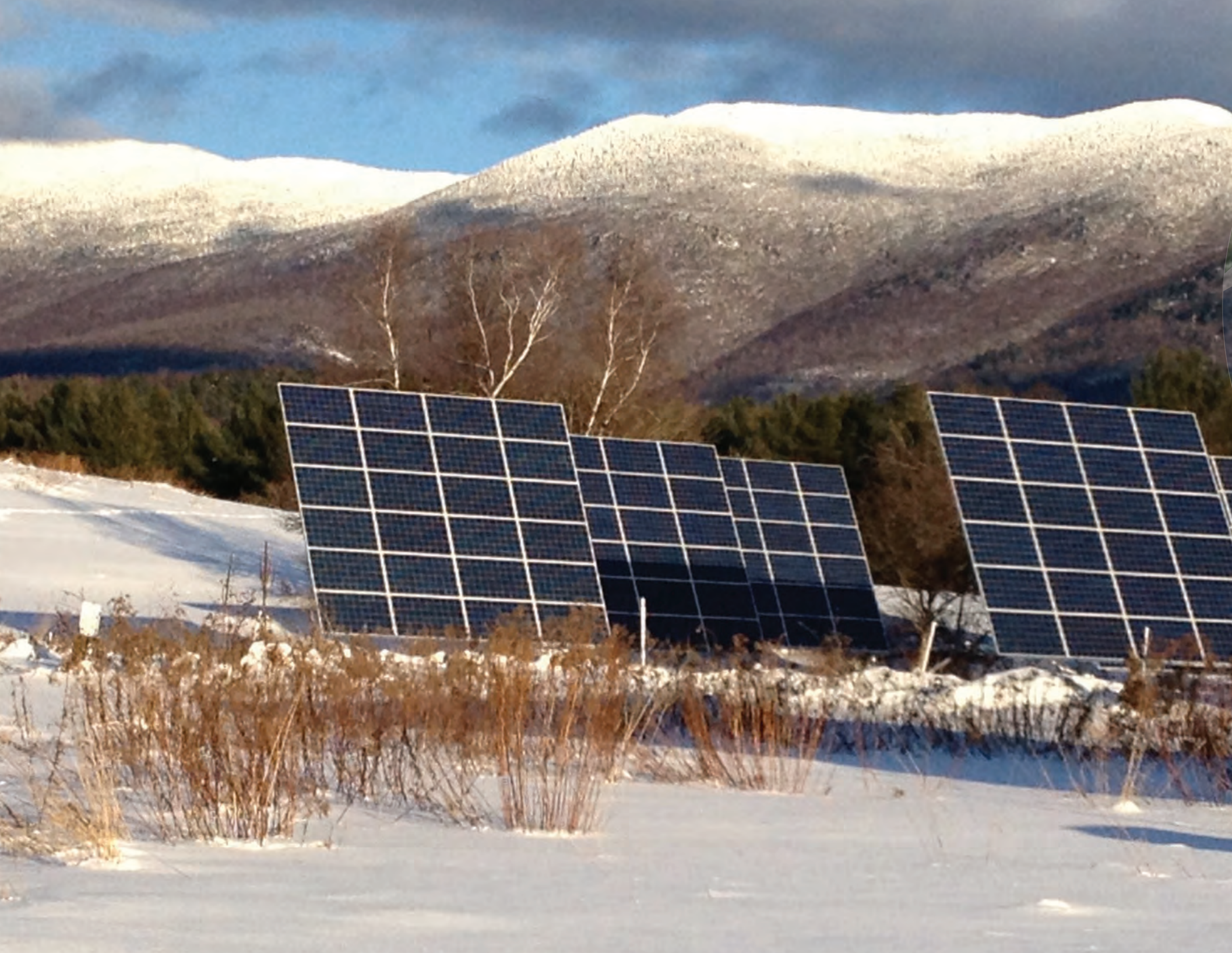
Energy Action Network

Annual Report 2012



ENERGY ACTION NETWORK

Energy Action Network is in the process of applying to the IRS for status as a 501 (c) 3.
Special thanks to the Vermont Sustainable Jobs Fund for serving as our fiscal agent in 2012.

Printed on FSC paper made with 100% post-consumer recycled content. Published February 2013.

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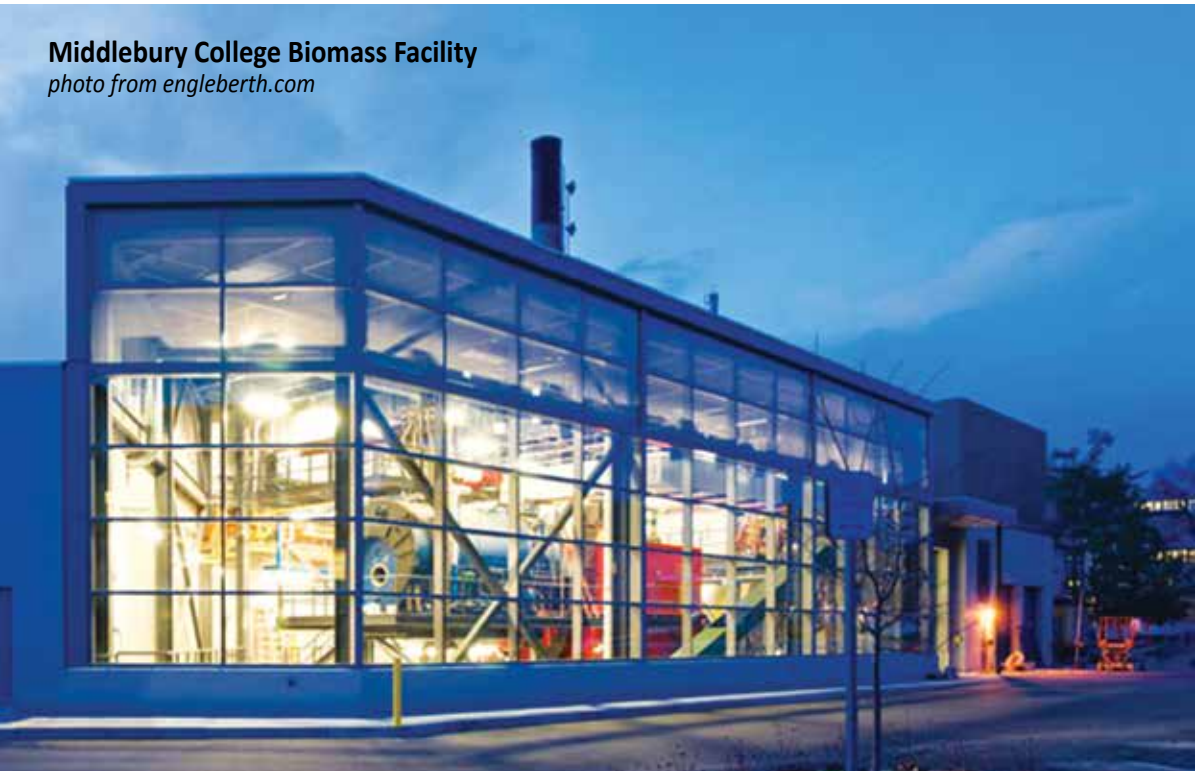
Facing page: Solar trackers behind Cold Hollow Cider Mill in Waterbury Center, Vermont. Photo by Andrea Colnes.

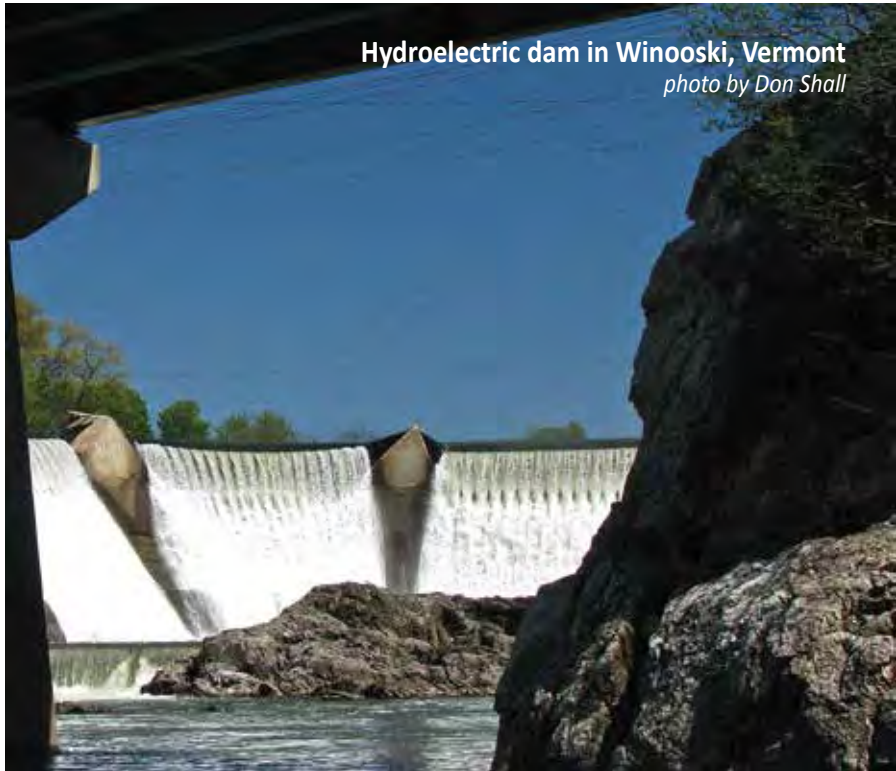
This trailer is part of a state-wide energy efficiency effort to train contractors, educate homeowners and weatherize 80,000 Vermont homes by 2020.
photo from Central Vermont Community Action Council

Electric car at a solar-powerd charging station.

Vermont's energy future depends on all sectors — transportation, thermal and electric — becoming more efficient and powered by renewables.



Middlebury College Biomass Facility
photo from engleberth.com



Hydroelectric dam in Winooski, Vermont
photo by Don Shall

A Letter
from EAN's Executive Director & Board Chair

Energy Action Network (EAN) is a new non-profit organization located in Montpelier, Vermont focused on transforming Vermont's energy system to address broad environmental, economic and energy security issues. Through an innovative partnership with business, government and non-profit leaders, EAN is launching a network approach to creating enduring, large-scale change that can serve as a model to other states and regions across the U.S. Our 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.

Over the past year, EAN has moved from its initial planning work into implementation and action. The founding members of EAN recognized that changing large, complex social systems requires an organization of organizations – or a network approach – to build upon the impact of individual efforts and weave these into systemic change. EAN makes this collaboration possible by providing a structure through which private, non-profit and public entities can work together to achieve both their individual organizational objectives and transformation of the larger energy system.

As we issue this report on EAN's first year of implementation work, Vermont is fortunate to have the active leadership of the Shumlin Administration focused on the goal of moving Vermont towards an efficient, renewable energy economy. However, despite broad public support for this goal, progress has been slow, stymied by limited capital and funding, slow adoption of new technology, and disagreement about siting and permitting of energy projects. These obstacles must be addressed effectively and quickly. Lessons from the past tell us that this will require an unprecedented level of public engagement, collaboration and coordination around our shared goals.

We invite you to read this summary of our emerging work and join us in working to realize a secure and sustainable energy future for Vermont.

Andrea L. Colnes
Executive Director

Leigh Seddon
Board Chair

Andrea Colnes
Executive Director

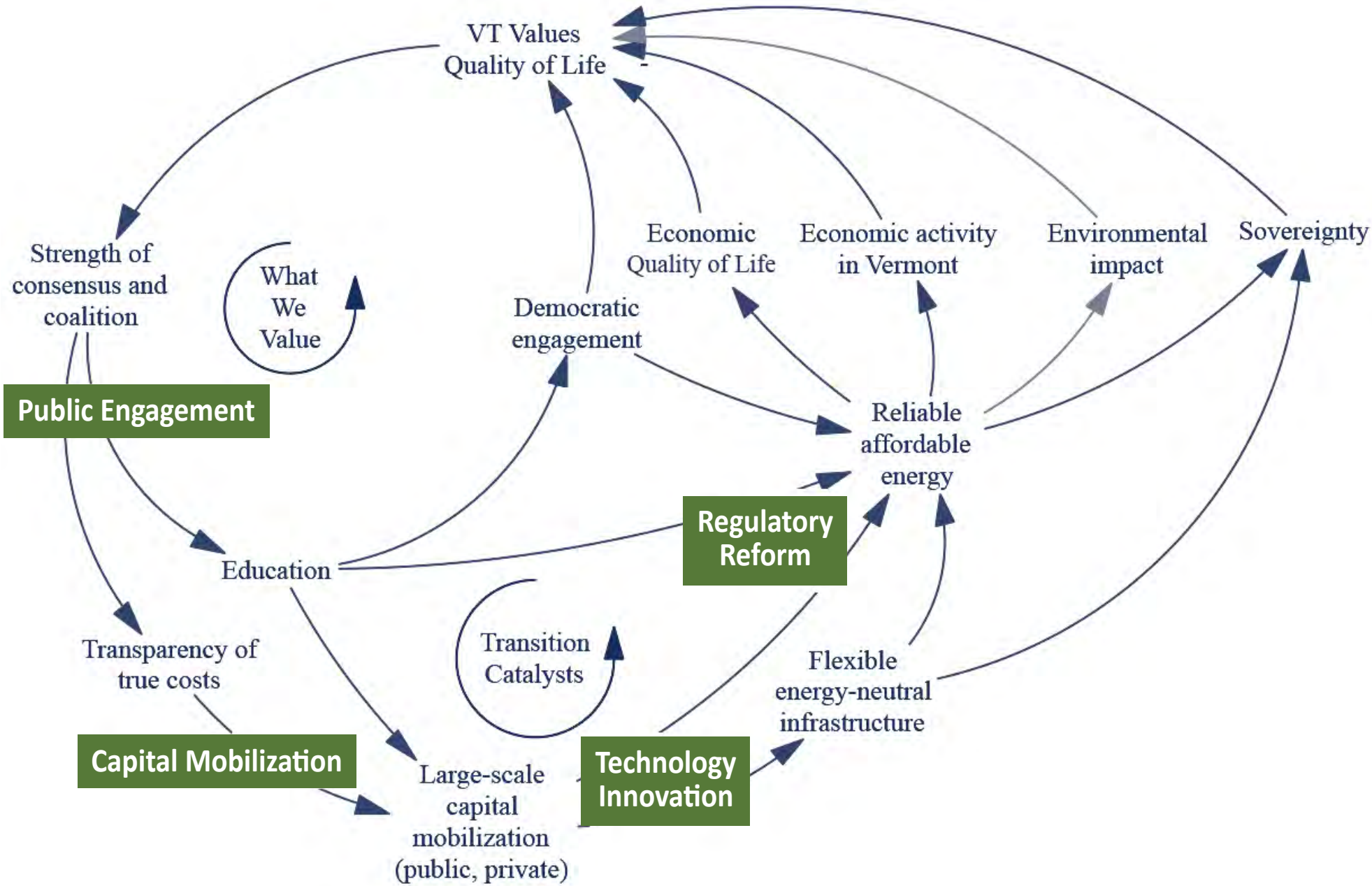
Andrea Colnes was formerly policy director with the Biomass Energy Resource Center and worked on Vermont's first Comprehensive Energy Plan under Governor Madeleine Kunin. She also served as founding executive director of the Northern Forest Alliance, policy director of the Northern Forest Center, and deputy director of the Vermont Natural Resources Council.

Leigh Seddon
Board Chair

Leigh Seddon is the founder of Solar Works, Inc., which became Alteris Renewables in 2008 and merged with Real Goods Solar in 2011. Over his career, he has served as an energy consultant to electric utilities, the U.S. Department of Energy, the U.S. Agency for International Development, and the World Bank.

EAN System Mapping

4 Leverage Points



About Energy Action Network

History

In 2009, a diverse group of high-level stakeholders in Vermont came together to think about how to advance the State's transition to a sustainable energy future. The group has been working over the past three years to reach a comprehensive understanding of Vermont's energy system and to develop focused and coordinated strategies to move the state toward greater use of renewable energy and energy efficiency. The result of this work is an innovative partnership of business, government and non-profit leaders—a powerful multi-stakeholder network that provides a forum for diverse organizations to align goals, develop collaborative strategies, implement broad scale initiatives, and facilitate collective learning. Our 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.

Our goals will require more than the capacity of individual organizations. Changing large, complex social 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 entities can work together to achieve both their individual organizational objectives and transformation of the larger energy system.

Mission

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

Goal

Energy Action Network participants are working toward a common goal: to ensure that 80% of Vermont's 2030 energy needs come from renewable energy and increased efficiency.

80% BY 2030

Our 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.

About EAN's Goal

EAN's goal is to meet 80% of Vermont's energy needs from renewable energy and increased efficiency by the year 2030. This goal is consistent with the State's goal of providing 90% of Vermont's 2050 energy needs from renewable sources.

Is 80% by 2030 even possible?

YES! Although ambitious, we can achieve this goal with existing knowledge and available technology.

What types of changes would need to happen?

This goal targets all energy sectors: **thermal, electric, and transportation.** We need to do as much as we can do as quickly as possible. Some priority changes include:

- Weatherizing buildings and implementing aggressive efficiency strategies;
- Getting more of our energy from renewable sources including solar, hydro, biomass, wind, biofuels and more;
- Increasing the average "miles per gallon" rating for our vehicle fleet and decreasing the average "annual miles traveled" per vehicle;
- Transitioning from gasoline-powered to electric-powered vehicles;
- Developing transportation systems that rely less on single occupancy vehicles.

Board of Directors

Leigh Seddon, Board Chair
Principal,
L.W. Seddon Consulting, LLC

Karen Glitman, Treasurer
Director Transportation Energy Efficiency,
Vermont Energy Investment Corp.

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

Ellen Kahler
Executive Director,
Vermont Sustainable Jobs Fund

Janet Doyle
Site Operations and Government Programs,
IBM Vermont

Tim Palmer
VerMentor,
former Vermont legislator

Staff

Andrea Colnes
Executive Director
acolnes@eanvt.org / 802-595-2622

Wendy McArdle
Program Director
wmcardle@eanvt.org / 802-595-1730

2012 Overview

Network Development

The past year has been highly productive as EAN has developed into a dynamic and effective network. Following on the early period of EAN's formation (2009-2011), which engaged high-level stakeholders in an in-depth systems mapping and strategic planning process, the past year has shifted the focus to implementation and action. In addition to initiating on-the-ground programmatic activities, this shift has required an evolution of EAN's partners and participants from founding CEOs to programmatic leaders. As a result, EAN has seen important growth in participants and partners, expanding our overall capacity to make change. To use EAN's terminology, we are expanding to the next tier of "concentric circles" across Vermont's energy community.

Specific highlights of EAN's network development over the past year include:

Structure

Operating Structure: At the March 26, 2012 meeting, EAN members formally adopted EAN's operating structure by broad consensus.

Board: EAN established a founding board of directors in March 2012. The board meets quarterly and four strategic meetings were convened with almost 100% participation in March, June, September and December 2012. Current board members are listed on the inside cover.

Staff: EAN has established a core staff, hiring a full-time Executive Director (Andrea Colnes) in March 2012 and a full-time Program Director (Wendy McArdle) in October 2012. Staff work out of the EAN office located in Montpelier.

Connections

State Partnerships

EAN has established a strong partnership with the State including:

- a highly productive working relationship with the Department of Public Service;
- an emerging partnership on Capital Mobilization work with Agency of Commerce and Community Development Secretary Lawrence Miller and State Treasurer Beth Pearce;
- on-going engagement by Secretary of Agriculture Chuck Ross;
- a growing connection with Agency of Natural Resources Secretary Deb Markowitz.

Network Connectivity

- EAN participated in the process of developing the Vermont Comprehensive Energy Plan;
- Commissioner Miller appointed EAN to serve on Thermal Efficiency Task Force and as a member of the Finance Subcommittee;
- EAN's Finance and Funding Subcommittee is partnering with the State and Senator Sanders office to develop a Renewable Energy/Energy Efficiency Finance Summit in 2013;
- EAN's Executive Director has been appointed to serve on the Governor's Council on Energy and the Environment.

Network-to-Network Connections

- *Renewable Energy Vermont (REV):* EAN presented two workshops on our 2030 energy scenario and our capital mobilization work at REV's 2012 Fall conference;
- *Vermont Businesses for Social Responsibility (VBSR):* EAN presentated at VBSR 2012 Fall Conference;
- *Vermont Energy and Climate Action Network (VECAN):* EAN is in active coordination with VECAN regarding outreach in support of the 2012 Vermont Comprehensive Energy Plan; and EAN presentated its 2030 scenario at VECAN's 2012 Fall conference;
- *Drive Electric Vermont!:* EAN is supporting cross fertilization of programs and collaboration;
- *Regional Energy Networks:* EAN has explored collaboration with sister energy networks including the Global Warming Solutions Project of Massachusetts and the New Hampshire Climate Collaborative.

Communications

Website

Staff is currently developing a website for EAN. The site will provide information about our organization and support member needs and services including access to relevant reports and studies and a calendar for meeting information and other events. The site will also include a members only platform to facilitate communication and encourage collaboration.

Newsletter

EAN is developing a quarterly email newsletter to communicate with participants and connect them to the new website.

Meetings

EAN convened Network gatherings in March and October 2012. These meetings supported the formal launch of EAN from its planning phase into implementation and the development of programmatic priorities. In addition, EAN's Leverage Point Work Groups have engaged and met throughout the year.

Network Development

78%

increase in individual participation

89%

growth in meeting attendance

Next Steps for 2013

EAN will work to define specific strategic implementation plans for each of the leverage point work groups:

- **Capital Mobilization**
- **Public Engagement**
- **Technology Innovation**
- **Regulatory Reform**

Capital Mobilization Work Group

Bob Barton – co-chair
Catalyst Financial

Marianne Tyrrell – co-chair
Catalyst Financial

Peter Adamczyk
VEIC - Vermont Energy Investment Corp.

Lee Boyeau
Fresh Tracks Capital

Hal Cohen
Central Vermont Community Action Group

Ed Delhagen
State of VT Public Service Department

Bob Griffin
Green Mountian Power

Ralph Meima
Brattleboro Energy Committee

Lawrence Miller
Agency of Commerce and Community Dev.

Beth Pearce
VT State Treasurer

Andrew Perchlik
State of VT Clean Energy Development Fund

Kenneth Perine
National Bank of Middlebury

Ernie Pomerleau
Pomerleau Real Estate

Will Raap
Gardener's Supply

Janice St. Onge
Vermont Sustainable Jobs Fund

Liz Schlagel
Institute for Sustainable Communities

Gaye Symington
High Meadows Fund

Jeff Wolfe
Jeff Wolfe Consulting

4 Leverage Point Work Groups

Through EAN's early systems mapping process, it became evident that although this group held diverse opinions and priorities, there was core agreement on a broad goal and the key leverage points needed for transformation to occur. It is through coordinated, strategic projects in these four "leverage point areas" that EAN's members seek to catalyze transformation of Vermont's energy system to one based on efficiency and renewables by 2030. The four leverage points form the backbone of EAN's structure and include: Capital Mobilization, Technology Innovation, Public Engagement and Regulatory Reform.

Capital Mobilization

The goal of this leverage point area is to mobilize capital on a large scale to fund necessary investments in energy efficiency and renewables across all energy sectors. EAN's work will support public and private partnership and innovative finance models that will create a stable long-term investment environment, competitive returns, and minimize risk and uncertainty for investors.

Projects Completed

"Mobilizing Capital to Transform Vermont's Energy/Economy"

This paper has been developed to serve as a guiding document for EAN's capital mobilization work. Based on a scope of work developed by the work group, Catalyst Financial was engaged to research and develop this document. The final report is concise, specific and comprehensive and is in active use by the state's "Thermal Efficiency Task Force." It is also providing the foundation for EAN's ongoing capital mobilization work and will be a core input to a second state energy finance summit planned for June 2013.

2030 Energy Scenario

A detailed and comprehensive energy scenario defining what is needed to achieve EAN's 80% by 2030 goal has been developed by Leigh Seddon, EAN's Chair, in collaboration with VEIC, GMP, BERC, VPIRG and with input from REV and several other EAN participants and partners. This scenario defines what energy mix is needed to realize EAN's 80% by 2030 goal for each energy sector (e.g. electric, transportation, thermal) and for each fuel source (renewables and non-renewables). This work was used to develop specific cost estimates by energy sector for EAN's Capital Mobilization document. Highlights of this scenario are described in the sidebar on page 11.

Public Outreach

The Capital Mobilization document was presented at the 2012 Renewable Energy Vermont conference in early October and was well received as a significant contribution to critical energy finance work. The 2030 Energy Scenario was presented at the 2012 VECAN fall conference, another major state venue focused on energy transformation.

Active Projects

Input to State's "Thermal Efficiency Task Force"

EAN's Capital Mobilization work has been used as a primary input to the legislatively mandated "Thermal Efficiency Task Force" convened by the Department of Public Service in connection with implementation of the Vermont Comprehensive Energy Plan. EAN's inputs have been central to developing the recommendations of the Finance and Funding subcommittee and the Task Force has draw heavily from EAN's Capital Mobilization guiding document. The Public Service Department delivered the Task Force's recommendations to the legislature in January 2013.

Energy Finance Summit

EAN initiated discussions with Commissioner Liz Miller of the Vermont Department of Public Service and Secretary Lawrence Miller of the Agency of Commerce and Community Development, to convene a second state energy finance summit based in large part on EAN's Capital Mobilization document. A plan is now in place to convene a summit sponsored jointly by EAN, the Shumlin Administration and Senator Sanders office in the spring of 2013. The goal of this gathering is to identify specific, actionable recommendations and supporting strategies for mobilizing energy capital in Vermont.

Development of specific energy finance priorities and action strategies

EAN's Capital Mobilization work group is in the process of using the Guiding Document to identify specific energy finance recommendations and strategies to advance those recommendations.

2030 Energy Scenario Narrative Report: EAN is working with Leigh Seddon and other partners to provide a written overview of our 2030 energy scenario to make this work accessible to decision makers, the legislature, and energy stakeholders. We anticipate completion in spring 2013.

Impacts & Outcomes

Overall, EAN's Capital Mobilization work to date has provided strong, substantive input to key players in the state on energy funding and finance needs and options. Through this work, EAN has:

- Provided core information to the Thermal Efficiency Task Force and helped underpin this phase of the state's energy finance work;
- Through EAN's 2030 energy scenario, offered the first look at specific costs and energy finance needs for transforming the state's energy system to one based on efficiency and renewables across all energy sectors;
- Led the way on developing specific, actionable energy finance and funding recommendations;
- Launched and set in motion the idea for convening a high-level state energy finance summit/working session to develop broadly-supported recommendations and supporting strategies for moving them to action.

Next Steps

- Identify specific energy finance recommendations;
- Convene state energy finance summit with the Shumlin Administration and Senator Sanders office;
- Develop an overall strategic plan for mobilizing energy capital.

2030 Energy Scenario highlights

How to get to 80% by 2030?

MORE...

300% more renewables

12% increase in electrical generation

70% of vehicles are plug-in hybrids or plug-in electric

25% increase in vehicle efficiency

70% biofuels in our liquid fuel mix

32% more geothermal to heat and cool buildings

LESS...

36% reduction in overall energy use

33% less energy used in buildings

17% less energy for heating

63% less energy for transportation

25% decrease in vehicle miles/year

NOTE: *Details about the numbers above will be available in the published version of the 2030 Energy Scenario, available in the spring of 2013 on the EAN website: www.eanvt.org*

Public Engagement Work Group

Paul Comey - chair
Green Mountain Coffee Roasters

Melody Burkins
University of Vermont

Paul Burns
Vermont Public Interest Research Group

Megan Camp
Shelburne Farms

Matt Cota
Vermont Fuel Dealers Association

Robert Dostis
Green Mountain Power

Kevin Ellis
Kimball, Sherman and Ellis

Dianne Hanlon Druyff
Kelliher Samets Volk

Anne Margolis
State of VT Public Service Department

Paul Markowitz
VEIC - Vermont Energy Investment Corp.

Johanna Miller
Vermont Natural Resources Council

Regina Farrell
VEIC - Vermont Energy Investment Corp.

Liz Schlegel
Institute for Sustainable Communities

Megan Shannon
Vital Communities

Mary Sullivan
Burlington Electric Department

George Twigg
VEIC - Vermont Energy Investment Corp.

Ben Walsh
Vermont Public Interest Research Group

Eric Zency
UVM Gund Institute

Public Engagement

We recognize that in order to reach our goal of 80% by 2030, we need to engage and educate the public through consumer campaigns that make true energy costs and economic and environmental choices transparent. The goal for this leverage point is to provide clear, concise information and messages about energy use for a variety of audiences – citizens, venture capitalists, policy makers, homeowners, renters, businesses, state and local government, nonprofits, and students. These messages will be used by EAN partners in strategic collaboration to change behavior and transform Vermont's energy-use culture.

Projects Completed

Message & Framing Analysis

EAN has retained Lynn Davey of Davey Strategies to evaluate the existing frames and messages being used by energy stakeholders in Vermont and develop more effective communications materials for public outreach on energy issues. This phase of EAN's communications work will be completed in early 2013. Completed elements include:

-- ***Framing Audit:*** An analysis of frames and messages currently in use in Vermont among EAN partners and other relevant organizations. The framing analysis focuses on what is being said in founding organizational documents (mission/vision, logo/tag, etc.), web content, brochures, op-eds, legislative testimony, and press releases. It considers how the content is deployed, where, and with what messengers. A brief report has been produced that articulates the framing successes, challenges and opportunities for energy communications in Vermont. This analysis is in use by EAN members as a tool for developing a "master frame" and more effective energy communications across the suite of complex issues and perspectives in the field.

-- ***Framing Workshop:*** Lynn Davey of Davey Strategies offered a full-day framing and message development workshop for EAN members and partners on December 12, 2012. The workshop focused on:

- Reviewing the frames on renewable energy and efficiency currently in use internationally, nationally and locally;
- Sharing insights from public opinion research on these issues;
- Helping EAN participants to understand the challenges of framing for improved public understanding and support;
- Working to develop a draft Master Frame template for energy efficiency and renewables.

This cartooon, by Joel Pett, appeared in USA Today just before the 2009 climate change conference in Copenhagen.

Active Projects

Development of Essential Framing Tools: Master Frame and Talking Points

During the third phase of EAN's work with Davey Strategies, we will produce a template for a master frame that can be used by EAN participants to explain the importance of renewable energy and energy efficiency initiatives. A set of talking points will also be produced that show how to implement the master frame to particular areas of policy or program focus within the network. These two pieces will support a more coordinated message across the network.

Project Support

EAN is working with VEIC to support public message and communications work on their soon-to-be launched Home Energy Challenge, a community based energy efficiency initiative. This project can serve as a testing ground for new messages as well as an opportunity to develop and test community engagement strategies for energy action and investment by homeowners. EAN is also providing message support to partners involved in advancing the work of the Thermal Efficiency Task Force and other renewable energy initiatives.

Impacts & Outcomes

The overall outcome of this phase of work will be a capacity to use more effective energy stories, rooted in core values that connect a clear and understandable problem with related tangible solutions. While this information will not create a simple packaged one-size-fits-all approach, it will provide EAN's diverse membership with stronger, more coherent tools to tell a connected and overarching energy "story" to help motivate Vermonters to support action at the personal and public levels.

Next Steps

Communications Strategy Development

The next step towards developing a more effective public communications capacity on energy issues will be a strategic communications campaign that will build broad public support for Vermont's energy transition and transform Vermont's end-use energy culture. This work will be done in collaboration with EAN participants and other interested partners.

Framing 101 & beyond

Highlights from EAN's Framing Workshop with Lynn Davey on December 12, 2012

fram • ing [frey-ming] *noun*

1. the act, process, or manner of constructing anything;
2. how communication is packaged

The Public Engagement work group began work to develop a "master frame" to provide a clear, consistent and compelling way to unify the diverse and sometimes overwhelming messages that Vermonters are receiving about energy, efficiency and climate change. Specifically, the group explored how to:

1. Relate - explain why people should care by connecting to a collective value.

2. Translate - tell a story that uses commonly understood language to identify the problem, the consequence of inaction, and how to correct it.

3. Motivate - clearly identify who is responsible for the solutions

By the end of the workshop the Public Engagement work group had coalesced around a clear problem statement:

"Our society has an economic and cultural dependence on using dirty energy sources in ways that are inefficient, wasteful and harmful to our planet and our economy."

Technology Innovation Work Group

Carrie McLaughlin - chair
Montpelier Energy Advisory Committee

Laurie Burnham
Sandia National Laboratory

Matt Cota
Vermont Fuel Dealers Association

Janet Doyle
IBM

Matt Dunne
Google

Karen Glitman
VEIC - Vermont Energy Investment Corp.

Gwen Hallsmith
City of Montpelier

Emily Levin
VEIC - Vermont Energy Investment Corp.

Anne Margolis
State of VT Public Service Department

Jim Merriam
VEIC - Vermont Energy Investment Corp.

Brian Otley
Green Mountain Power

Greg Rieder
IBM

Tim Shea
National Life Group

Technology Innovation

To develop a reliable and diversified energy infrastructure powered by renewable fuels and deep investments in energy efficiency, we will need new technologies applied in new configurations across the landscape. To spearhead this effort, EAN is working with an initial group of interested stakeholders in Montpelier to explore the concept of creating the nation's first state capital where all energy used for electricity, transportation and heat is produced or offset by renewable energy sources. This project is a practical opportunity to harness all four leverage points identified by EAN–capital mobilization, public engagement, regulatory reform, and technology innovation. Work to date has focused on gathering initial stakeholders, defining the project, determining boundaries and project scope and laying out a broad strategic framework for moving the concept forward.

EAN recognizes that development of this idea depends on the interest and engagement of Montpelier residents, city government, local businesses and state government – which must happen before any initial concepts are taken forward.

Projects Completed

EAN's Technology Innovation work group has refined and expanded our initial concept of creating an independent electric microgrid in Montpelier into a broader vision focused on developing Montpelier as pilot project to demonstrate a net zero energy district (NZED). A net zero energy district is one where all energy consumed is produced or offset through renewable sources. Initial outreach has expanded EAN's work group of core partners to include the Montpelier Energy Advisory Committee, Green Mountain Power, VEIC, National Life, Sandia National Laboratory, IBM and Vermont Fuel Dealers. We have also had initial conversations about this idea with the City of Montpelier's Planning Office. Extensive public outreach to explore the potential of this project is planned upon completion of the pre-feasibility scoping document.

Active Projects

Pre-feasibility White Paper

To lay the groundwork for outreach to Montpelier residents and stakeholders, EAN first needed to define our ideas and flesh out basic concepts. To this end, EAN engaged an interdisciplinary team at VEIC to assist the Technology Innovation work group to define the concept of a Montpelier Net Zero Energy District (NZED). This white paper (completed in January 2013) will be used to define both the NZED and the value that this concept would bring, not only to Montpelier, but to Vermont in general and a model that could be used nationally. The NZED will look at three sectors– electric, transportation and thermal – which have to be considered individually as well as collectively.

Impacts & Outcomes

Through this early phase work, EAN has expanded the scope of this pilot project from an electric microgrid to a net zero energy district – a bolder and more comprehensive vision. Within this vision, EAN's Technology Innovation work group has defined the goals of the project; geographic boundaries for each energy sector (electric, thermal, transportation); developed rough time lines and next steps for moving forward in each energy sector; and articulated the benefits of a NZED as a model for Vermont and beyond.

Next Steps

Outreach & Engagement

The next (and crucial) step will be to reach out to residents, businesses, City Government, State Government and relevant agencies, to explain the project and engage them as key drivers in moving it forward. This will require an intensive and strategic outreach effort over years to come.

Project Concept Development

Taking the project from its broad conceptual beginnings to a clearly defined array of elements across all energy sectors will require extensive planning, engineering inputs, feasibility studies, cost estimates, time lines, etc.

Funding

Funding will be needed for project design and planning, feasibility work, engineering, extensive public outreach. Ultimately, public and private funding and financing will be needed for investments in infrastructure, construction, etc.

EAN has begun working with the Montpelier Energy Advisory Committee, Green Mountain Power, VEIC, National Life, Sandia National Laboratory, IBM and Vermont Fuel Dealers to explore the concept of creating a renewable energy community. Photo from newenglandmagazine.com.

Technology Innovation Project

Vision: To create Vermont's first renewable energy community.

What does that mean?

The electric, thermal and transportation energy needs within the community are met or offset by renewable energy sources. This is the net zero concept.

How could this happen?

Through a mix of efficiency, conservation, and cutting edge technology, including:

ELECTRIC

- Add large- and small-scale renewable power supply generators;
- Install advanced meters and smart grid technology.

THERMAL

- Expand biomass heating to replace oil and other fossil fuels used to heat homes and businesses;
- Employ geothermal and other renewable heating strategies.

TRANSPORTATION

- Transition to electric vehicles;
- Increase public transportation, carpooling and other alternatives to single occupancy vehicles;
- Expand production and use of biofuels.

Regulatory Reform Work Group

Ron Shems - co-chair
State of VT Natural Resources Board

Jim Merriam - co-chair
VEIC - Vermont Energy Investment Corp.

Margaret Cheney
VT House of Representatives

Karen Horn
Vermont League of Cities and Towns

Kelly Launder
State of VT Public Service Department

Julie Lineberger
LineSync Architecture

Bill Sayre
Associated Industries of Vermont

Leigh Seddon
L.W. Seddon, LLC

Gabrielle Stebbins
Renewable Energy Vermont

Rick Weston
Regulatory Assistance Project

Regulatory Reform

The goal of work in this leverage point area 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. New codes and standards and clarity in regulations and permitting will speed the shift of individual behaviors and business models to reach the goal of 80% by 2030. The focus of this group is to support the work done by the other leverage point work groups.

Projects Completed

Work in this leverage point area is just taking shape and specific outcomes have not yet developed. The core challenge for EAN as a network is to determine where and how we can add value to the existing regulatory and policy conversation in Vermont on energy issues by drawing on our diverse membership and perspectives.

Active Projects

Identification of specific regulatory and permitting ideas that support EAN's 80% by 2030 goal: The work group is engaged in refining a package of regulatory and permitting priorities that can support the electrification of transportation, smart growth land use policy, and building efficiency. Our intent is to develop a package of smaller regulatory changes that in aggregate support significant progress on efficiency and renewables in Vermont.

Advancing the recommendations of the Thermal Efficiency Task Force: EAN members and staff have been involved in development of the recommendations of the Thermal Efficiency task Force as convened by the Public Service Department to meet the legislatively mandated goal of making 80,000 of Vermont's homes energy efficient by 2020. EAN's Capital Mobilization work has been a major input to this process.

Development of a Total Energy Standard: EAN has been working with the Public Service Department to support early-phase stakeholder engagement in this "first-in-the-nation" process.

Next Steps

Refine and advance a package of regulatory reforms through legislative and regulatory changes that support EAN's 80% by 2030 goal.

Provide input and expertise to help develop policy options across all energy sectors as components of a Total Energy Standard in Vermont.

Support and advance appropriate elements of the Thermal Efficiency Task Force's recommendations in the 2013 Legislative session.

EAN's early work helped to inform Vermont's Comprehensive Energy Plan (CEP). The CEP, adopted in 2011, identifies four drivers of progress toward their goal of 90% renewables by 2050: Finance and Funding, Innovation Expertise, Outreach and Education, Regulatory Policies and Structures. These are consistent with the four leverage points identified by EAN.

As Commissioner of the Public Service Department, Elizabeth Miller proposed studying a total energy standard (TES) for Vermont. Miller spoke at EAN's fall meeting to describe the TES and answer questions. Photo by Andrew Stein of VTDigger.org. NOTE: This photo was taken at a December 2012 press conference announcing Miller as Shumlin's new chief of staff. The new PSD Commissioner will be Chris Recchia, Deputy Secretary of Agency of Natural Resources and former EAN board member.

More than 200 Vermonters attended the Electric Vehicle Demo Day on August 9, 2012 hosted by VEIC and Drive Electric Vermont. Pictured above are (from left) Andi Colnes, Miro Wineberger, Karen Glitman and Scott Johnstone. Photo by Eric Hunter, Go About Photography.

EAN Funders for FY 2012-13

Maverick Lloyd Foundation:	$150,000	35%
Green Mountain Coffee Roasters:	$100,000	24%
Canaday Family Charitable Trust:	$100,000	24%
John Merck Fund:	$50,000	12%
Sustainable Futures Fund: *a donor-advised fund of the Vermont Community Foundation*	$12,500	3%
High Meadows Fund:	$10,000	2%
Pomerleau Realty:	$5,000	1%
Total Revenues	**$427,500***	**100%**

Energy Action Network
is deeply grateful
to the funders listed above
for their visionary and generous
support of our work.

**NOTE: The difference between Total Revenues and the FY 2013 Budget Total is in a reserve fund amounting to $15,580.*

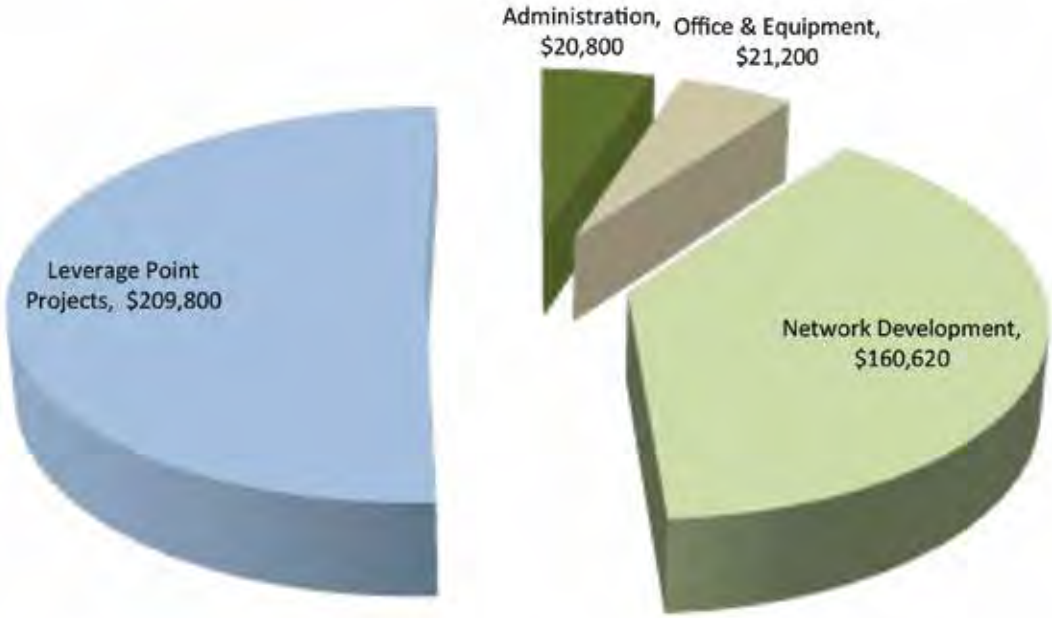
Funding & Financial Sustainability

Overall, in its first year of operation, EAN has strengthened its financial stability and diversified its funding base. Several major funders have been added to our core supporters and the percentage of the total budget supported by any individual funder has declined significantly, reflecting the broader base of support. Next steps towards long-term financial stability will focus on the development of a business model that extends beyond foundation support.

The chart below illustrates the broad components of EAN's current operating budget for our first fiscal year: 2012-13. We are approximately halfway through this period and on track with planned budget and expenses. Complete financial analysis will be available following the close of our current fiscal year in the Fall of 2013.

EAN Annual Budget

July 1, 2012 to June 30, 2013



FY 2013 Budget Total = $412,420*

Facing page: Wind turbines in Searsburg, Vermont. AP photo/Tim Roske

List of Participants

Members

Peter Adamczyk	VT Energy Investment Corp.
Bob Barton	Catalyst Financial
Amanda Beraldi	GMP Energy Innovation Center
Arthur Berndt	Maverick Lloyd Foundation
Anne Berndt	Maverick Lloyd Foundation
Melody Burkins	University of Vermont
Laurie Burnham	Sandia National Laboratory
Paul Burns	VPIRG
Megan Camp	Shelburne Farms
Margaret Cheney	VT House of Representatives
Joseph Cincotta	LineSync Architecture
Hal Cohen	Central Vermont Community Action Group
Andrea Cohen	VT Businesses for Social Responsibility
Andrea Colnes	Energy Action Network
Paul Comey	Green Mountain Coffee Roasters
Paul Costello	VT Council on Rural Development
Matt Cota	VT Fuel Dealers Association
Catherine Davis	Lake Champlain Regional Chamber of Commerce
Eliza Dodd	Green Mountain Coffee Roasters
Robert Dostis	Green Mountain Power
Janet Doyle	IBM
Matt Dunne	Google
Kevin Ellis	Kimball, Sherman and Ellis
Jon Erickson	UVM Gund Institute
Richard Faesy	Energy Futures Group
Karen Glitman	VT Energy Investment Corp.
Bob Griffin	Green Mountain Power
Gwen Hallsmith	City of Montpelier
Dianne Hanlon Druyff	Kelliher Samets Volk
Karen Horn	VT League of Cities and Towns
Scott Johnstone	VT Energy Investment Corp.
Ellen Kahler	VT Sustainable Jobs Fund
Emily Levin	VT Energy Investment Corp.
Julie Lineberger	LineSync Architecture
Paul Markowitz	VT Energy Investment Corp.
Wendy McArdle	Energy Action Network
Carrie McLaughlin	Montpelier Energy Committee
Ralph Meima	Brattleboro Energy Committee
Jim Merriam	VT Energy Investment Corp.
Johanna Miller	VT Natural Resources Council
Lawrence Miller	State of VT Agency of Commerce and Community Development
James Moore	SunCommon
Brian Otley	Green Mountain Power
Tim Palmer	VerMentor
Kenneth Perine	National Bank of Middlebury
Ernie Pomerleau	Pomerleau Real Estate
Mary Powell	Green Mountain Power
Will Raap	Gardener's Supply
Greg Rieder	IBM
Chuck Ross	State of VT Agency of Agriculture
Bill Sayre	Associated Industries of Vermont
Liz Schlegel	Institute for Sustainable Communities
Leigh Seddon	L.W. Seddon, LLC
Tim Shea	National Life Group
Ron Shems	State of VT Natural Resources Board
Mary Margaret Sloan	Vital Communities
Shap Smith	VT House of Representatives
Janice St. Onge	VT Sustainable Jobs Fund
Gabrielle Stebbins	Renewable Energy Vermont
Mary Sullivan	Burlington Electric Department
Gaye Symington	High Meadows Fund
Tom Torti	Lake Champlain Regional Chamber of Commerce
George Twigg	VT Energy Investment Corp.
Marianne Tyrrell	Catalyst Financial
Rick Weston	Regulatory Assistance Project
Jeff Wolfe	Jeff Wolfe Consulting
Karen Yacos	Green Mountain Coffee Roasters
Eric Zency	UVM Gund Institute

State Partners

Beth Pearce	Treasurer
Chris Recchia	Public Service Department
Ed Delhagen	Public Service Department
Asa Hopkins	Public Service Department
Kelly Launder	Public Service Department
Anne Margolis	Public Service Department
Andrew Perchlik	Clean Energy Development Fund

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