



ENERGY ACTION NETWORK

Annual Report 2013

Energy Action Network Participants

all lists current as of 1/14

MEMBERS

| | | | |
|------------------|---|--------------------|--|
| Peter Adamczyk | Vermont Energy Investment Corporation | Laurie Fielder | Vermont State Employees Credit Union |
| Charles Baker | Chittenden County Regional Planning Committee | Sara Gilbert | NeighborWorks of Western Vermont |
| Robert Barton | Catalyst Financial | Karen Glitman | Vermont Energy Investment Corporation |
| Amanda Beraldi | Green Mountain Power | Steve Greenfield | Vermont Economic Development Authority |
| Arthur Berndt | Maverick Lloyd Foundation | Robert Griffin | Green Mountain Power |
| Anne Berndt | Maverick Lloyd Foundation | John Hollar | City of Montpelier |
| Janet Besser | New England Clean Energy Council | Karen Horn | Vermont League of Cities and Towns |
| Ludy Biddle | NeighborWorks of Western Vermont | Scott Johnstone | Vermont Energy Investment Corporation |
| Kathryn Blume | Vermontivate | Dan Jones | Montpelier Energy Advisory Committee |
| Peter Bourne | Bourne's Energy | Ellen Kahler | Vermont Sustainable Jobs Fund |
| Lee Bouyea | Fresh Tracks Capital | Emily Levin | Vermont Energy Investment Corporation |
| Melody Burkins | University of Vermont | Julie Lineberger | LineSync Architecture |
| Laurie Burnham | Sandia National Laboratory | Paul Markowitz | Vermont Energy Investment Corporation |
| Paul Burns | Vermont Public Interest Research Group | Linda McGinnis | Independent Policy Analyst/Economist |
| Megan Camp | Shelburne Farms | Carrie McLaughlin | |
| Erin Carroll | Vermont Energy Investment Corporation | Ralph Meima | Brattleboro Energy Committee |
| Joseph Cincotta | LineSync Architecture | Jim Merriam | Efficiency Vermont |
| Hal Cohen | Central Vermont Community Action Council | Bill Miller | Green Lantern Capital |
| Andrea Cohen | Vermont Businesses for Social Responsibility | Johanna Miller | Vermont Natural Resources Council |
| Paul Costello | Vermont Council on Rural Development | James Moore | SunCommon |
| Steve Costello | Green Mountain Power | Brian Otley | Green Mountain Power |
| Matthew Cota | Vermont Fuel Dealers Association | Timothy Palmer | VerMentor |
| Catherine Davis | Lake Champlain Regional Chamber of Commerce | Scudder Parker | Vermont Energy Investment Corporation |
| Robert Dostis | Green Mountain Power | Kenneth Perine | National Bank of Middlebury |
| Janet Doyle | IBM | Ernie Pomerleau | Pomerleau Real Estate |
| William Driscoll | Associated Industries of Vermont | Mary Powell | Green Mountain Power |
| Matthew Dunne | Google | William Raap | Gardener's Supply |
| Peg Elmer | Community-Resilience.org | Patty Richards | Washington Electric Cooperative |
| Rebecca Ellis | Vermont House of Representatives | Greg Rieder | IBM |
| Jon Erickson | UVM, Rubenstein School | William Sayre | Associated Industries of Vermont |
| Richard Faesy | Energy Futures Group | Elizabeth Schlegel | Institute for Sustainable Communities |
| Anders Ferguson | Veris Wealth Partners | Leigh Seddon | L.W. Seddon Consulting |

STATE PARTNERS

| | | | |
|-----------------|---|------------------|---|
| Chuck Ross | Agency of Agriculture, Secretary | Deb Markowitz | Agency of Natural Resources, Secretary |
| Alex DePillis | Agency of Agriculture | Elizabeth Pearce | State Treasurer |
| Lawrence Miller | Agency of Commerce & Community Development, Secretary | Chris Recchia | Public Service Department, Commissioner |
| Ken Jones | Agency of Commerce & Community Development | Asa Hopkins | Public Service Department |
| | | Darren Springer | Public Service Department |

Timothy Shea National Life Group
 Ron Shems
 Amy Shollenberger Action Circles
 Luke Shullenberger Green Lantern Capital
 Sarah Simonds Vital Communities
 Mary Margaret Sloan Vital Communities
 Janice St. Onge Vermont Sustainable Jobs Fund
 Gabrielle Stebbins Renewable Energy Vermont
 Mary Sullivan Burlington Electric Department
 Sam Swanson Pace Law School Energy & Climate Center
 Gaye Symington High Meadows Fund
 Thomas Torti Lake Champlain Regional Chamber of Commerce
 George Twigg Vermont Energy Investment Corporation
 Marianne Tyrrell Catalyst Financial
 Bob Walker Sustainable Energy Resource Group
 Benjamin Walsh Vermont Public Interest Research Group
 Richard Weston Regulatory Assistance Project
 Bradway Widing Hickock Boardman Insurance
 Jeffery Wolfe Jeff Wolfe Consulting
 Karen Yacos Green Mountain Coffee Roasters
 Eric Zencey UVM Gund Institute

EAN STAFF

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Program Director

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ENERGY ACTION NETWORK

A Letter from EAN's Executive Director & Board Chair

Energy Action Network (EAN) has finished its first full year of on-the-ground implementation efforts which have included a broad range of activities to support our mission of creating clean, affordable, and secure energy systems in Vermont for the 21st century. Specifically, EAN has:

- Launched specific, tangible initiatives across our four leverage point areas;
- Established a central staff and core organizational capacity;
- Adopted a formal network structure and expanded its board of directors;
- Gained significant new membership and expanded participation;
- More than doubled our base of support from foundations.

EAN is up and running, making a difference to energy action in Vermont.

This annual report highlights our work over the past year including development of a long-term communications strategy to advance public support for clean energy; co-convening the Clean Energy Finance Summit with Governor Shumlin's administration and Senator Sanders' office to define and advance clean energy finance strategies; taking first steps towards helping the City of Montpelier become the nation's first Net Zero state capital; initiating Vermont's first "Community Energy Dashboard" to enable energy customers of all types to understand and change how they use energy; and supporting development of a robust "Total Energy Standard" by working with the State of Vermont and the University of Vermont to help assess Vermont's energy choices and options.

Underpinning all of this work, EAN has continued to research and analyze pathways to a clean energy economy. Our recently completed report, **90% Renewable by 2050: Exploring Vermont's Efficiency and Renewable Energy Pathways**, defines technology and policy pathways that can help Vermont achieve the goals of the Comprehensive Energy Plan. This report includes a series of decade milestones for each energy use sector to illustrate where we might be in 2020, 2030, 2040, en route to 90% renewables in 2050.

We approach the year ahead with great hope and sincere appreciation for the work and support EAN has received from its members and funders.

Andrea L. Colnes
Executive Director

Leigh Seddon
Board Chair

About Energy Action Network

History

EAN is a diverse group of businesses, non-profits, public agencies and other high-level stakeholders seeking to advance the State's transition to a sustainable energy future. EAN's work is based on an in-depth systems analysis which led to identification of four key leverage points that can drive large scale transformation of Vermont's energy system to one based on efficiency and renewables. The four leverage points that form the backbone of EAN's structure are: Capital Mobilization, Technology Innovation, Public Engagement and Regulatory Reform.



EAN recognizes that achieving our goals will require more than the capacity of individual organizations. Changing large, complex systems requires a network approach to harness the power of individual efforts into a leveraged whole. EAN makes this collaboration possible by providing a structure through which private, non-profit and public organizations can work together to achieve transformation of the larger energy system.

Mission

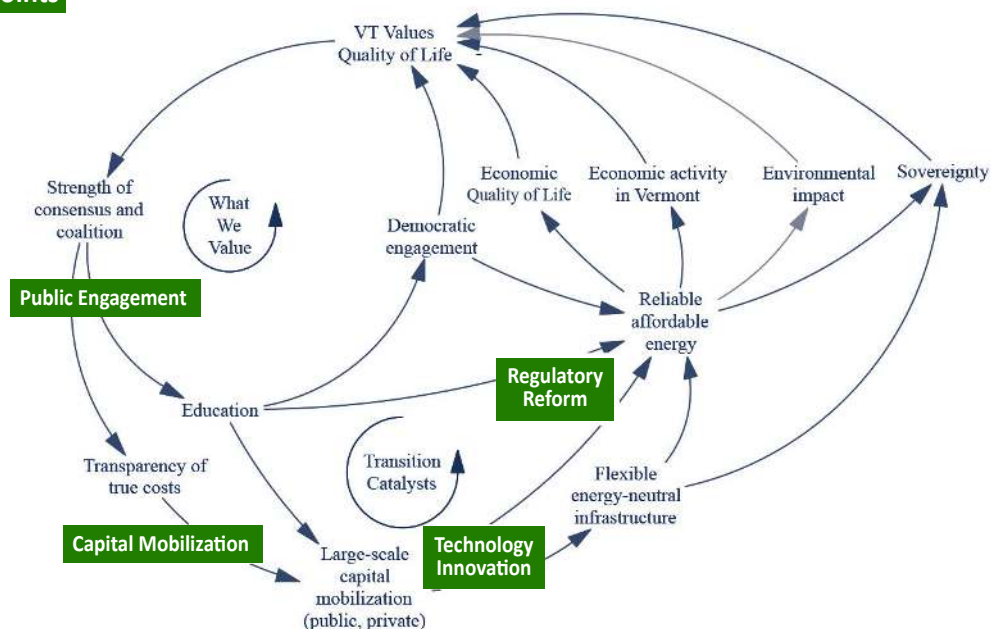
EAN's mission is to end Vermont's reliance on fossil fuels and to create clean, affordable and secure electric, heating, and transportation systems for the 21st Century.

Approach

EAN's work is based on an in-depth systems analysis of Vermont's energy systems. Our members used their diverse perspectives and viewpoints to boil down this complex system into four core leverage points that could catalyze a shift to a system based on efficiency and renewables. While working to achieve this level of change in Vermont, EAN is also striving to provide a replicable model for other states in the northeast and elsewhere across the US.

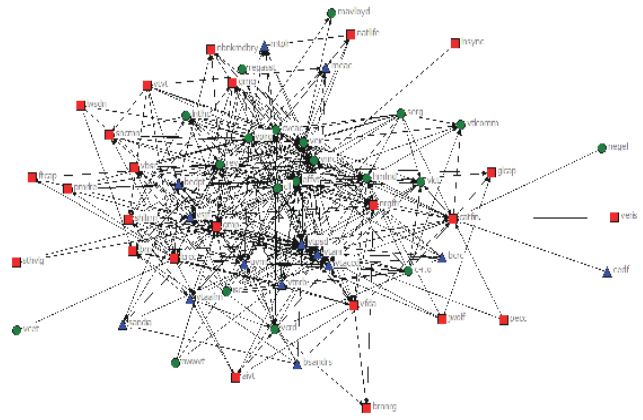
EAN System Mapping

4 Leverage Points



Network Mapping Project

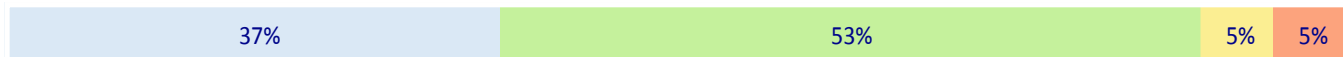
To evaluate the effectiveness of our network and measure our growth and evolution as an organization, EAN embarked on a multi-year Network Mapping Project in 2013. Staff surveyed 81 EAN members following our Annual Meeting in October. The results, summarized below, show how respondents perceive the value of EAN. Information from the survey is being used to generate a series of network maps like the sample shown at right. EAN will assess its effectiveness by monitoring how these maps change over time.



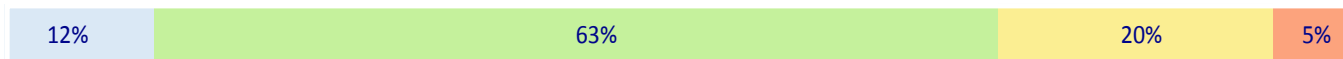
Highlights from EAN's 2013 Network Mapping Survey

KEY: ■ = Strongly Agree ■ = Agree ■ = Neutral ■ = Disagree ■ = Strongly Disagree
no respondents strongly disagreed

1. EAN's work adds value to our collective effort in VT to transition to a clean energy economy:



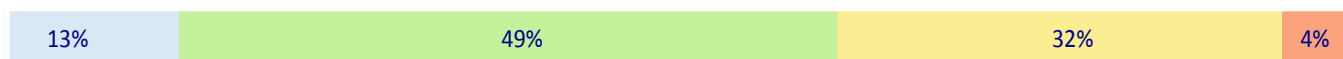
2. EAN's work adds value to my organization and/or field of work:



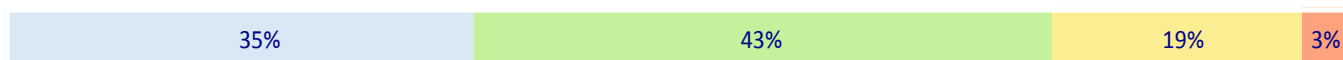
3. How does EAN add value to your organization?

| | |
|--|-----|
| Through the sharing of information (e.g. events, documents, news) | 66% |
| By initiating/doing work that my organization is not in a position to do | 52% |
| By collaborating on projects with other EAN members | 44% |
| By gaining access to people, especially key stakeholders and decision makers | 58% |
| By providing a diversity of perspectives on topics | 60% |
| EAN does not add value to my work | 7% |

4. EAN helps my organization develop new ties with other organizations that share a common interest in clean energy:



5. EAN helps me develop new ties with other people who share a common interest in clean energy:



93% are actively engaged in EAN

defined as participating in at least one EAN all-network meeting and/or one of the four leverage point work groups

CM

Capital Mobilization Work Group

as of 1/14

Bob Barton, co-chair
Catalyst Financial Group
Marianne Tyrrell, co-chair
Catalyst Financial Group
Peter, Adamczyk
VEIC
Ludy Biddle
NeighborWorks of WVT
Lee Boyeau
Fresh Tracks Capital
Hal Cohen
CVCAC
Laurie Fielder
VSECU
Abby Friedman
VLCT

Steve Greenfield
VEDA
Robert Griffin
Green Mountain Power
Karen Horn
VLCT
Ralph Meima
Brattleboro Energy Cmte.
Bill Miller
Green Lantern Capital
Lawrence Miller
ACCD
James Moore
SunCommon
Elizabeth Pearce
State Treasurer

Kenneth Perine
Nat'l Bank of Middlebury
Ernie Pomerleau
Pomerleau Real Estate
William Raap
Gardener's Supply
Luke Shullenberger
Green Lantern Capital
Darren Springer
Public Service Department
Janice St. Onge
VSJF
Gaye Symington
High Meadows Fund
Mary Westervelt
Catalyst Financial

2013 Overview

The goal of EAN's Capital Mobilization work group is to apply capital on a transformative scale to investments in energy efficiency and renewables across all energy sectors in Vermont. EAN's work supports public and private partnership and innovative finance models that can create a stable long-term investment environment, competitive returns, and minimize risk and uncertainty for investors. Over the coming year, project and implementation priorities will build on the June 17, 2013 Clean Energy Finance Summit which brought together more than 140 leaders from business, government, and communities to advance on-the-ground clean energy finance tools.

Highlight: Clean Energy Finance Summit II: June 17, 2013

EAN's CM work group was instrumental in convening the second Clean Energy Finance Summit. The full-day working session summit included a morning plenary with energy updates from Senator Bernie Sanders, Congressman Peter Welch, and Governor Peter Shumlin -- who signed three energy-related bills into law at the event. The keynote speaker was David Danielson from the US Department of Energy. The afternoon was devoted to four working-session tracks focused on key clean energy finance issues in Vermont.

Action Priorities Identified at EAN's 2013 Annual Meeting

- **Seek regulatory assurances that support Vermont's transition to a clean energy economy** such as lifting the 4% net metering cap; developing a more effective rate structure; and, at the federal level, focusing on consistent tax policy – before Investment Tax Credits expire in 2016.
- **Apply and utilize VEDA funds** to build case studies that establish a track record for financing clean energy projects.
- **Provide bank, investor and lender education** to address risk perception & enhance credit for clean energy projects.
- **Define near-term capital requirements** to reach the first 2020 milestone along our path to 90% by 2050.
- **Advocate raising public funds** for energy efficiency and renewable projects.
- **Apply crowd funding** as a complimentary strategy to build a direct connection between Vermonters and clean energy projects.
- **Develop project aggregation strategies and bring Energy Savings Performance Contracts** to Vermont by using the successful models offered by the DOE and the State of Massachusetts.
- **Amend Qualified Energy Conservation Bond (QECB) guidelines** to support investing in renewables and energy efficiency improvements for affordable housing and state buildings.

Capital Mobilization



Federal wind tax credits helped Green Mountain Power invest in building a 63 MW wind farm in Lowell, Vermont.



Suncommon's leasing program helps make solar more affordable for more Vermont homeowners.



V5JF grants have jumpstarted Vermont's biofuels industry.

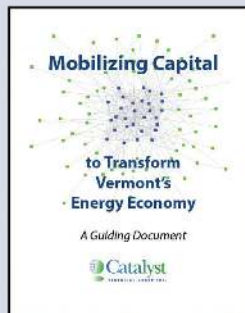
GOAL

To mobilize capital on a large scale to fund transformative investments in energy efficiency and renewables across all energy sectors in Vermont, including public-private partnerships and innovative finance models.

WORK



In 2012 EAN developed an energy scenario illustrating how to meet 80% of Vermont's 2030 energy needs through efficiency and renewables.



This Guiding Document outlines broad costs and funding and financing options to achieve our goal of 80% by 2030.



More than 130 key energy stakeholders attended the CEFS, a working session summit to identify actionable priorities to finance Vermont's transition to a clean energy economy.

NEXT STEPS

Some of the actionable priorities that are emerging from the Capital Mobilization work group include:

- On-bill energy efficiency and renewables financing
- Strengthening residential performance guarantee programs for efficiency investments
- Education for lenders on non-recourse, project-finance lending
- Community energy guides and toolkits
- Applying Qualified Energy Conservation Bonds to Vermont projects
- Public Sector building efficiency and state-lead-by-example projects



One of four working sessions during the 2013 Clean Energy Finance Summit

Public Engagement



GOAL

To provide clear, concise information and compelling messages as tools to help our members “move the middle” and transform Vermont’s energy-use culture.

We Can Do It!



WORK

MASTER FRAME



Collective Effort



Economic Opportunity



Vermont Values

- small business
- planning officials
- foresters
- large businesses

- farmers
- selectboard members
- community leaders
- voters

ID KEY AUDIENCES

NEXT STEPS

Network launches clean energy campaign!



PE

Public Engagement Work Group

as of 1/14

Megan Camp, chair
Shelburne Farms

Kathryn Blume
Vermontivate

Aaron Brown
Vital Communities

Alex DePillis
Agency of Agriculture

Robert Dostis
Green Mountain Power

Karen Horn
VLCT

Johanna Miller
VNRC

James Moore
SunCommon

Amy Shollenberger
Action Circles

Darren Springer
Public Service Department

Gabrielle Stebbins
REV

Mary Sullivan
Burlington Electric Department

Gaye Symington
High Meadows Fund

George Twigg
VEIC

Bob Walker
SERG

Benjamin Walsh
VPIRG

Eric Zencey
UVM Gund Institute

2013 Overview

To realize our goal of transforming Vermont's energy system, we need to engage and educate the public and make energy choices transparent. The goal for EAN's Public Engagement work group is to provide clear, concise information and messages that can be used by EAN members to change behavior and transform Vermont's energy-use culture. EAN has completed significant work in creating a Master Frame to underpin clean energy communications in Vermont. Over the coming year EAN will begin to implement a five-year strategic plan to gain broad public support for clean energy. This ambitious work will chart new ground and serve as a model for other states in the region and elsewhere across the US.

Highlight: Developing a Master Frame

A master frame is "the core story." It is a coherent, big picture narrative that explains why an issue matters, what the challenge is, how to solve it, and who can play a role in solving it. EAN contracted with Davey Associates to help the Public Engagement work group develop a Master Frame for clean energy. The main elements of the frame involve telling a "causal story" starting with Vermont values, stressing the need for collective action, and highlighting the economic benefits of transitioning to a clean energy economy.

This work provides valuable guidance to help EAN members develop compelling messages related to renewables, efficiency and the need to transition to a clean energy economy. It also lays the groundwork for developing a long-term communications strategy to "move the middle" and unite Vermonters in prioritizing our transition to renewables and efficiency in Vermont.

Action Priorities Identified at EAN's 2013 Annual Meeting

- **Branding:** Develop a brand to characterize EAN's joint communications effort.
- **Message Development:** Using EAN's "Master Frame," define specific, sequential messages to move the middle towards broad support of a clean energy economy in Vermont.
- **Message Delivery:** Promote stories of Vermont clean energy champions and a consistent flow of stories about clean energy action, success and challenges to show what is possible and what is needed to meet Vermont's goals. Create a central website to serve as an information hub for this campaign.
- **Metrics:** Conduct public opinion research as a basis for message development, to monitor progress and inform our overall clean energy campaign strategy.

5-Year Clean Energy Communications Strategy

Building on our Master Frame, EAN's Public Engagement work group has developed a long-term communications strategy to support Vermont's transition to a clean energy economy. Through this effort we will work with EAN members and other partners to align our voices and communicate more clearly and consistently about:

- What a clean energy economy looks like in Vermont;
- Why it is essential for individuals, businesses, communities and environment; and
- What issues must be addressed if we are to realize a resilient and robust energy future.

EAN's communications strategy seeks to change "social norms" about how we understand energy and to open pathways for bold action and transformation at scale across all energy sectors. The infographic on the facing page summarizes EAN's approach, which is based on communicating the experiences of Vermont residents and businesses in increasing energy efficiency and shifting to renewable energy sources. We will develop messages to inspire Vermonters to make the transition to clean energy through:

1. Creating an Umbrella Brand to help align our message and voices;
2. Crafting messages that tie national clean energy news to opportunities in Vermont; and
3. Telling Clean Energy Champion stories about how investing in renewables and efficiency is benefiting Vermonters, businesses, or communities.

The stories, messages and energy facts associated with the clean energy campaign will be archived on a new website as a resource for information about clean energy and the economic opportunity it holds for Vermont.

Message Development

EAN recently completed an analysis identifying a series of decade milestones en route to our goal of 90% renewables by 2050 (see page 16). This work will inform our message development and help to communicate our overarching theme: *transitioning to a clean energy economy is not just a challenge, it's an economic and social opportunity for Vermont.*



Vermont Clean Energy Communications Campaign

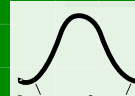
Vermont and Vermonters need to take bold, transformative action to shift off of fossil fuels and create a clean energy economy powered by efficiency and renewables.

The solution:

Align our voices. Speak to the middle. EAN will implement a unified communications campaign to move mainstream Vermonters to realize that clean energy is critical to Vermont's economy, its environment and its values. By combining EAN central coordination with member action, we can bring residents, businesses and leaders to action to achieve Vermont's goal of providing 90% of our energy needs from renewable resources by 2050.




Overarching Strategies



Detractors Supporters
Move the Middle



Own the Message so it Can't Be Bought



Build on Common Ground



Align, Amplify & Audience

EAN-central coordinates and packages. EAN members push out the message to media, members and others in their networks.

#1 Develop the Brand

- Create a clear and iconic umbrella brand and message to anchor our communications campaign.
- Survey Vermonters at baseline and intervals
- Periodic assessment of beliefs, values and understanding of clean energy in Vermont
- Re-align messages to speak to where Vermonters are now



#2 Broadcast Message of the Week

- Create a constant drumbeat of what is possible, what is needed and what is happening pushed out through EAN networks.
- Share national stories with a Vermont perspective to both applaud and challenge us.



#3 Promote Stories of Vermont Clean Economy Champions

- Encourage action and connect to values through real people and believable local stories.
- Create bi-weekly stories of diverse Champions to raise public awareness of and support for clean energy in Vermont
- Leverage EAN networks to push out these stories
- Create Recognition Opportunities - Awards, Events, Speaking Opportunities
- Leverage Champions' networks to expand visibility - Newsletters, Awards



#4 Build a Centralized Campaign Website to Serve as Media Hub

Go-to place for media where links to clean energy facts and champion stories reside.



Moving Social Norms



2014 Our town needs to focus on roads, not renewables

2014 I'd like to make energy efficiency changes in my factory but it's too expensive.

2015 My neighbor is saving a lot of money by adding insulation to his attic. Maybe I should too.

2015 I heard that small wind turbines can help offset a farmer's energy needs.

2016 I've put energy upgrades into next year's budget. That's going to save 10% on our operating costs.

2017 We're planning to add renewable energy to our school next year to offset rising energy costs.

2017 It is so convenient to charge our new electric car at home rather than paying for expensive gas.

2017 I'm installing solar on our roof.

2018 Energy from biomass is making a big difference in our heating bill.

2018 We're saving a ton when we combine solar and energy efficiency in our business.

2018 I'm proud of the clean energy steps we've made in our community



Technology Innovation Work Group

as of 1/14

Erin Carroll, chair
VEIC

Laurie Burnham
Sandia National Laboratory

Karen Glitman
VEIC

John Hollar
City of Montpelier

Alison Hollingsworth
VEIC

Dan Jones
MEAC

Emily Levin
VEIC

Carrie McLaughlin

Jim Merriam
VEIC

Brian Otley
Green Mountain Power

Greg Rieder
IBM

Tim Shea
National Life

Anne Watson
Montpelier City Council

2013 Overview

To spearhead Vermont's goal of getting 90% of our energy from efficiency and clean, renewable sources by 2050, EAN is working with stakeholders to transform Montpelier into the nation's first "net zero" state capital, where all energy used for electricity, transportation and thermal is produced or offset by renewable sources. This transformation will grow our local economy, reduce waste, minimize pollution and increase energy security. The project is important as an immediate, practical opportunity to harness all four leverage points identified by EAN – capital mobilization, public engagement, regulatory reform, and technology innovation.

Highlight: Community Energy Dashboard

EAN's first step in this ambitious project is to develop a "community energy dashboard" which will enable energy consumers to understand their energy use and make clean energy choices and investments across all energy sectors. The dashboard will define current energy use for the community as a whole and provide metrics for individuals to track energy use and the impact of new investments. This energy "dashboard" will make energy use and choices visible and accessible across the community. The community energy dashboard will have broad application for communities throughout the state.

Action Priorities Identified at EAN's 2013 Annual Meeting

- **Community Energy Dashboard:** Create a Community Energy Dashboard for use in communities throughout Vermont and in the Net Zero Montpelier project.
- **Outreach & Engagement:** Craft a comprehensive outreach strategy across all interests and members of the community to engage Montpelier and surrounding towns in achieving the Net Zero goal.
- **Community Ownership Models:** Encourage community and local ownership of renewable and efficiency investments through development of tools, capacity and local ownership models.

Technology Innovation



The Vermont Home Energy Challenge provides incentives for homeowners to make efficiency improvements.



The District Heat Project will provide Montpelier's downtown corridor with access to renewable wood heat.

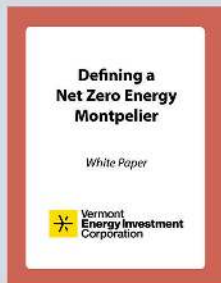


There are three electric vehicle parking spaces with access to free charging stations located in Montpelier.

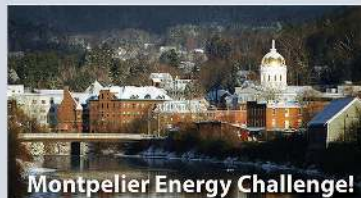
GOAL

To apply new technologies in Vermont to develop a reliable and diversified energy infrastructure that maximizes efficiency and local, renewable sources.

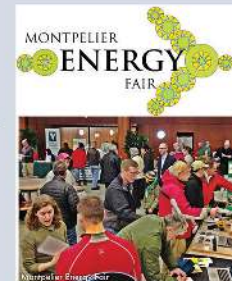
WORK



EAN commissioned this paper to clarify the goals, define boundaries, and characterize the current energy use in Montpelier.



EAN is building the partnerships needed to support this project by working with the Montpelier Energy Advisory Committee (MEAC), Montpelier Planning and Community Development Office, key business leaders and others.



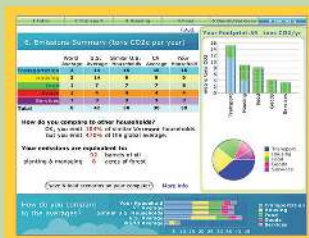
EAN and MEAC introduced the concept of the Montpelier Energy Challenge at the Montpelier Energy Fair in December 2012.

Montpelier Energy Challenge!

This ambitious project challenges Montpelier to become the nation's first state capital where the energy used in all three sectors - transportation, electric and thermal - is produced or offset by renewables.

NEXT STEPS

CALCULATE ➡ COMPARE ➡ CONNECT ➡ PARTICIPATE



This online Dashboard will engage Montpelier community members in learning about, supporting and taking action to help achieve a "Net Zero Montpelier."

Regulatory Reform



Governor Shumlin signed the Vermont Energy Act of 2011 which expanded and improved the net metering program in Vermont.



GOAL

To develop simpler, consistent regulatory policies and faster, more effective permitting procedures to support Vermont's investment in renewables and efficiency and streamline our transition to a clean energy economy.

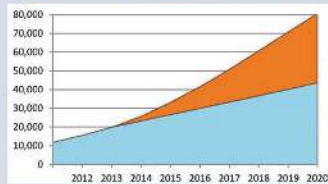


Governor Shumlin signed into law three new clean energy bills at the Clean Energy Finance Summit on June 17, 2013.

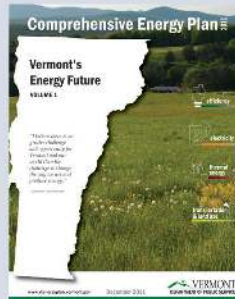
WORK

The Regulatory Reform work group supports the priorities of the other leverage point work groups by providing information and robust conversations.

THERMAL EFFICIENCY TASK FORCE

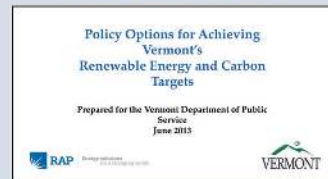


EAN's Capital Mobilization Guiding Document was used as a primary input to the "Thermal Efficiency Task Force" convened by the Public Service Department.



EAN's early work helped to inform the structure of Vermont's 2011 Comprehensive Energy Plan.

TOTAL ENERGY STUDY

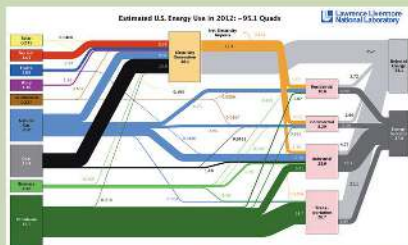


EAN is supporting efforts to develop a Total Energy Standard through providing information and robust policy conversations.

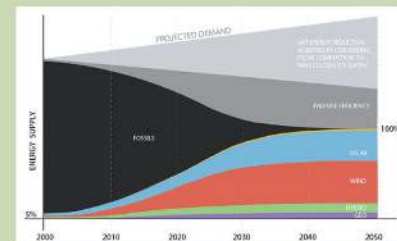
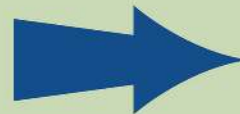
NEXT STEPS

Energy Scenario Modeling

EAN is working with the Public Service Department and the University of Vermont to develop a dynamic Energy Scenario Modeling tool that can be used to test the impacts of different energy scenarios that could help Vermont meet its goal of 90% renewables by 2050.



Knowing how our energy is used - and wasted - is needed to inform the strategies and policies that will expedite our transition to a clean energy economy.



New policies and regulatory approaches will be needed to achieve Vermont's goal of a renewable energy economy.

RR

Regulatory Reform Work Group

as of 1/14

Jim Merriam, co-chair
VEIC
Ron Shems, co-chair

Janet Besser
NECEC

Paul Burns
VPIRG

Joseph Cincotta
LineSync Architecture

Matt Cota
Vermont Fuel Dealers Assn.

Janet Doyle
IBM

Rebecca Ellis
House of Representatives

Asa Hopkins
Public Service Dept.

Karen Horn
VLCT

Julie Lineberger
LineSync Architecture

Linda McGinnis
Independent Policy Analyst

Johanna Miller
VNRC

Scudder Parker
VEIC

William Sayre
Associated Industries of VT

Leigh Seddon
L.W. Seddon Consulting

Gabrielle Stebbins
REV

Sam Swanson
Pace Law School

Benjamin Walsh
VPIRG

Richard Weston
Regulatory Asst. Project

2013 Overview

The goal of EAN's Regulatory Reform work group is to develop simpler, consistent, regulatory policies that support development of renewable energy sources (including efficiency) and faster, more effective permitting for new energy projects as an essential underpinning of transforming our energy system. EAN seeks to support the policy and regulatory work of its members by providing compelling information and supporting robust, constructive dialogue on key issues.

Highlight: Energy Scenario Modeling

To support implementation of the goal of 90% renewable by 2050, EAN is working in partnership with the state and the University of Vermont to provide a tool for assessing energy choices, options and costs. This effort will include a dynamic energy scenario modeling tool and a stakeholder engagement process to create a robust and broadly accepted model. This initiative is also consistent with a lead recommendation of the Vermont Energy Generation Siting Policy Commission to develop a "roadmap" for how Vermont can meet its goals under the Comprehensive Energy Plan and define specific energy scenarios toward a renewable energy future.

Action Priorities Identified at EAN's 2013 Annual Meeting

- **Act 250 Land Use:** Add locational and other energy efficiency considerations to Act 250 requirements, along with regional plans, local plans and zoning requirements.
- **Reform Criterion 9(F):** Include renewable energy and combined heat and power as a part of Act 250 review. Define the standards for each based on greenhouse gas emissions.
- **Current Use and Renewable Energy:** Determine whether lands in current use can be used for biomass production and for solar energy production.
- **Energy Code Violations:** Fund split incentive to prompt landlords to bring rental properties into compliance with thermal and other efficiency standards.
- **Variable Peak Pricing:** Develop a dynamic statewide pricing model to support energy efficiency and renewables.
- **REC Retirement:** Support resolution of issues around accurate accounting for Vermont's renewable energy attributes.
- **Total Energy Standard:** Support effective development of a Total Energy Standard through developing a shared understanding within EAN of key metrics, milestones, mechanisms and costs to realize the state's goal of 90% by 2050.

Pathways to Clean Energy

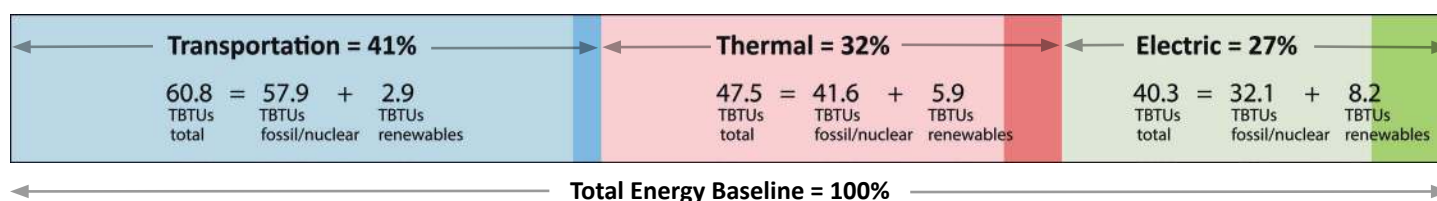
In 2011 the State of Vermont revised its Comprehensive Energy Plan (CEP) and established a bold goal: to meet 90% of Vermont's 2050 energy needs from renewable sources and increased efficiency. This goal includes energy used in all three sectors – *transportation, thermal and electric* – by residential, commercial and industrial users. While the CEP goal establishes the target for 2050, it does not define the path by which we will make that transition. EAN embraces that challenge.

90%^B_Y
2050

With support from the High Meadows Fund, EAN developed a series of decade milestones that illustrate a snapshot of where we might be in 2020, 2030, 2040, en route to 90% renewables in 2050. This analysis is not meant to be a “roadmap,” but rather to identify the known technology pathways, key policy drivers and most important questions for policy makers to consider. Following are some brief highlights from the report, **90% Renewable by 2050: Exploring Vermont's Efficiency and Renewable Energy Pathways**. To access the complete report please contact EAN.

Vermont's 2010 Total Energy Baseline

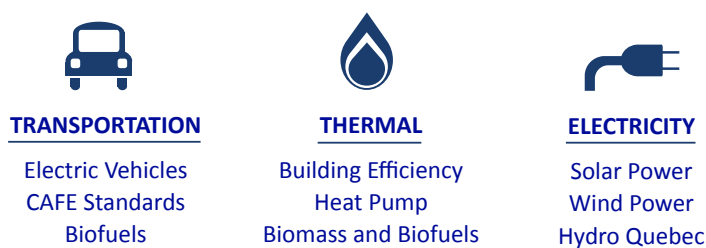
In 2010, Vermont used more than 148 trillion British Thermal Units (TBTUs) of energy across all sectors. The bar graph below shows the breakdown by sector and the relative amounts provided by renewables (bolder colors) vs fossil fuels and nuclear power (lighter colors).



SOURCE ENERGY: EAN's analysis measures source energy which includes all the energy inputs required to deliver the energy we consume in all three sectors. This includes the energy associated with extracting, processing and delivering the primary fuels. For electricity, source energy also includes the conversion inefficiencies at the power plant and the transmission and distribution losses.

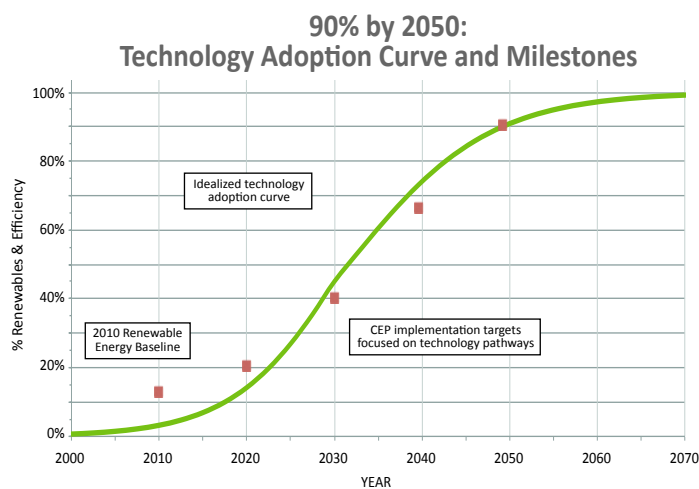
Key Pathways to Reach 90% by 2050

While efficiency is our most cost-effective pathway, to achieve the goals of the CEP we will need to invest in efficiency and new renewable energy resources simultaneously. The technology pathways identified at right have the greatest capacity to transform Vermont's energy economy.



Adoption Curve & Milestones

To further define what the adoption curve for 90% by 2050 might look like, EAN developed a series of decade milestones to provide a snapshot of where we might be in 2020, 2030, and 2040 (see graph on opposite page). As with many transitions, the adoption curve for renewables and efficiency will not likely be linear. The graph at right shows how the decade milestones approximate a sigmoid-curve, which is more typical of transitions of this nature.



Our First Milestone: 20% by 2020

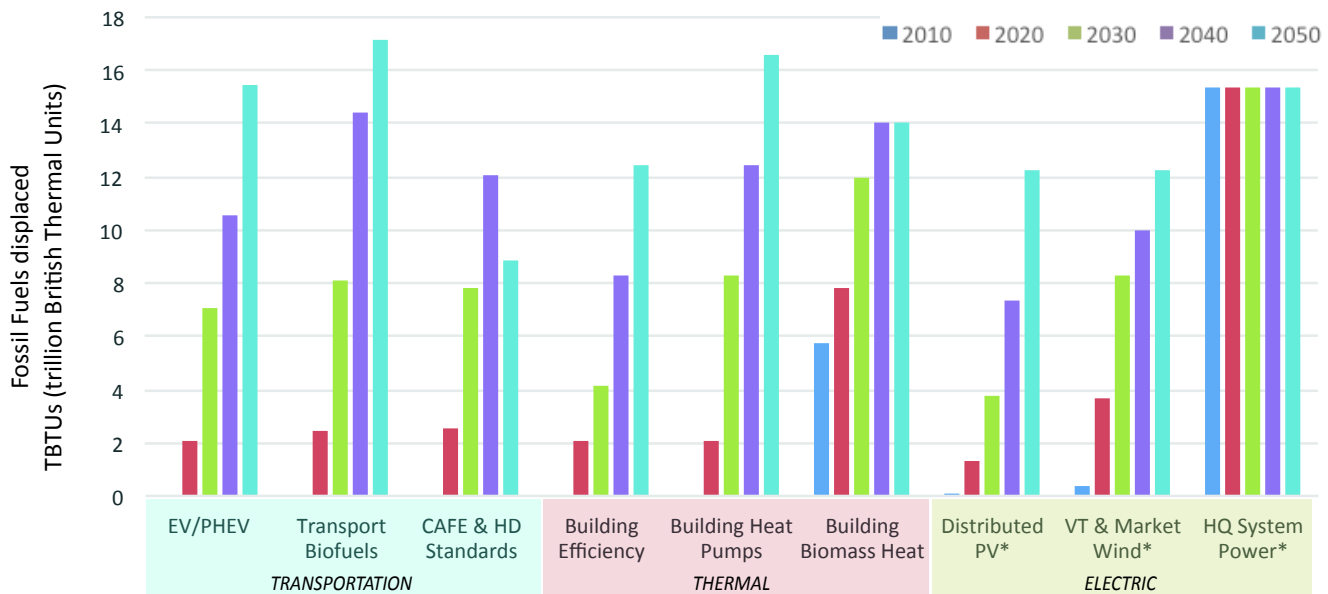
For the 2020 milestone, EAN set a target goal of 20% renewable across all sectors. To illustrate the actions that might allow Vermont to reach this goal, EAN has compiled a list of specific targets for each of the key technology pathways.

| TRANSPORTATION | | Target: | Requires: |
|-------------------|---|---|-----------|
| Electric Vehicles | Increase to 5% of light duty vehicle fleet | Add 28,000 EVs and PHEVs | |
| Biofuels | Increase by an additional 5% of liquid fuels for light duty vehicle fleet | An additional 15 M gallons biofuels annually | |
| Efficiency | Increase light duty vehicle fleet efficiency rating by 5% | Support of Corporate Average Fuel Efficiency (CAFE) standards & Heavy Duty Truck Fuel Efficiency standards by encouraging new efficient vehicle purchases | |

| THERMAL | | Target: | Requires: |
|-------------------------------------|--|---|-----------|
| Efficiency | Reduce building heat losses by 5% | Retrofit 50,000 buildings with 30% average energy savings | |
| Biomass | Increase by an additional 7% building sector heat load | Install 20,000 new pellet stoves or boilers | |
| Solar | Provide 2% building heat & hot water through solar thermal systems | Install 3,000 residential-scale (10 m2) solar hot water systems | |
| Biomass Combined Heat & Power (CHP) | Provide 50 MW thermal and 10 MW electric generation | Build 60 MW of highest efficiency CHP plants | |

| ELECTRIC | | Target: | Requires: |
|----------------|---|---|-----------|
| Hydro Electric | Build or refurbish 5 MW small-scale hydro capacity | Support Agency of Natural Resources streamline the permitting process | |
| Solar Energy | Build 100 MW new photovoltaic capacity (50 "Solar Farms") | Set enhanced goals for the Standard Offer Program | |
| Wind Power | Build 30 MW new in-state and 50 MW regional wind capacity | Reform siting guidelines and permitting process | |

Projected Impact of Key Pathways on Fossil Fuels Displacement



Key Technology Pathways

* set at 2.69x NG based on source energy data

Funding, Expenses & Financial Sustainability

In the past year of operation, EAN has maintained and strengthened ties with our existing funders and engaged several new supporters as well. Our next steps toward long-term financial stability will continue to focus on diversifying EAN’s business model to extend beyond foundation support.

The charts below show the broad components of EAN’s operating budget for Fiscal Year 2013. Overall, 81% of EAN’s budget supported direct program work across our four leverage points and development of the capacity of our network. Administrative costs continue to be small and highly leveraged in support of active, value-added programs.

FY 2013 Operating Budget

Chart 1: Total Expenses & Fund Balances

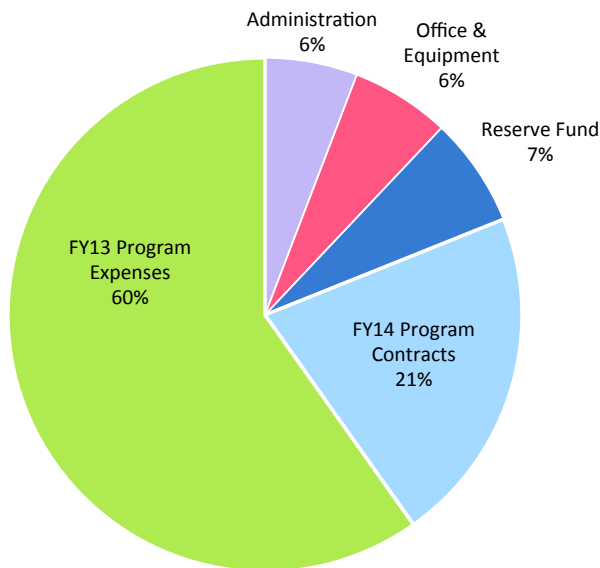
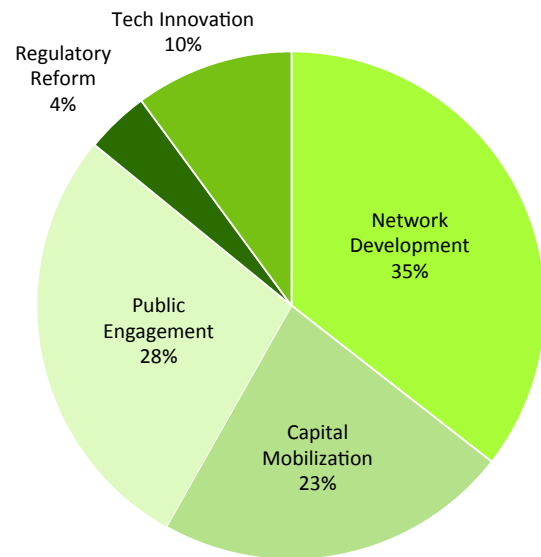


Chart 2: Program Expense Detail



Board of Directors



Robert Barton
Catalyst Financial Group
Founder & CEO



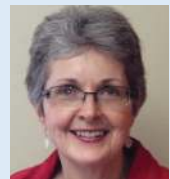
Melody Burkins
University of Vermont
Senior Director for Research
and Strategic Initiatives



Megan Camp
Shelburne Farms
Vice President
and Program Director



Erin Carrol
Vermont Energy
Investment Corporation
Director of Consultative Services



Janet Doyle
IBM, Senior Energy and
Environmental Engineer &
Gov’t Affairs Program Manager

FY 2013 Budget: July 1, 2012 - June 30, 2013

| REVENUES | Amount | % of Total |
|---------------------------------|------------------|-------------|
| Maverick Lloyd Foundation | \$150,000 | 36% |
| Green Mountain Coffee Roasters | \$100,000 | 24% |
| Canaday Family Charitable Trust | \$100,000 | 24% |
| John Merck Fund | \$50,000 | 12% |
| Sustainable Futures Fund | \$12,500 | 3% |
| High Meadows Fund | \$5,000 | 1% |
| TOTAL REVENUES | \$417,500 | 100% |

We thank our funders for their generous support!

| USE OF FUNDS | Amount | % of Total |
|--|------------------|-------------|
| Program Expenses | \$249,678 | 60% |
| FY 14 Program Contracts | \$88,799 | 21% |
| Reserve Fund | \$28,735 | 7% |
| Administration | \$24,282 | 6% |
| Office & Equipment | \$26,005 | 6% |
| TOTAL EXPENSES & FUND ALLOCATIONS | \$417,500 | 100% |



Karen Glitman
Vermont Energy
Investment Corporation
Director of Transportation Efficiency



Ellen Kahler
Vermont Sustainable
Jobs Fund
Executive Director



Tim Palmer
VerMentor
Principal
(Term ended December 2013)



Leigh Seddon
EAN Board Chair
L.W. Seddon Consulting
President



Ron Shems

Annual Meeting Highlights

October 1 - 2, 2013

More than 70 EAN members and invited guests attended EAN's 2013 Annual Meeting at Basin Harbor Club in Vergennes, Vermont to share connections, develop strategies and chart EAN's direction for the year ahead.



Soren Hermansen received the 2009 Gothenburg Award -- considered the Nobel Prize for the environment -- for his work to help Samsø transition to renewable energy.

Keynote Speaker: Soren Hermansen

EAN invited Soren Hermansen to be the keynote speaker for our 2013 Annual Meeting for a host of reasons: he is a master of community organizing, a resourceful problem-solver, and a passionate advocate for renewable energy. Hermansen shared the story of mobilizing 4,000+ residents of Samsø, Denmark to transform their island home into the world's largest climate-neutral society. Through Hermansen's tireless efforts to engage his community and develop creative financing strategies for energy projects, Samsø now generates 110% of the electricity its residents consume from clean, renewable sources.

Hermansen's work in rural, agricultural Denmark holds many lessons for Vermont and demonstrates that it is possible to create a society that is self-sufficient and based entirely on renewable energy sources. To learn more about Soren Hermansen and his work on Samsø, visit <http://energiakademiet.dk>

1st Annual Anne & Arthur Berndt Leadership Award: Jennifer Berman

In 2013, EAN created the Anne & Arthur Berndt Leadership Award to honor those who have demonstrated vision, leadership and commitment to creating a clean energy future for Vermont. It will be awarded on an annual basis to individuals or organizations that have shown bold leadership in support of efforts to advance broad, systemic change of Vermont's energy system towards one based on efficiency and renewable power.

The criteria for this award include the following:

- Extraordinary vision
- Bold, courageous leadership
- Support for change at a transformative, system-wide level
- Deep investment in relationships and network capacity for change
- Commitment to working across diverse perspectives towards a higher goal
- Time, commitment, and passion for the cause

The first annual Anne & Arthur Berndt Leadership Award was presented to Jennifer Berman, who played a key role in founding EAN while serving as Executive Director of the Maverick Lloyd Foundation. Jennifer's vision, passion and outstanding work continue to influence and shape everything EAN does.



Anne and Arthur Berndt present Jennifer Berman (center) with the 2013 Anne & Arthur Berndt Leadership Award.



Plenary Presentations

5-Year Clean Energy Communications Plan

The Annual Meeting provided an opportunity for EAN's Public Engagement work group to present its 5-year Clean Energy Communications Plan to our full membership. PE Chair Megan Camp described the collaborative process; consultants from SmartPower reviewed details of the plan. The plan is outlined in detail on pages 10-11.

Input to the Total Energy Study

The Vermont Public Service Department utilized EAN's Annual Meeting as an opportunity for our diverse membership to provide input for the Total Energy Study. Energy stakeholders were asked to prioritize policies and technology pathways to reduce greenhouse gas emissions in Vermont.

Strategic Priorities

EAN's Board Chair, Leigh Seddon, identified specific "decade milestones" that can help Vermont reach its Comprehensive Energy Plan goal of meeting 90% of our 2050 energy needs from renewables and efficiency. A detailed description of this work can be found on pages 16-17.

Input to Vermont's Economic Development Strategy

The State of Vermont's Agency of Commerce and Community Development invited EAN members to identify and prioritize economic development strategies for advancing the State's goal of transitioning to a clean energy system based on renewables and efficiency.

SAVE THE DATE
October 6 & 7

for EAN's 2014 Annual Meeting at Basin Harbor Club

Please check our website for more information and updates: www.eanvt.org

• Action Circles • Associated Industries of Vermont • Bourne's Energy • Brattleboro Energy Committee • Burlington Electric Department •
City Action Council • Chittenden County Regional Planning Commission • City of
Vermont • Energy Futures Group • Fresh Tracks Capital • Gardener's Supply •



ENERGY ACTION NETWORK

• Google • Green Lantern Capital • Green Mountain Coffee Roasters • Green Mountain Power • High Meadows Fund • Hickock Boardman
Insurance • IBM • Institute for Sustainable Communities • Jeff Wolfe Consulting • L.W. Seddon Consulting • Lake Champlain Regional
Chamber of Commerce • LineSync Architecture • Maverick Lloyd Foundation • Montpelier Energy Advisory Committee • National Bank of
Middlebury • National Life Group • NeighborWorks of Western Vermont • New England Clean Energy Council • Pace Law School Energy and
Climate Center • Pomerleau Real Estate • Regulatory Assistance Project • Renewable Energy Vermont • Sandia National Laboratory •
• Shelburne Farms • SunCommon • Sustainable Energy Resource Group • UVM Gund Institute • VEDA • Vermont Energy Investment
Corporation • Veris Wealth Partners • Vermont Businesses for Social Responsibility • Vermont Council on Rural Development • Vermont Fuel
Dealers Association • Vermont League of Cities and Towns • Vermont Natural Resources Council • Vermontivate • Vital Communities •

*Non-profit, business, and government
leaders working together to transform*

Vermont's energy economy.

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• Brattleboro Energy Committee • Burlington Electric Department • Catalyst Financial Group • Central Vermont Community Action Council •
Chittenden County Regional Planning Commission • City of Montpelier • Community-Resilience.org • Efficiency Vermont • Energy Futures
Group • Fresh Tracks Capital • Gardener's Supply • Google • Green Lantern Capital • Green Mountain Coffee Roasters • Green Mountain
Power • High Meadows Fund • Hickock Boardman Insurance • IBM • Institute for Sustainable Communities • Jeff Wolfe Consulting •
• L.W. Seddon Consulting • Lake Champlain Regional Chamber of Commerce • LineSync Architecture • Maverick Lloyd Foundation •
• Montpelier Energy Advisory Committee • National Bank of Middlebury • National Life Group • NeighborWorks of Western Vermont • New
England Clean Energy Council • Pace Law School Energy and Climate Center • Pomerleau Real Estate • Regulatory Assistance Project •
• Renewable Energy Vermont • Sandia National Laboratory • Shelburne Farms • SunCommon • Sustainable Energy Resource Group •