Finding the Funds

Financing Community Energy Improvements



Image courtesy: Syracuse New Times

Richard Faesy, Energy Futures Group Mike Davey, Energy Efficient Investments Kate Stephenson, Montpelier Energy Advisory Committee

Vermont Energy and Climate Action Network and University of Vermont Extension

11th Annual Community Energy and Climate Action Conference "Mobilizing Leadership to Make Bold Progress"



December 1, 2018



Vermont Clean Energy Finance Report 2018



About Energy Futures Group

Vermont-based clean energy consulting firm established in 2010

Areas of Expertise

- Energy Efficiency & Renewable Energy
- Program Design
- Policy Development
- Expert Witness Testimony
- Building Codes
- Evaluation
- Cost-Effectiveness

Range of Clients

- Government Agencies
- Advocates
- Regulators
- Utilities

Clients in 39 states and provinces plus regional, national and international organizations.





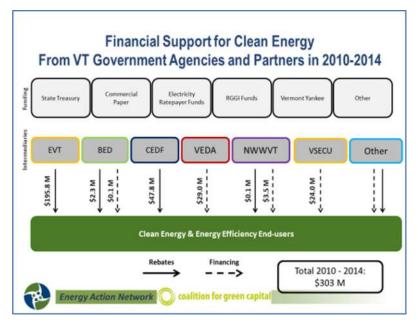
Vermont Clean Energy Finance Report Overview

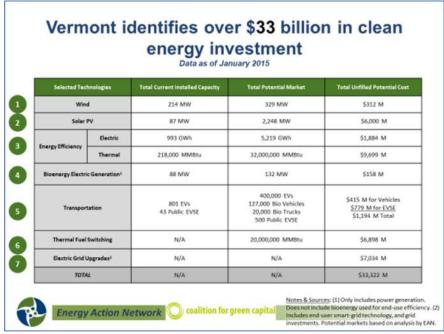
- 1. Why
- 2. What
- 3. Findings





1. Why a "Vermont Clean Energy Finance Report?"





Sources: Energy Action Network



2. What is the "VT Clean Energy Finance Report?"

A "snapshot" of the VT clean energy financing market:

- A review of what financing can, and cannot, do
- Surveys & Interviews
- An assessment of what's missing
- A compilation of available financial products



https://publicservice.vermont.gov/sites/dps/files/documents/Renewable_Energy/CEDF/Reports/Vt._Clean_Energy_Finance_Rpt_2018.pdf

Funded by the Clean Energy Development Fund housed at the Vermont Public Service Department – with thanks to Chris Kramer, Peter Adamczyk, Bob Barton



2. What do we mean when we say...

"Clean energy finance product"...

...lease, loan, credit card purchase, payment plan, a home refinance or home equity line of credit. Financing is *not* a direct incentive, subsidy or rebate – this is funding.

"Clean energy project"...

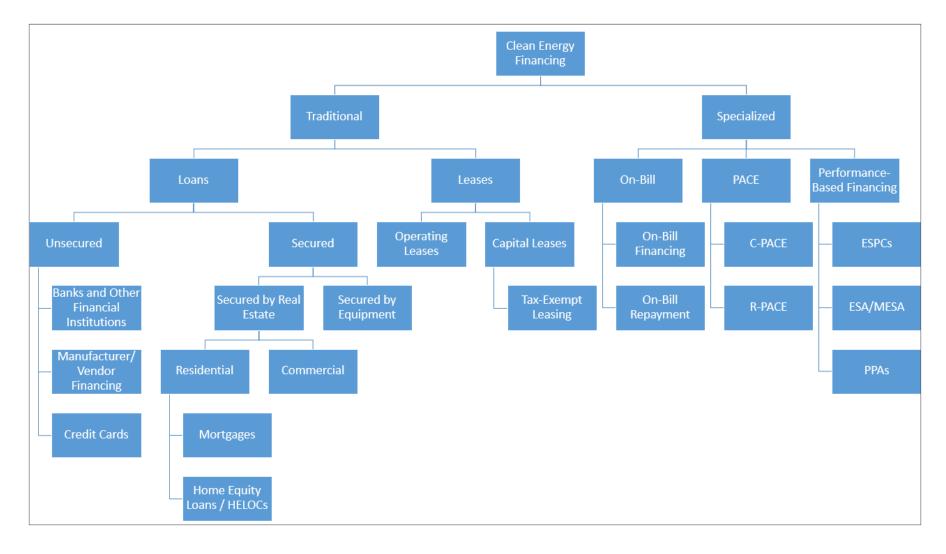
...a solar array, a comprehensive building efficiency retrofit, an electric vehicle, an upgrade to manufacturing equipment...it is not a "small ticket" item.

"High cost" is not the same as "upfront cost"



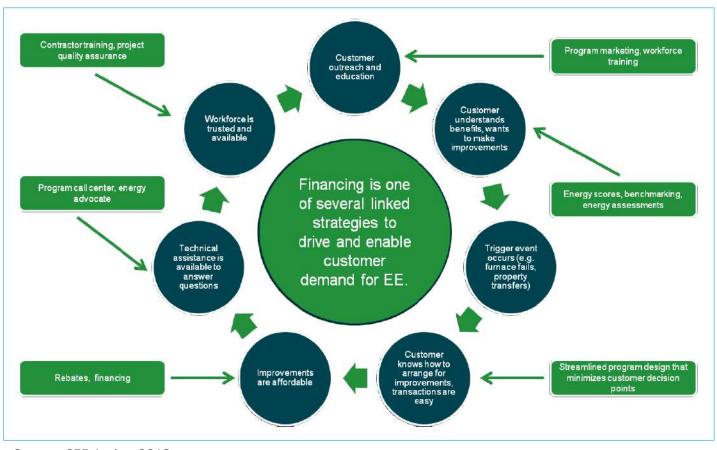


2. What are the different types of financing products?



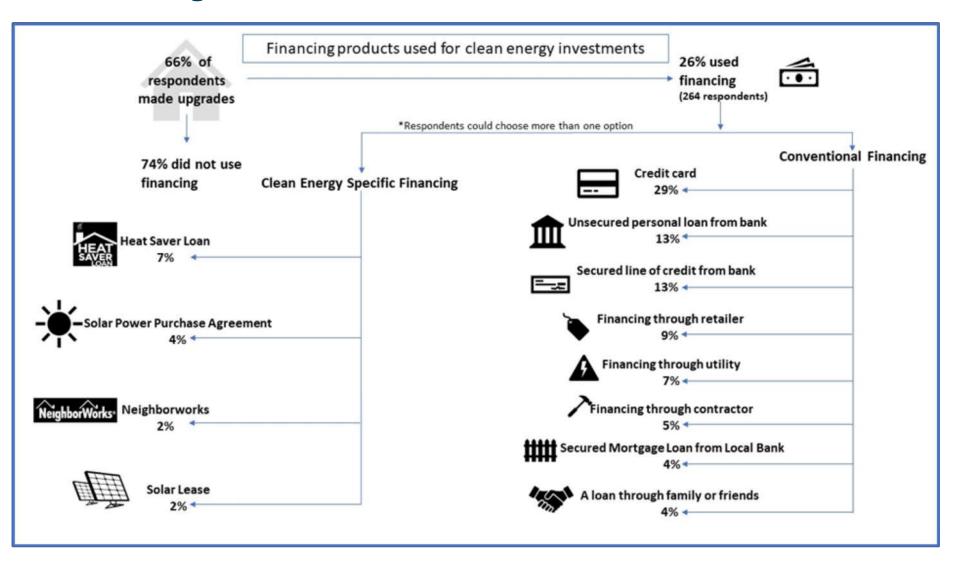


2. What can financing do, and not do?

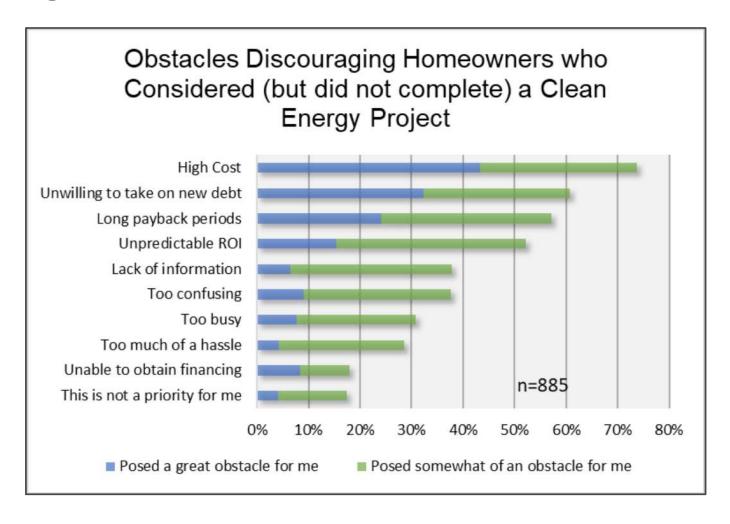


Source: SEE Action 2013

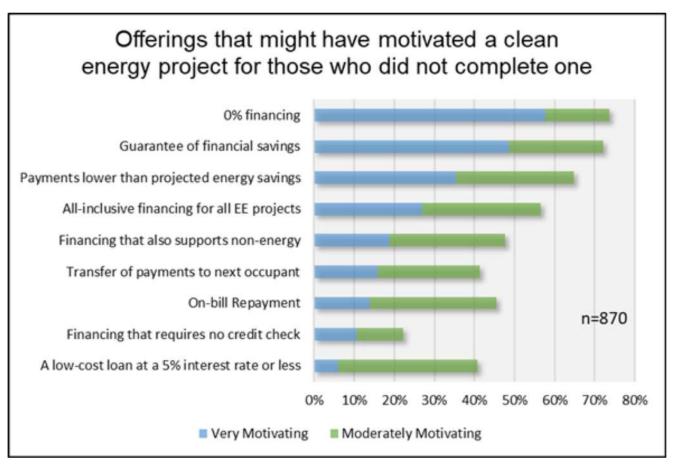












Customers might be interested in...a cash-flow positive, savings-guaranteed offering.



- They know they can take out traditional financing (>70%)
- They do not want to go into debt (>70%)
- 74% of homeowners who completed a clean energy project did not use financing
- For the 26% who used financing, credit cards were the first go-to product, followed by bank loans and lines of credit
- For those who use financing, it's a deal breaker; without financing, they could not have done the work (only 17% said they could have definitely done the work otherwise)
- Obtaining financing was not a major barrier for the majority of survey respondents (69%); however, for the 31% who said obtaining financing is somewhat/very difficult, stretch underwriting would help
- They feel this work costs too much (>70%)
- Nearly half of those who said they didn't do a project said "affordable" financing might have helped them move forward...or maybé not
- An "affordable" rate is 2-3% (>30%)
- They would really like 0% financing (>70%)...but after that, they'll take a guarantee on the savings (>70%)



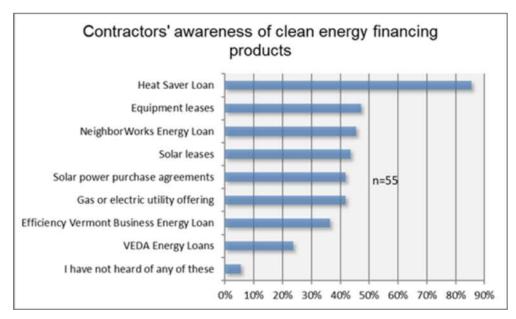
3. Findings: Business/Commercial Results

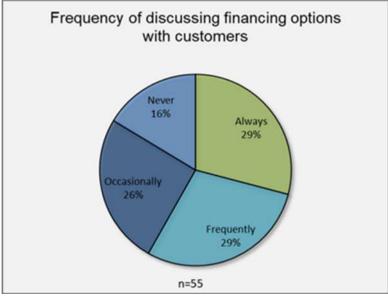
- They feel this work costs too much
- They do not want more debt
- They know there are financing options available, and they do not think obtaining financing is hard...but they'd appreciate a quicker, easier process
- A guarantee of the energy savings would help motivate them to move forward with projects, along with financing payments that are less than the energy savings

Caveat: LOW RESPONSE RATE (n=17), BUT CORROBORATED BY OTHER DATA SOURCES



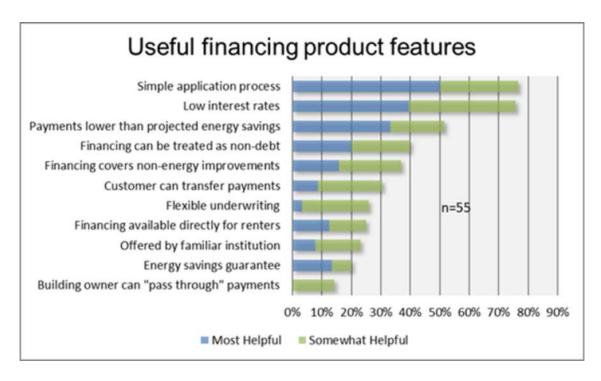
3. Findings: Contractor/Installer Results







3. Findings: Contractor/Installer Results

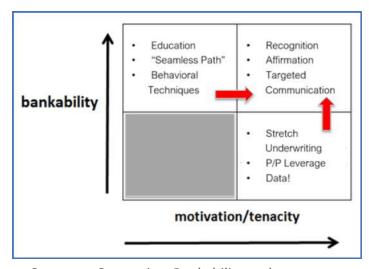


In sum: If the financing product is easy to explain and administer, contractors will act as the marketing agent.



3. Findings: Lender Results

- Generally, they feel they are meeting their customers' needs
 - Note: 31% of homeowners said it was somewhat/very difficult to obtain financing
- Lenders feel that they cannot convince a customer to finance a clean energy project
 - The customer must already want to complete the project and more education is needed in this area
- 53% offer a specialized product; 47% do not
 - Of the 47% that do not offer a specialized product, 43% had at one time done so but felt there was not enough demand
 - Setting up energy-specific products take time and resources; need compelling reason
- They feel there are other issues that make clean energy projects challenging for customers to complete
 - Complexity in technology and in project scope
 - High project cost



Customer Categories: Bankability and Motivation (P. Adamczyk)



3. Findings: Multiple Products are Available (see handout)

		gy Financing Products: Residential
Provider of Procket	Examples of Specific Products	Detailed Description
Collaborations and Partnerships	Efficiency Vermont: Heat Saver Loan (with various credit unions)	Secured and unsecured low interest loans for a range of efficiency improvements. Low-income rate of 0.99% for terms up to 5 years, and 2.99% for terms >5 years up to 15 years. Statewide.
	Vermont Gas: Residential Heating Loan	For high efficient heating systems (for heating and hot water) via Green Mountain Credit Union. 0% to 4% loans for terms of 3, 5 & 10 vrs. on-bill.
	Burlington Electric Department: Electric Vehicle Financing	Utility partnership with three credit unions to offer low and no-interest loans.
	Vermont Electric Co-og: Community Solar	10- and 20-year plans with fixed solar energy monthly credit and financing via Neighbor Works of Western VT.
Community Development Historical Institutions (COPIG* and Community Loon Fields	Chemisian Housing Trust Housing Lown fund, Home Repair, Lastis	income—and location-qualified for energy upgrades identified in an audit. Security, 2nd mortgage. Max amount \$25k (\$35k for manufactured homes). Interest rates 1,2% - 4,5% APE. Northwestern VT. Loansmay be deferred, due on sale or assumable by rext owner if income-eligible.
	Chemolein riousing Trust Housing Loen Fund: Menufectured Housing Down Payment Loan Program	none—and location-qualified for downowment loans to replace old manufactured home with a new therigy star Nated model. Socurely, and energage. Max amount \$27.5 k. No interest and no manthly payments, loan balance paid off when home is said or trendered to income all gible becambod. Northwestern VT. Out of furth (Nateh 2018).
	Chemisish Housing Trust Housing Lawt fund: Menufactured. Housing Down Payment Loan Program	nome—and isostion-gualified for downpayment barrs to purchase a VERNOO High Performance Home. Scurify, and mortgage. Miss amount \$55 k. No interest and no morthly gayments. Principal day upon sale, transfer to income-eligible household or refinance. Northwestern VT. Cut of funds (March 2018)
	Description of Housing and Community Dave Imment, I forms.	Income qualified loans for weatherstation, health and safety and solar hot water. Central VT.
	Windhern and Windsor Housing Trust: Home Repair	income qualified loans for weather tration, health and safety improvements. Discounts for wood or pellet stories. Southeastern VT.
	HuralEdge Community Development Corporation: Home HepairLoans	income- and location-qualified loans for weathercration, health and safety improvements. Northeastern VT.
	NeurhborWorks of Western Vermont: Home Repair Loans	income- and location-qualified loans for weathercration, health and safety improvements. Southwestern VT.
	NeighborWorks of Western Vermont Energy Loan	Energy Loan offering on-bill repayment option for Green Mountain Power customers. Range of eligible activities, 4.99% unsecured, up to 10 years, up to \$40,000. Statewide.
Utilities	Green Mountain Power: Tesla Powerwall	\$15/month lease for 10 years or \$1,500 upfront payment for Powerwall and install on bill.
	Green Mountain Power: Ductless Heat Pump	\$49 -\$81/month lease (180 months, 10.74% APR). Program update coming soon.
	Green Mountain Power: Heat Pump Water Heater	\$25-\$44/month lease (180 months, 10.74% APR). Program update coming soon.
	Green Mountain Power: Products related to electric vehicles	39.99/month lease for a charger offering a \$29.99/month off-peak unlimited charge plan or \$0.60/kWh during peak hours.
Federal Government Products	US Dept. of Housing and Urban Development: Federal Housing Administration Energy Efficient Mortgage	PHA insures a borrower's mortgage, for a home purchase or refinance and coverable cost of energy intercomments on top of mortgage. Maximum amount varies becausely available throughout without purpose a warlable for book Yullay through New Hampshire Energh, Launched March 2004.
	US Dept. of Veterann Affeir asserwiteed. Die my tiff sient.	Allows qualified busins to add up to 56,000 to a mortgage for approved a neigy improvements into a loan at time of home purchase or refinancing. Offered via private mortgage lenders.
	US Doot, of Agriculture Rural Development, Sirute Family, Housing Repair Loans	Also knoom as Section 504 Home Repair program. Up to \$20,000 at 1% fixed, up to a 20-year farm for why-low-income homeowners to repair, improve or recodemize their homes.
	Earnise Mae HomeStyle Discipy Mortgage Load	the tap of flictency mortgage product that provides loan dollars for energy efficiency improvements usen provides go or left inscring shome. Can be onco up to \$0,0000 show home value if supported to the improved "grounded value" can be done up to \$5,000 show home value without an "far- ingnoved" value supporting this additional amount. Requires energy report and scope of work, among other results were tax.

Provider of Product	Examples of Products	Detailed Description
	Self-Managed Revolving Loan Fund	Governments/hospitals/non-profits and higher education institutions can set up a self-managed green revolving loan fund with terms and parameters set by host savings are used to pay for future projects; projects vary by need and interest of host.
	Endowment institute: Building Energy Swangs Together	The "865T" Fund is a pooled revolving loan fund for under-resourced insitutions that need capital for energy efficiency projects.
	Energy Performance Contracting via Energy Service Companies (ESCOs)*	ESCOs are a type of company that typically combines an energy savings guarantee with a lease or bond to provide an Energy Performance Contract to suit the needs or the institution (government, schools, larger facilities). Lisually there is a price floor for entry.
	Municipal Leasing and Lease Purchase Financing	Allows units of government to obtain energy upgrades with less cost than other financing options; terms vary 2-20 years; build equity and own at the end of term. The most common mechanism is a municipal tax exempt lease purchase agreement.
Utilities	Vermont Gas: Commercial Customer Financing Program	Vermont Gas offers 0% interest loans for 3 years, 2% for 5 years and 4% for 10 year loans through the Green Mountain Credit Union for upgrading to a new high efficient heating system. The maximum loan per individual applicant is \$15,000. Also available are loans for small retrofit and equipment replacement projects.
Municipal	Vermont Municipal Bond Bank (VMB8)	Provides support for municipalities to issue tax-exempt bonds including those that support renewable energy and energy efficiency projects.
	Municipal Revolving Loan Funds	Some towns operate or contract to others for operations of revolving funds that can be used for infrastructure including energy opgrades. The City of Montpeller is the first to undertake this initiative in Vermont specifically for dean energy.
Federal Government	United States Department of Agriculture Rural Development: Community Facilities Direct Loan Program	Low interest direct loans (below 4% for Q2 2018) for up to 100% of the project cost for facilities that provide "an essential community service" such as health care services, local government services (libraries, cultural facilities) and educational services. Term is "up to the useful life of the asset" (up to 30 years).
	United States Department of Agriculture Rural Development: Rural Economic Development Loan Program (REDLG)	0%, 10-year loan for nonprofit utilities for projects that will create or retain rural jobs.
State	Vermont Department of Buildings and General Services (BSS) "State Energy Management, Program": State Resource Management, Bevolving Loan Fund (SBMRLF) and State Energy Revolving Fund (SBMF).	SRMRUP, \$1.5 million fund available for resource conservation measures, SERF-Up to \$8 million latthe discretion of the state Treasurer) for energy efficiency and renewable projects at state properties. State funds are managed by the Treasurer's Office with 805 technical staff overseeing individual projects.
	VEDA: Electric vehicle Charging Station Loan Program	Funded through the State infrastructure bank with Vermont Agency of Transportation and the Federal Highway Administration. Up to \$100,000 for purchase (Installation of electric vehicle charging stations that are available for public use. 3% fixed rate, serim dependent on useful life of asset; 2% commitment fee.
	VEDA: Vermont 204 Corporation	VEDA's diffuse Vermont 204 Corporation helps borrowers access the federal Small Buliness, Admirest buling program to finance fixed asset projects including renewable energy and energy efficiency project swith loans of up to 40% of a project [max loan 55.5 million]. Loans are 10 year terms on equipment, or 20 or 25 year terms on real estate projects.
	VEDA: Tax Exempt Revenue Bond Program for Non-Profits	Renewable and efficiency projects undertaken by SOL(c)(3) non-profits. Low interestrate due to the tax exemption on the interest income to the bondholder. Frequently bought by banks or other irrelators and sometimes publicly issued.

Vermont Clean Energy Financing Products: Businesses				
Provider of Whatlatt	Exemples of Specific Modulation	Detailed Description		
	Vermont Economic Development Authority (VEDA): Commercial Energy Loan Program	Up to \$2 million (usually 60% of project cost) to finance qualifying efficiency and renewables projects. Rates and terms case by case.		
	VEOA: Agricultural Energy Loan Program	For agriculture- and forest product-based businesses. Up to \$2 million. Terms, rates, 1% of project cost determined case by case.		
	VEDA: Electric Vehicle Charging Station Loan Program	Funded through the State Infrastructure Bank with Vermont Agency of Transportation and the Federal Highway Administration. Up to \$100,000 for purchase finitaliation of electric vehicle charging stations that are available for public use. 3% fixed rate, term dependent on useful life of asset: 2% commitment fee.		
	VEDA: Vermont S04 Corporation	VIDA's Affiliate Vermont SQL Corporation helps borrowers across the federal Small bosiness Administration program to finance fixed asset projects including renewable energy and energy efficiency projects with loans of up to 40% of a project (max loan SS.5 million). Loans are 10 year terms on equipment, or 20 or 25 year terms on real extate projects.		
	VEDA: Tax Exempt Revenue Bond Program for Non-Profits	Renewable and efficiency projects undertaken by SOI(c)(3) non-profits. Low interest rate due to the tax exemption on the interest income to the bondholder. Frequently bought by banks or other investors and sometimes publicly issued.		
	VEDA: Montpeller Heating District Loan Program	Up to \$80,000 to assist in connecting and converting to district heating system. 4% fixed rate, 5-7 year term. City of Montpeller contributes 10% of the project cost. \$100 application fee and 1.25% commitment fee at closing.		
CIVIS & Community Loan Funds	Various I Community Lows Fund Business (492)	(i) to 250K with an average rate is 7.29% with turner unging from mortis to 20 years, 3rd application fee, 525 coloning tool and 1th origination fee. California imposed, case can be used for a variety of uses -not energy specific that has been used multiple. There for energy word.		
Utilities	Burlington Electric Department: On-Bill Financing Service	Loans from \$2,500 - 550,000 maximum per building. No money down, 12-72 month fixed -rais, maximum 4th. Requires no out of pocket expense for electric efficiency projects. Loans can be structured as soft flow positives. Repaid into revelving loan fund dedicated to electric efficiency improvements for Burlington businesses. Standard loan underwriting.		
	Verteert Sec Commercial Contener Financing. Program	Vernort Gal offers (It interest isom for 1 years, 70 for 5 years and 85 for 12 year leave through the dress observation Credit sector for aggreeing to year high afficient hading system. The maximum has per individual agricumt in 223,000, 450 and obtained yet leave for small insteads and application of problems of problems.		
	Officency Vermont Business Design Loan Evapors Selft various small Linksmal	No (fishing costs, SE-dimen, Low interest fluors via VSESS, SSCXXX cap, Nov-bits berns as to XE-years, LIDES financing evellable. No business financials required, Available to non-profits and malificiality vertal fluoring.		
	Officiancy Varmont, Financing for Aprilultural, Operations (with various credit various)	Below that between ratio. Families forms up to 5 years, 100% thanking assistable for put offection energy improvements to agricultural operations.		
	US Dept. of Agriculture Sone Development. Buse Shelps for America Program, Renewable triengy Systems and Energy Efficiency.	Government loans ranging from SSR to SSS million for renewable system indellation and efficiency improvements. Rates and terms (T-20 years) negotiable. This is an enquire is 25% match, which can be obtained through the USCA grant graguans.		



3. Findings: Challenges and Opportunities to Address

Residential:

- Limited funds to support credit enhancements
- Underwriting processes that rarely account for energy savings
- Limited energy savings guarantees
- Report references: Sealed, Posigen, Zero Energy Now, Energy Savings Mortgage Program

Commercial (or "business"):

- Underwriting processes that rarely account for energy savings
- Few off-balances sheet finance options
- Report references: Joule Assets, Efficiency Capital

Institutional (or, MUSH):

- Limited capital
- Short loan terms that limit the depth of energy savings achieved in a project

Broadly:

• No coordinated and consistent tracking system to establish a baseline of existing financing products and to determine progress in using financing in facilitating clean energy projects



Richard Faesy

PRINCIPAL









Energy Efficient Investments ENE Energy Advisors

Introduction to Performance Contracting

Mike Davey







The EEI & ENE Energy Advisor

A proven process ...



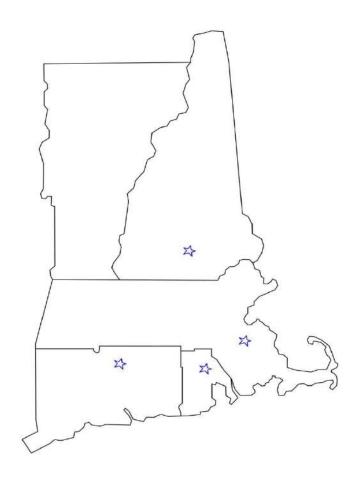
ENE System, Inc. is the largest independently owned controls contractor in New England (Since 1987)

EEI Systems was founded by ENE to service Northern New England clients (Since 2007)

Local ownership and management



Office Locations





Project Success Stories

Addison Northeast Bennington, VT Keene School District Shaker Regional School District







How to fund projects

- In Budget (Chesterfield & Portsmouth Example)
- Warrant Article (Addison and Bennington)
- Board Lease approval (Plymouth and Fall MT)



What is a Performance Contract?

Vermont State Law:

- 2013 Vermont Statutes
 Title 16 Education
 Chapter 123 STATE AID FOR CAPITAL CONSTRUCTION COSTS
 § 3448f Energy performance contracting; authorization; state aid
- State law allows project to be financed for a period of up to twenty years
- State law allows for lease finance payment of projects
- RFP must be issued
- Energy Savings pay for project over time.



Energy Performance Contract Goals

- Improve Buildings
- Reduce Energy Cost
- Increase renewable options (Solar/Bio-mass)
- Create a Project that is cost neutral in which energy savings pay for project cost
- Reduce Energy Consumption
- Energy Savings will be guaranteed



Unique Opportunities

Solar Photovoltaic (PV)

- Installing solar panels helps the end user generate electricity to be used, stored, or sold back to the utility companies.
- Utility rebates and tax deductions are available.
- End users are able to see the energy they are generating using a web based monitoring interface.





Sample Project

Plymouth High School

- \$2,000,000 dollar project
- School District will save over \$120,000 per year
- Project will be "Tri-Fuel"
- Funded in cost neutral budget
- New LED lighting
- New Transformers





Manchester School District

- \$4 Million in Energy Efficiency spending across 22 buildings
- Replace Outdated Equipment
- New LED Lighting
- More than \$800,000 in Grants and rebates
- More than \$325,000 in Energy Savings



Manchester Transformers

Existing
Transformers were
50 years old,
oversized and
inefficient. New
Transformers had a
payback of 3 years.







Bennington Vermont

- 4.4 Million dollar project
- LED Lighting
- VFD Controls
- New Exterior Windows
- New boilers and steam conversion

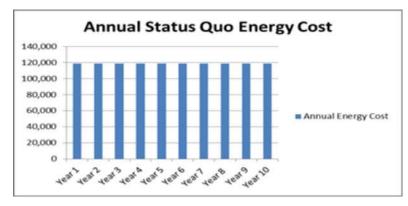


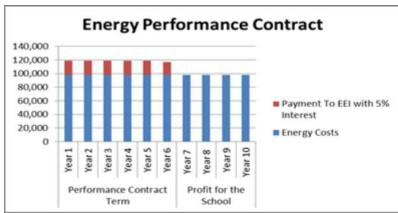
Addison Northeast

- Natural Gas Conversion
- LED Lighting
- Building Controls
- Building Insulation Improvements
- Transformer Replacements
- Solar PV



Energy Savings Pay for Improvements





Example Sample NH
High School new lights,
controls, and HVAC
improvements where
paid for through grants
and energy savings



Our Lean ESCO Approach

Similar to General Contracting with the following exceptions:

- 1) Focused on energy and operational savings
- 2) Assist in financing projects & finding grant/rebate funds
- 3) Self perform Engineering Services
- 4) Guaranteed Savings
- 5) M&V Program to ensure long term savings

Energy Audit

EA performs low or no-cost Energy Audit

Customer

Selects measures for development

Contract

EA provides FIGA & Customer signs EPC

Construction

EA approves and hires subcontractors

Guaranteed Savings

EA performs M&V to confirm Energy Savings

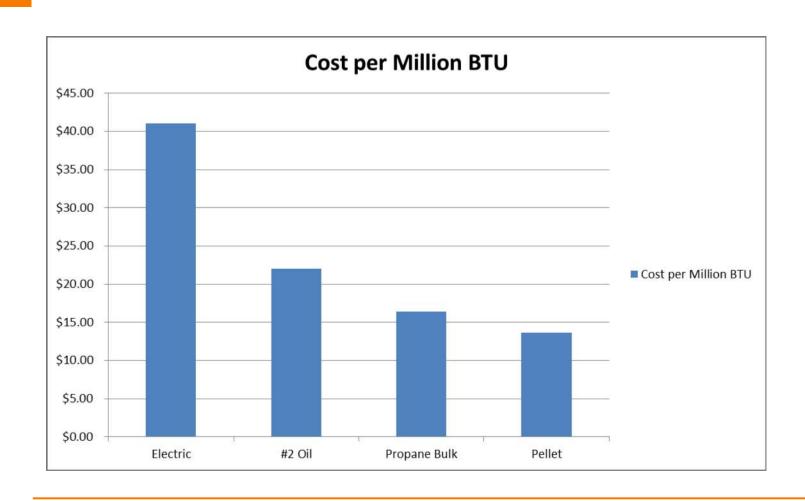
FIGA - Final Investment Grade Audit

EPC – Energy Performance Contract

M&V – Measurement & Verification



State of Vermont Current Fuel Economy





Energy Projects



Similar to General Contracting with the following exceptions:

- 1) Focused on energy and operational savings
- 2) Assist in financing projects & finding grant funds
- 3) Self perform Engineering Services
- 4) Guaranteed Savings
- 5) M&V Program to ensure long term savings



HVAC Controls Improvements

- DDC Controls Upgrade
- Demand Control Ventilation
- Re-Balancing
- VFD Drives





Question & Answers

Follow-up questions can be emailed to Mike Davey at MDavey@EEIServices.com

NET ZERO MONTPELIER

LAUNCHING A
REVOLVING LOAN FUND



MONTPELIER ENERGY ADVISORY COMMITTEE

PURPOSE

The purpose of the Fund is to capture and track savings from municipal sustainability projects and to utilize part of those savings for subsequent projects.



HISTORY

Spring 2016: MEAC reached out to the Sustainable Endowments Institute for help in setting up the Revolving Loan Fund.

Summer 2016: We formed a Revolving Loan Committee made up of 3 city staff and 3 MEAC members to review loan proposals.

Fall 2016: Montpelier City Council allocated \$20,000 from the Reserve Fund to establish a green revolving loan fund for municipal energy projects. Efficiency Vermont offered to match with an additional \$10,000.

Winter 2017: Committee developed guidelines and loan application process. Set up GRITS database to track projects.

Spring 2017: RFP issued for energy audits of 6 municipal buildings

Winter 2018: Audit report completed by Cx Associates

Spring 2018: One-on-one meetings with city staff to review audit recommendations

Fall 2018: First projects underway







BUILDING THE FUND

Cost savings from all funded projects will accrue to the Fund according to the following formula:

- 1) Until the project's cost have been recovered, all savings will accrue to the Fund.
- 2) After the initial "payback" has been achieved, 50% of the savings will accrue to the Fund for an additional 2 years.
 - 3) After this period, all further avoided cost savings will accrue to the City.
- 4) Additional funds can be added to the Fund at any time from public or private sources, subject to the same restrictions.



CURRENT PROJECTS

Weatherize 150 windows in City Hall

Upgrade house lights in City Hall theater

Install 16 interior storm windows at Department of Public Works office

COMPLETED PROJECT

Install capacitor at water treatment plant to reduce peak demand charges

PROJECT TRACKING



City of Montpelier

TOTAL PROJECTS FUNDED (COMPLETED / IN-PROGRESS)

1/4

TOTAL INVESTED TO DATE *

\$2,700

MEDIAN PAYBACK PERIOD

1.35 years

MEDIAN ANNUAL FINANCIAL SAVINGS

\$ 2,000

MEDIAN ANNUAL **ENERGY SAVINGS**

0.00 mmbtu

TOTAL FINANCIAL SAVINGS TO DATE

\$ 3,288

TOTAL ENERGY SAVINGS TO DATE

0 mmbtu

TOTAL EMISSIONS ABATED TO DATE

0 MTCO2e

Efficiency data powered by GRITS



Includes investments to in-progress projects without savings to date Last updated 11/23/2018



				Actual or Projected		Annual Savings			
PROJECT A	STATUS	INSTALL COMPLETE DATE	TYPE	COST	ANNUAL ROI	PAYBACK (YRS)	EMISSIONS (MTCO2E)	ENERGY (MMBTU)	WATER (GAL)
Capacitor	Completed	04/03/2017	 Metering/Ener gy Data Monitoring and Control Systems 	\$2,700	64.1%	1.3	0	0	0
City Hall Lighting Up- grade	In-Progress	12/31/2018	o Lighting	\$4,876	2.3%	8.1	2	15	0
City Hall Win- dow Air Seal- ing	In-Progress	12/31/2018	o Building Envelope	\$6,500	-5.0%	0.0	0	0	0
Dehumidifier Replacement	Proposed	12/31/2019	 Building Heating, Ventilation, Air Conditioning (HVAC) 	\$ 148,776	-10.0%	0.0	0	0	0
DPW Office Interior Storm Windows	In-Progress	12/31/2018	o Building Envelope	\$ 1,568	-5.0%	0.0	0	0	0
Police Station Cooling Up- grade	In-Progress	12/31/2018	 Building Heating, Ventilation, Air Conditioning (HVAC) 	\$ 147,000	-6.7%	0.0	0	0	0
Police Station HVAC Con- trols	Proposed	09/01/2017	 Building Heating, Ventilation, Air Conditioning (HVAC) 	\$7,500	188.2%	0.5	49	512	0

ENERGY AUDITS

Spent \$20,000 in 2017 to audit 6 municipal buildings

CITY STAFF

encourage City staff to propose projects

RETRO COMMISSON

Deep dive into HVAC on 4 muncipal buildings - paid by EVT

MEAC

energy committee members can propose projects



CHALLENGES

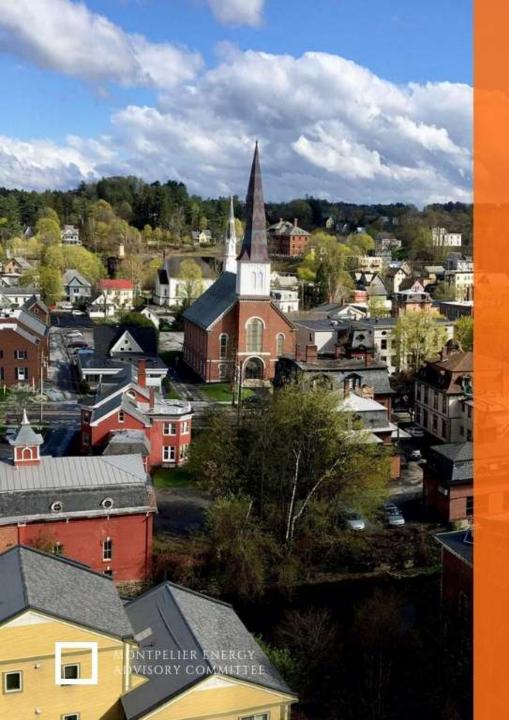
- 1. Getting quotes from subcontractors
- 2. Quantifying potential savings for GRITS to identify payback
- 3. Identifying point people at each facility
- 4. Need for project manager to coordinate subs





RECOMMENDATIONS

- Plan on 12 months to set up a Fund
- Work with the Sustainable Endowments Institute to develop policy and guidelines
- Work with Efficiency Vermont to access incentives and retrocommissioning expertise
- Conduct energy audits to identify potential projects and rank measures according to payback time
- Develop baseline energy data for each building to determine savings



LEARN MORE

EMAIL

netzeromontpelier@gmail.com

WEBSITE

www.netzeromontpelier.org

Finding the Funds – Q&A

Financing Community Energy Improvements



Image courtesy: Syracuse New Times

Richard Faesy, Energy Futures Group Mike Davey, Energy Efficient Investments Kate Stephenson, Montpelier Energy Advisory Committee

Vermont Energy and Climate Action Network and University of Vermont Extension

11th Annual Community Energy and Climate Action Conference "Mobilizing Leadership to Make Bold Progress"

December 1, 2018

