright-Pierce
Chet Rock, University of Maine
Terry Shehata, Maine MEP
Jeff Thaler, Bernstein Shur Sawyer & Nelson

Jan. 2003 EBCM and the Maine E2 Center merge to create the Environmental & Energy Technology Council of Maine

Feb. 2003 Board adopts By-Laws

May 2003 Board and members of initial strategic team hold retreat with focus on membership development, further development of the board of directors, Forum planning and ideas for other program initiatives. Program Committee is created.

June 2003 Non-profit designation application sent to Internal Revenue Service

Aug. 2003 Peter Ingraham, WPS Energy Services, Inc., joins Board.

Sept. 2003 Jim Hiltner, Casella Waste Systems, joins Board.

Nov. 2003 IRS approves E2 Tech's application for non-profit status as a 501(c)(3) organization

Friday, Nov. 21, 2003

PROGRAMS

Special Thanks to program committee:

Norman Gridley, Wright-Pierce, chair
Peter Arnold, Chewonki Foundation
Chris Briley, TFH Architects
Ron Dyer, Maine DEP
John Ferland, Center for Environmental Enterprise
Peter Ingraham, WPS Services
John Logan, Water Energy Distributors, Inc.
John Peterson, MACTEC Engineering & Consulting
Chet Rock, University of Maine
John Spritz, Urquhart & Spritz

Forums	Nov. 2002	Don Perkins, President, Gulf of Maine Research Institute "Status of Gulf of Maine Research Laboratory Project"
	Jan. 2003	Dr. Chet Rock, "Research and Development Opportunities with the University of Maine System"
	March 2003	Panel Discussion: "How to Finance Your Environmental & Energy Technology Project" with Janet Yancey-Wrona, Ph.D., Director and President of the Maine Technology Institute (MTI); Mark Butterfield, Senior Loan Officer of the Finance Authority of Maine (FAME); and William Webster, executive vice president of Hydrophilix Corp
	June 2003	Commissioner Dawn Gallagher, "Priority Issues Facing the Maine DEP."
	Sept. 2003	Beth A. Nagusky, Director of Energy Independence and Security, "Energy Efficiency and Renewables: Reclaiming Maine's Leadership Role."
	Oct. 2003	James Brooks, director of the Bureau of Air Quality at the Maine DEP, "Upcoming Regulations of Interest to Environmental and Energy Technology Companies"
	Nov. 2003	Gov. John E. Baldacci, "Maine's Economic Development Opportunities for the Environmental & Energy Technology Sectors"

Other Events

Sept. 2002	Energy Expo , University of Southern Maine, Gorham, ME Organized/facilitated panel on innovation and R&D opportunities in Maine.
May, 2003	MaineTech 2003 , Augusta, Me Organized/facilitated panel on case studies of innovative environmental & energy technology companies

Other Services

Information clearinghouse

- **Web site** www.e2tech.org
- **Newsletters** published with information on sector news and early stage financing opportunities
- **Networking:** Numerous introductions, referrals to environmental/energy technology companies, referrals to the university system, and assistance to entrepreneurs, students & job seekers

Environmental Merit Award 2014



E2Tech – Celebrating 10 Years

Ten years ago, E2Tech's vision was to create an organization responsible for aggressively promoting, organizing and supporting job growth and business interaction within the environmental / energy technology sector. This vision remains at the core of E2Tech's mission in 2012!

The organization has grown to a membership of about 175 companies, non-profits, educational institutions, government agencies, and others. In 2012, E2Tech accelerated its project work, held one of the first U.S. Senate debates, celebrated its 10th Anniversary, added members with innovative successes in the E2 sectors, hired a full-time executive director, and positioned itself to significantly enhance future success in commercializing alternative energy and environmental technologies that have a high potential to gain market acceptance. E2Tech members are on the cutting edge of this market and we are working to identify and pursue policies, projects, partnerships and financing to encourage investment in and awareness of their products and services.

E2Tech Senate Debate

E2Tech hosted the first debate featuring all of the major candidates vying to fill Maine's U.S. Senate seat vacated by Senator Olympia Snowe: State Senator Cynthia Dill (Democrat), Former Governor Angus King (Independent) and Secretary of State Charles Summers (Republican).



E2Tech's U.S. Senate Debate 2012: Moderator Jeff Thaler, Governor Angus King, Secretary of State Charlie Summers, and another man.



E2Tech 10th Anniversary Celebration

E2Tech presented three organizations with the first-ever "E2 Can Do!" awards. Ocean Renewable Power Company, Efficiency Maine and the Chewonki Foundation were recognized for their demonstrated leadership in the business sector, public sector and education.



Tom Brubaker (Midcoast Regional Redevelopment Authority); Jim Atwell (Sevee & Maher); Jeff Marks (E2Tech).



John Ferland (Ocean Renewable Power Company); Jeff Thaler (University of Maine).



Todd Nicholson (Maine Audubon) and Brad Tirone (GZA GeoEnvironmental).



Annual Report 2012

The Environmental and Energy Technology Council of Maine (E2Tech) seeks to build and expand the State's environmental, energy and clean technology sectors. E2Tech acts as a catalyst to stimulate growth by facilitating networking, serving as a clearinghouse for objective information and leading efforts to promote the sector.

E2Tech Offers:

- Education through our forum lecture series and workshops.
- Networking with other members in sectors which include manufacturers, suppliers, professional services firms, regulators, lenders & investors, and E2Tech partner organizations.
- Opportunity to participate in E2Tech projects which promote:
 - Business development and sustainable job growth;
 - Research and development;
 - New product commercialization;
 - Clean tech cluster initiatives; and
 - Supply chain development for the clean tech sector.

2012 Highlights

- E2Tech hosted 950 attendees at 14 events with 33 sponsors.
- E2Tech initiated and continued five major energy and environmental technology and economic development projects with the support of its partners.
- E2Tech grew to 175 members.
- E2Tech celebrated our 10 year anniversary.

For more info, visit www.e2tech.org or contact Jeff Marks, Executive Director, at director@e2tech.org.

2012 E2Tech Forums & Events

January

Financing Maine's Clean Tech Sector

February

Clean Tech Collaborative

March

2012 Maine Environmental & Energy Policy (Augusta, Maine)
AMEC/MITC Networking Event

April

UMaine: Clean Tech Innovation Partner

May

Sustainable Buildings & Site Development Trends in Maine

June

21st Century Maine: Warmer, Wetter, Wilder (with Clean Air / Cool Planet)
Tidal Energy & Maine's International Growth Opportunity
Boyle Associates Networking Event

September

US Senate Candidate Debate
E2Tech 10th Anniversary Dinner

October

Electric & Natural Gas Vehicles: Reducing Maine's Oil Dependence

November

Celebrating Member Success Stories

December

In the Loop: Geothermal Energy in Maine's Homes & Businesses

EXECUTIVE SUMMARY

MAINE FUTURE FOREST ECONOMY PROJECT



CURRENT CONDITIONS AND FACTORS INFLUENCING THE FUTURE OF MAINE'S FOREST PRODUCTS INDUSTRY

MARCH 2005

PREPARED FOR:

DEPARTMENT OF CONSERVATION – MAINE FOREST SERVICE
AND
MAINE TECHNOLOGY INSTITUTE

11. Forest product manufacturers or industry sectors should work together to develop entrepreneurial networks, share information, and learn about emerging opportunities.

Many people from the forest products industry (both large and small companies) we spoke to as part of this research indicated that they seek information on a wide variety of topics, including anticipated changes in the marketplace, programs available to assist Maine industries, marketing of Maine forest products, and opportunities in the developing renewable energy marketplace.

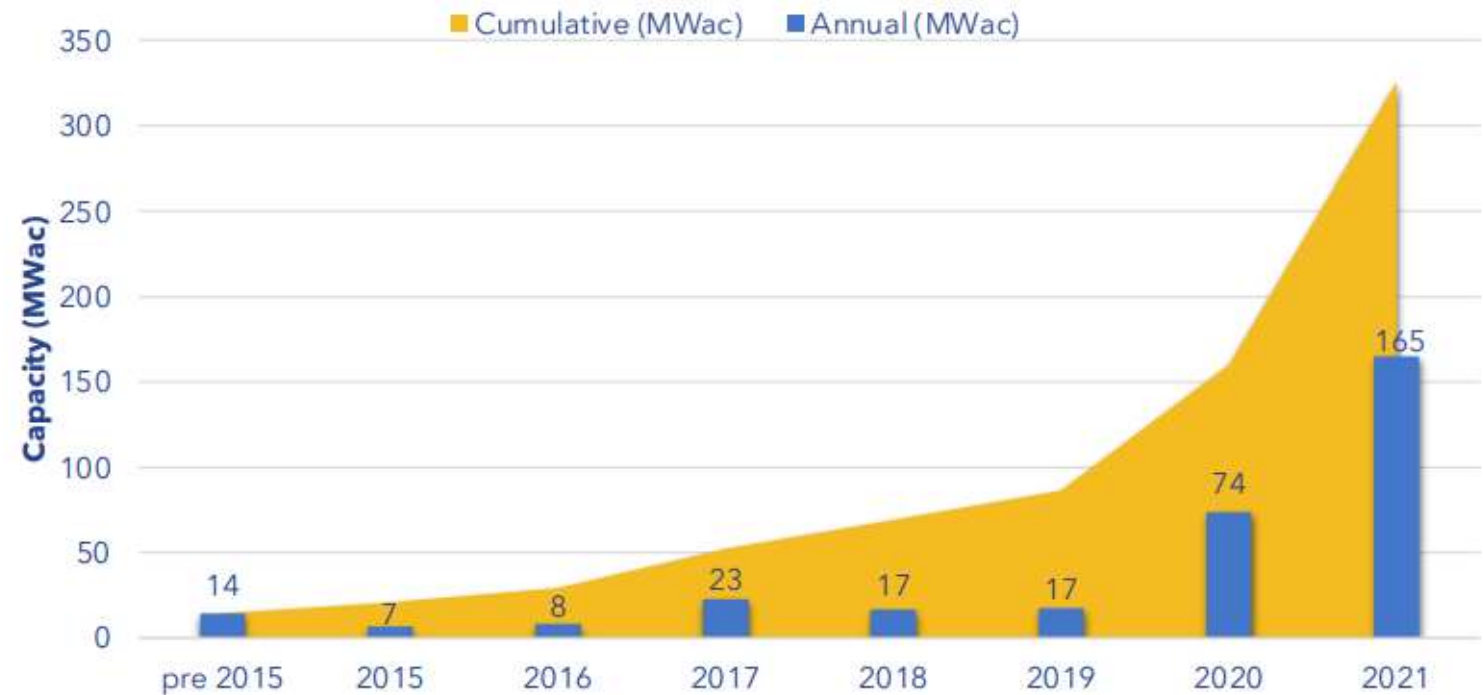
It appears that there is an opportunity for Maine forest industries to create a forum – either within or external to existing trade associations – that could bring this information to industry leaders. If a forum like this is to start, it must come from within the industry, and it must meet the needs identified by Maine forest industries^{xiv}. It should *not* seek to replicate or replace the existing advocacy function played by Maine's forest industry trade associations, but should instead focus on the non-advocacy needs of forest industries that are best developed through information sharing and network development.

A good example of such an organization in Maine is the Environment & Energy Technology Council of Maine (E2 Tech Council). This organization is focused on the “creation of a communication, networking and information infrastructure that creates business development opportunities, provides technical assistance and increases knowledge regarding innovation.” Some Maine forest industries may benefit from participation in this organization or some of its events^{xv}, and this organization may serve as a model for Maine product manufacturers seeking to learn about and share new ideas.

It must be noted that such a forum, like all trade groups, must be careful not to engage in any activity that would violate anti-trust laws. This includes any activities that would have potential competitors directly address or discuss prices (including bids), costs, production capacities, credit standards, marketing strategies, market shares, customer or supplier classification, sales territories, sales policies, or any other matters covered by State or Federal antitrust laws.

The sharing of success stories is also a critical part of developing an entrepreneurial culture, where firms publicly highlight their successful adoption of new ideas and business practices. This practice runs largely counter to the existing culture of Maine's forest industry, where innovations are kept close to the vest, and information sharing is

Solar generation installed in Maine



Source: ISO New England.

By State

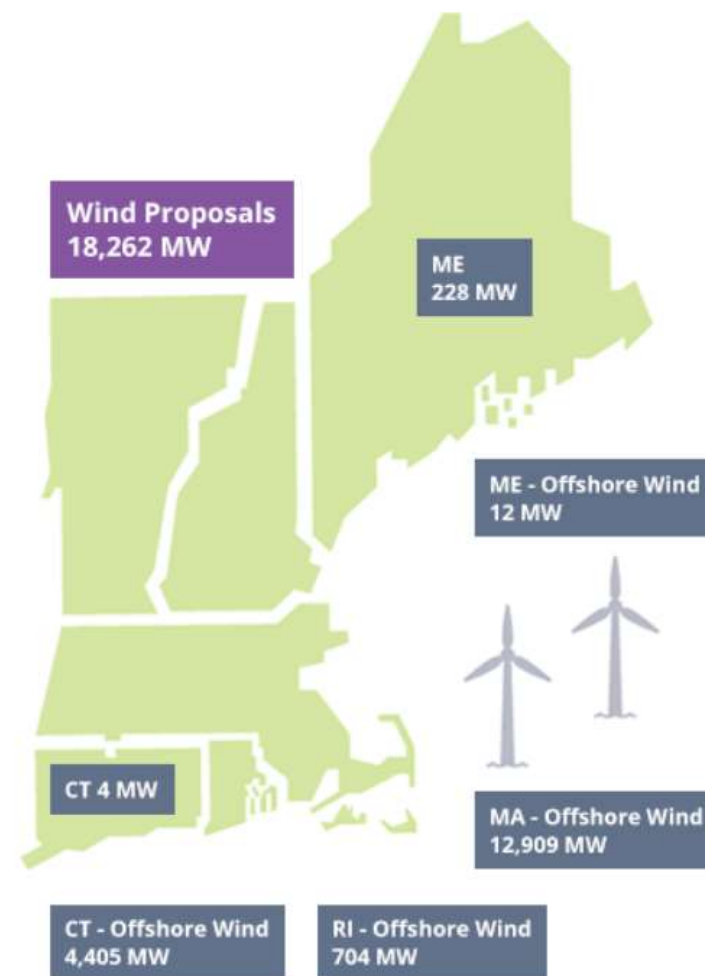


- 61% MA (18,154 MW)
- 23% CT (7,003 MW)
- 8% ME (2,320 MW)
- 5% RI (1,655 MW)
- 2% NH (699 MW)
- <1% VT (105 MW)

By Type



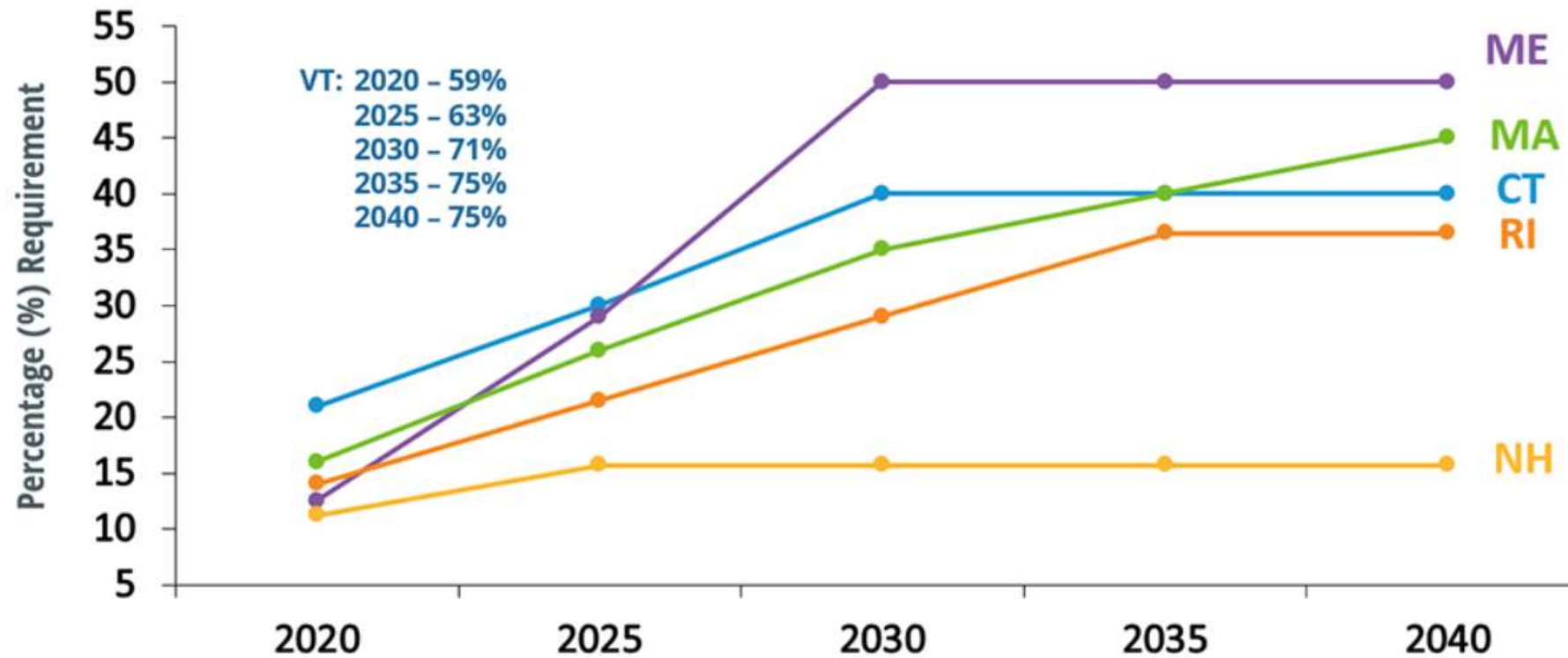
- 60% Wind (18,262 MW)
- 15% Solar (4,421 MW)
- 21% Battery Storage (6,510 MW)
- 3% Natural Gas (884 MW)
- <1% Other (130 MW Hydro, 52 MW Fuel Cell, 37 MW Nuclear Uprate)



Source: ISO Generator Interconnection Queue (January 2022); FERC and Non-FERC Jurisdictional Proposals; Nameplate Capacity Ratings

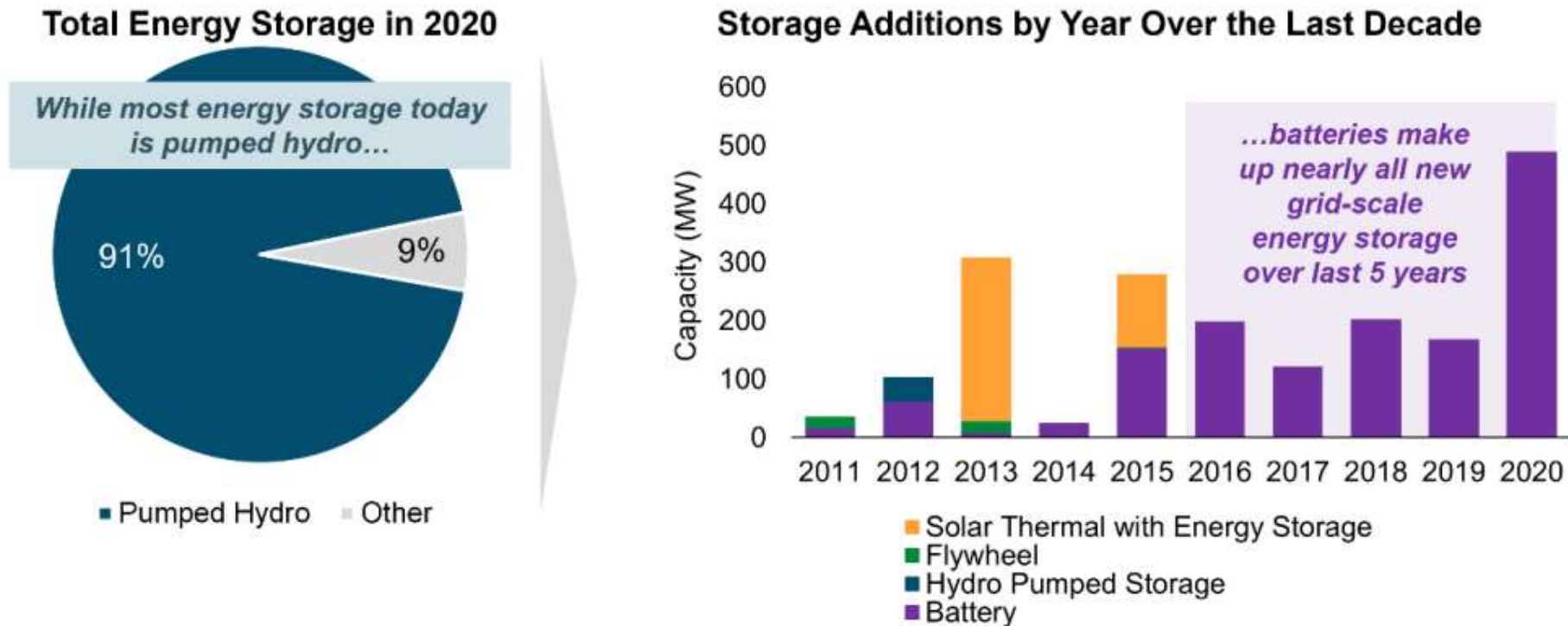
Note: Some natural gas proposals include dual-fuel units (with oil backup). Some natural gas, wind, and solar proposals include battery storage.

State Renewable Portfolio Standard (RPS)* for Class I or New Renewable Energy



Notes: State RPS requirements promote the development of renewable energy resources by requiring electricity providers (electric distribution companies and competitive suppliers) to serve a minimum percentage of their retail load using renewable energy. Connecticut's Class I RPS requirement plateaus at 40% in 2030. Maine's Class I/IA RPS requirement increases to 50% in 2030 and remains at that level each year thereafter. Massachusetts' Class I RPS requirement increases by 2% each year between 2020 and 2030, reverting back to 1% each year thereafter, with no stated expiration date. New Hampshire's percentages include the requirements for both Class I and Class II resources (Class II resources are new solar technologies beginning operation after January 1, 2006). New Hampshire's Class I and Class II RPS requirements plateau at 15.7% in 2025. Rhode Island's requirement for 'new' renewable energy plateaus at 36.5% in 2035. Vermont's 'total renewable energy' requirement plateaus at 75% in 2032; it recognizes all forms of new and existing renewable energy and is unique in classifying large-scale hydropower as renewable.

Figure 4. Existing Grid-Connected Energy Storage Capacity in the United States and Annual U.S. Storage Additions Since 2010²⁶



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