



ANNUAL REPORT

2014

OCTOBER 7, 2015

128 LAKESIDE AVENUE, SUITE 401
BURLINGTON, VERMONT 05401
(888) 921-5990

WWW.EFFICIENCYVERMONT.COM

This report is submitted to the Vermont Public Service Board and to the Vermont Public Service Department, in fulfillment of the regulatory requirement for submitting Efficiency Vermont's Annual Report for 2014.



ANNUAL REPORT 2014

TABLE OF CONTENTS

1.	RESULTS OVERVIEW	1
1.1	QUANTIFIABLE PERFORMANCE INDICATORS	2
1.2	ECONOMIC BENEFITS	4
1.3	ELECTRIC EFFICIENCY SAVINGS	5
1.4	THERMAL ENERGY AND PROCESS FUELS (TEPF) EFFICIENCY SAVINGS	8
1.5	ENVIRONMENTAL BENEFITS	9
2.	2014 ACTIVITIES	11
2.1	SERVICES TO BUSINESS, INSTITUTIONAL & MUNICIPAL FACILITIES	13
2.1.1	VERMONT'S LARGEST ENERGY USERS	13
2.1.2	SMALL AND MEDIUM-SIZED BUSINESSES	14
2.1.3	TARGETED MARKETS	15
2.1.4	KEY COMMERCIAL TECHNOLOGIES	18
2.2	SERVICES TO HOMES	20
2.2.1	EXISTING AND NEW LOW-INCOME HOUSING	20
2.2.2	EXISTING MARKET-RATE HOMES	21
2.3	SERVICES TO GEOGRAPHICALLY TARGETED AREAS	22
2.4	ACTIVITIES IN SERVICE TO MULTIPLE CUSTOMER SECTORS	23
2.4.1	NEW CONSTRUCTION SERVICES	23
2.4.2	RETAIL EFFICIENT PRODUCT SERVICES	26
2.4.3	SERVICES TO BUILDING IMPROVEMENT CONTRACTORS	27
2.4.4	SERVICES TO EQUIPMENT SUPPLY CHAIN PARTNERS AND TECHNICIANS	28
2.4.5	TRADE ASSOCIATION PARTNERSHIPS	28
2.4.6	COMMUNITY-BASED ACTIVITIES	29
2.4.7	FINANCIAL SERVICES	30
2.4.8	COORDINATION WITH DISTRIBUTION UTILITIES	31
2.4.9	STATE, REGIONAL, AND NATIONAL PARTNERSHIPS	32

2.5	MARKET ADVANCEMENT ACTIVITIES	32
2.5.1	EDUCATION AND TRAINING	32
2.5.2	APPLIED RESEARCH AND DEVELOPMENT	34
2.5.3	PLANNING AND REPORTING	37
2.5.4	EVALUATION	38
2.5.5	POLICY AND PUBLIC AFFAIRS	39
2.5.6	INFORMATION TECHNOLOGY	42
2.5.7	GENERAL ADMINISTRATION	43
2.5.8	CONSUMER BEHAVIOR STUDIES	43
3.	RESOURCE AND NON-RESOURCE ACQUISITION RESULTS	45
3.1	RESOURCE ACQUISITION SUMMARY	47
3.2	BUDGET SUMMARY	48
	<i>Quantifiable Performance Indicators and Minimum Performance Requirements</i>	
3.3	2012 – 2014 ELECTRIC PERFORMANCE INDICATORS & MINIMUM REQUIREMENTS	49
3.4	2012 – 2014 ELECTRIC MINIMUM TRB PER GEOGRAPHIC AREA (QPI #12)	50
3.5	2012 – 2014 THERMAL ENERGY AND PROCESS FUELS PERFORMANCE INDICATORS & MINIMUM REQUIREMENTS	51
3.6	SERVICE QUALITY AND RELIABILITY SUMMARY REPORT	52
	ELECTRIC	
	<i>Combined Resource Acquisition</i>	
3.7	ELECTRIC RESOURCE ACQUISITION SUMMARY	53
3.8	DETAIL SUMMARY, INCLUDING CUSTOMER CREDIT	54
3.9	DETAIL SUMMARY, EXCLUDING CUSTOMER CREDIT	55
3.10	END USE BREAKDOWN	56
3.11	UTILITY BREAKDOWN	57
3.12	COUNTY BREAKDOWN	58
3.13	TOTAL RESOURCE BENEFITS	59
	<i>Business Energy Services</i>	
3.14	SUMMARY	60
3.15	END USE BREAKDOWN	61
	<i>Residential Energy Services</i>	
3.16	SUMMARY	62
3.17	END USE BREAKDOWN	63
	THERMAL ENERGY AND PROCESS FUELS	
	<i>Combined Resource Acquisition</i>	
3.18	SUMMARY	64
3.19	DETAIL SUMMARY	65
3.20	END USE BREAKDOWN	66
3.21	TOTAL RESOURCE BENEFITS	67

	<i>Business Energy Services</i>	
3.22	SUMMARY	68
3.23	END USE BREAKDOWN	69
	<i>Residential Energy Services</i>	
3.24	SUMMARY	70
3.25	END USE BREAKDOWN	71
4.	MAJOR MARKET RESOURCE ACQUISITION RESULTS	73
	ELECTRIC	
	<i>Business New Construction</i>	
4.1	SUMMARY	75
4.2	END USE BREAKDOWN	76
4.3	TOTAL RESOURCE BENEFITS	77
	<i>Business Existing Facilities</i>	
4.4	SUMMARY	78
4.5	END USE BREAKDOWN	79
4.6	TOTAL RESOURCE BENEFITS	80
	<i>Residential New Construction</i>	
4.7	SUMMARY	81
4.8	END USE BREAKDOWN	82
4.9	TOTAL RESOURCE BENEFITS	83
	<i>Efficient Products</i>	
4.10	SUMMARY	84
4.11	END USE BREAKDOWN	85
4.12	TOTAL RESOURCE BENEFITS	86
	<i>Existing Homes</i>	
4.13	SUMMARY	87
4.14	END USE BREAKDOWN	88
4.15	TOTAL RESOURCE BENEFITS	89
	THERMAL ENERGY AND PROCESS FUELS	
	<i>Business New Construction</i>	
4.16	SUMMARY	90
4.17	END USE BREAKDOWN	91
4.18	TOTAL RESOURCE BENEFITS	92
	<i>Business Existing Facilities</i>	
4.19	SUMMARY	93
4.20	END USE BREAKDOWN	94
4.21	TOTAL RESOURCE BENEFITS	95

<i>Residential New Construction</i>		
4.22	SUMMARY	96
4.23	END USE BREAKDOWN	97
4.24	TOTAL RESOURCE BENEFITS	98
<i>Efficient Products</i>		
4.25	SUMMARY	99
4.26	END USE BREAKDOWN	100
4.27	TOTAL RESOURCE BENEFITS	101
<i>Existing Homes</i>		
4.28	SUMMARY	102
4.29	END USE BREAKDOWN	103
4.30	TOTAL RESOURCE BENEFITS	104
5.	SPECIAL PROGRAMS	105
5.1	CUSTOMER CREDIT PROGRAM	107
5.1.1	NARRATIVE	107
5.1.2	SUMMARY	108
5.1.3	END USE BREAKDOWN	109
5.1.4	TOTAL RESOURCE BENEFITS	110
5.2	GEOGRAPHIC TARGETING (ELECTRIC)	111
5.2.1	SUMMARY	112
5.2.2	SAINT ALBANS – END USE BREAKDOWN	113
6.	SUBMARKET RESOURCE ACQUISITION RESULTS—ELECTRIC ONLY	115
<i>Market Rate Multifamily New Construction</i>		
6.1	SUMMARY	117
6.2	END USE BREAKDOWN	118
<i>Market Rate Multifamily Retrofit</i>		
6.3	SUMMARY	119
6.4	END USE BREAKDOWN	120
<i>Low Income Multifamily New Construction and Retrofit</i>		
6.5	SUMMARY	121
6.6	END USE BREAKDOWN	122
<i>Low Income Multifamily New Construction</i>		
6.7	SUMMARY	123
6.8	END USE BREAKDOWN	124

	<i>Low Income Multifamily Retrofit</i>	
6.9	SUMMARY	125
6.10	END USE BREAKDOWN	126
	<i>Business Non-Farm Equipment Replacement</i>	
6.11	SUMMARY	127
6.12	END USE BREAKDOWN	128
	<i>Business Non-Farm Retrofit</i>	
6.13	SUMMARY	129
6.14	END USE BREAKDOWN	130
	<i>Market Rate Single Family</i>	
6.15	SUMMARY	131
6.16	END USE BREAKDOWN	132
	<i>Low Income Single Family</i>	
6.17	SUMMARY	133
6.18	END USE BREAKDOWN	134
	<i>Large Industrial</i>	
6.19	SUMMARY	135
6.20	END USE BREAKDOWN	136
7.	LIST OF SUPPORT DOCUMENTS, BY SERVICE	137
8.	DEFINITIONS AND END NOTES	139
8.1	DATA TABLES OVERVIEW	141
8.2	DEFINITIONS AND REPORT TEMPLATE	141
	ERRATUM	147

1. RESULTS OVERVIEW

1. RESULTS OVERVIEW

In 2014, Efficiency Vermont helped Vermonters take control of their energy costs while strengthening local economies, protecting the environment, and helping to ensure a secure energy future for the state. Efficiency Vermont designed and delivered comprehensive services to make it easy for Vermont businesses, institutions, households of all income levels, and communities to benefit from energy efficiency. These services helped Vermonters optimize their use of electricity, heating fuels, and process fuels at critical decision-making moments—regarding new construction, renovations, and equipment—and on an ongoing basis as they managed their energy use.

Efficiency Vermont's success in obtaining cost-effective energy savings continued to define efficiency as the cleanest, least expensive, and most locally acquired way to reduce Vermonters' energy costs and to meet the state's energy needs. In 2014, Efficiency Vermont:

- **Engaged and empowered Vermonters to take action** through the delivery of: 1) technical and financial information and analysis; 2) guidance about energy use and planning, efficient technologies, and building science to help Vermonters identify how their actions control their energy costs; and 3) resources to bring efficiency within financial reach for Vermonters of all income levels and to enable Vermonters in all regions of the state to make informed decisions about cost-effective efficiency investments to benefit their households, businesses, and communities.
- **Helped all Vermonters benefit from efficiency** through involvement in State, regional, and national efficiency planning, policy, programming, and research efforts that have a lasting, positive impact.
- **Made efficiency the simple choice, statewide**, by ensuring that high-quality, efficient technologies and approaches are available and knowledgeably installed and serviced through: 1) training and support for building retrofit and new construction designers and builders, as well as the contractors, retailers, installers, and service technicians to whom Vermonters turn for efficient services and products; and 2) maintenance of vital, long-term relationships with—and services to—equipment manufacturers, distributors, and suppliers.

The close of 2014 marked the completion of Efficiency Vermont's 2012–2014 performance period.¹ **Table 1** presents Efficiency Vermont's key results for the period.

¹ Efficiency Vermont's performance periods and savings goals are established with the Vermont Public Service Board, as discussed in Section 1.1.

Table 1. Key results for 2012–2014

	2012	2013	2014	2012–2014 Total
Energy savings in megawatt-hours (MWh)	110,179	85,582	91,146	286,907
Total Resource Benefits ²	\$118,358,445	\$83,830,177	\$82,101,439	\$284,290,061
U.S. tons of carbon dioxide emissions avoided through efficiency	800,000	690,000	700,000	2,190,000

The above results demonstrate solid performance for 2012–2014. As shown in **Table 2**, on the following page, Efficiency Vermont achieved 105% of its MWh goals and 93% of Total Resource Benefits goals for the 2012–2014 period. These results reflect the strength of the three-year performance period structure, enabling Efficiency Vermont to make strategic adjustments in anticipation of—or response to—market forces, in accordance with the best short- and long-term interests of ratepayers.

1.1 QUANTIFIABLE PERFORMANCE INDICATORS³

Efficiency Vermont continued to operate under a performance-based model. This model ties a significant portion of compensation to specific, aggressive goals in order to encourage high levels of performance, innovation, quality, and operational efficiency. These goals—for specified energy savings acquisitions, administrative performance elements, and other areas—are established with the Vermont Public Service Board (PSB) as Quantifiable Performance Indicators (QPIs) for a three-year performance period. The information in **Table 2** shows Efficiency Vermont’s QPI goals and results for the 2012–2014 performance period. These results were achieved within the budget parameters set by PSB.

² The measure of Total Resource Benefits is the present value of lifetime economic benefits resulting from resource-saving measures, including avoided costs of electricity, fossil fuels, and water. Results are shown in 2012 dollars.

³ Unless otherwise noted, results provided in the narrative section of this report include Customer Credit data, but do not include savings from efficiency measures installed via Burlington Electric Department, Vermont Gas Systems, the Self-Managed Energy Efficiency Program, or the Green Mountain Power Community Energy & Efficiency Development (CEED) Fund.

Table 2. Selected QPI results for the 2012–2014 performance period⁴

Key Quantifiable Performance Indicators (QPIs)	Funding Pool	2012–2014 Goals	2012–2014 Results	% of Goal Achieved
Electric savings (MWh)	Electric Efficiency Charge	274,000	286,907	105%
Total Resource Benefits	Electric Efficiency Charge	\$305,984,352	\$284,290,061	93%
Statewide summer peak kilowatt (kW) demand reduction	Electric Efficiency Charge	41,920	35,979	86%
Summer peak kW demand reduction in Geographic Targeting areas—Susie Wilson Road	Electric Efficiency Charge	1,570	1,626	104%
Summer peak kW demand reduction in Geographic Targeting areas—Saint Albans	Electric Efficiency Charge	1,800	2,086	116%
Ratio of gross electric benefits to spending	Electric Efficiency Charge	1.2	2.0	163%
Million British thermal unit (MMBtu) savings	Thermal Energy and Process Fuels Revenues	155,000	168,795	109%

Efficiency Vermont also engaged in efforts related to an Administrative QPI (AQPI) plan, requiring continual assessment and improvement of key business processes and service delivery. This plan establishes performance indicators under two main categories:

- Management Span of Control, intended to optimize administrative efficiencies while ensuring continued market impact and effectiveness
- Key Process Improvements, utilizing lean processes to provide value to customers by increasing efficiency

In 2014, Efficiency Vermont:

- Continued to exceed the target metric for Management Span of Control
- Continued to train and mentor staff on lean process improvements and engaged in value stream improvement activities for six key business processes:

⁴ The total electric and thermal energy and process fuel savings in this table may differ from the summed savings shown in the remainder of the narrative of this document, which reports the results of efforts funded by both the Energy Efficiency Charge and Thermal Energy and Process Fuels revenues.

- Prescriptive Process
- Metering Process
- Demand Resources Plan Proceeding
- Engineering Custom Project Process
- Home Performance with ENERGY STAR® Process
- Residential New Construction Process
- Received a review of the AQPI work by Navigant Consulting, on behalf of the Vermont Public Service Department, which determined that Efficiency Vermont had met all requirements of the AQPI.

Full results of QPI activities are provided in Section 3.3 through Section 3.6 of this report.

1.2 ECONOMIC BENEFITS

Efficiency Vermont continued to provide a solid economic value for Vermonters. One measure of this value can be seen in the benefit-to-cost ratio, which was 1.6 to 1. **Table 3** shows the factors that contributed to this ratio.

Table 3. Net lifetime economic value of electric and thermal energy efficiency investments in 2014

Benefits	\$93,900,000	Total Resource Benefits
	\$30,700,000	Operations and maintenance savings
	\$124,600,000	Total Benefits
Minus Costs	\$47,200,000	Efficiency Vermont resource investments
	\$30,800,000	Participant and third-party investments
	\$78,000,000	Total Costs
Equals Net Benefits	<u>\$46,600,000</u>	Net Lifetime Economic Value to Vermont

Total Resource Benefits in 2014 for Efficiency Vermont’s reporting categories:

Business New Construction	\$12.3 million
Existing Businesses	\$43.5 million
Retail Efficient Products	\$22.0 million
Residential New Construction	\$6.7 million
Existing Homes	\$9.4 million
Customer Credit	\$28 thousand

Efficiency Vermont delivered excellent value compared to the costs of other sources of energy:⁵

- Efficiency Vermont supplied electric efficiency expected to cost approximately 4.9 cents per kilowatt-hour (kWh) over the average lifetime of the efficiency measures installed in 2014. Taking into account participating customers' additional costs and savings, the levelized net resource cost of saved electric energy was 1.4 cents per kWh. By contrast, the cost of comparable electric supply was 8.3 cents per kWh.
- Efficiency Vermont's efforts that were focused on thermal energy and process fuels savings supplied efficiency in 2014 at \$15 per million British thermal units (MMBtu). Taking into account participating customers' additional costs and savings, the levelized net resource cost of fossil fuel saved through efficiency in 2014 was \$26 per MMBtu, whereas the avoided cost for that fuel was \$29 per MMBtu.⁶

Investments in energy efficiency continued to strengthen local businesses and to secure jobs. For example, 54 Vermont businesses, employing a combined 80 Home Performance with ENERGY STAR and Building Performance contractors, completed approximately 860 projects with a value of more than \$6.6 million in 2014, and more than 200 additional projects were expected to be completed in the first quarter of 2015. Efficiency Vermont also helped retailers statewide promote and sell efficient products that strengthened their bottom line. In 2014, Efficiency Vermont's retail partners sold more than 3,900 energy-efficient appliances, 16,000 consumer electronics products, and 717,000 lighting products.

1.3 ELECTRIC EFFICIENCY SAVINGS⁷

Energy savings resulting from electric efficiency measures installed in 2014 provided an estimated 1.6% of Vermont's overall electric energy requirements for the year. This percentage represents approximately \$10.2 million in retail value, annually, based on a rate of 13 cents per kWh.⁸ **Figure 1** and **Figure 2** show Vermont's history of energy savings from electric efficiency measures.

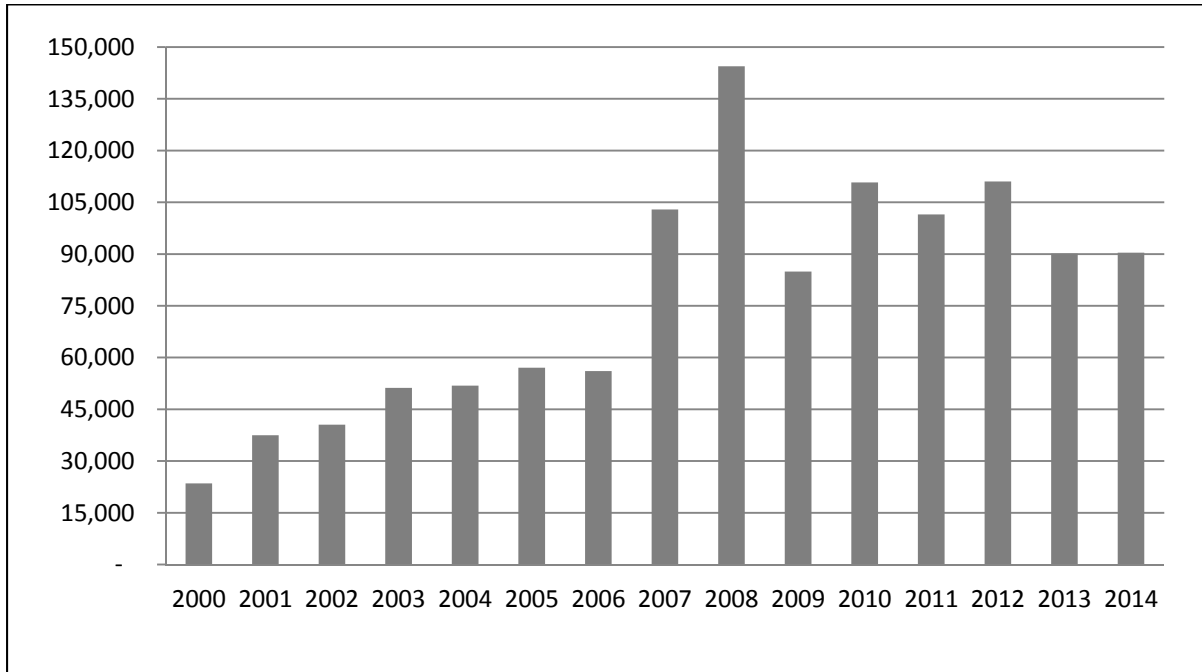
⁵ Numbers in the two ensuing bulleted items do not include Customer Credit. The "levelized net resource cost of saved electric energy" comprises: 1) Efficiency Vermont costs of delivery, plus customer and third-party contributions to measure costs, all adjusted to reflect the comparative risk adjustment of 10% adopted by the PSB in Docket 5270; and 2) costs or savings associated with fuel, water, and building operation and maintenance.

⁶ The levelized net resource cost of fossil fuel savings were off by a factor of 1,000 in the original filing of the Savings Claim Summary. See Erratum for additional details.

⁷ All data in Section 1.3 include savings from efficiency measures installed through Burlington Electric Department and the Green Mountain Power Community Energy & Efficiency Development (CEED), with the exception of Figure 1, which includes only Efficiency Vermont results.

⁸ This represents a blended average of commercial, industrial, and residential rates.

Figure 1. Efficiency Vermont annualized megawatt-hour savings



Cumulatively, efficiency measures installed since 2000 provided 967 gigawatt-hours (GWh)⁹ of savings for Vermont by the end of 2014. This figure represents 13.7% of the state’s estimated electric energy requirements, with a retail value of more than \$112 million, based on a rate of 13 cents per kWh. As the lowest-cost approach to fulfilling these requirements, energy efficiency significantly strengthens Vermont’s ability to limit energy cost increases and corresponding consumer rate hikes. This impact becomes greater as the share of energy needs supplied by efficiency increases. **Figure 3** shows the increasing percentage of Vermont’s annual electric needs met by efficiency savings.

Energy efficiency also provided significant benefits to Vermonters via avoided or deferred transmission and distribution investments. The combination of aggressive energy efficiency and local distributed generation in Vermont resulted in \$400 million¹⁰ in projects being deferred across the region overseen by the Independent System Operator–New England (ISO-NE). These savings benefited all ratepayers, whether or not they participated in Efficiency Vermont services.

⁹ This number is the sum of efficiency measures reported by Efficiency Vermont, Burlington Electric Department, Customer Credit, the Green Mountain Power (GMP) Energy Efficiency Fund, and the GMP Community Energy & Efficiency Development (CEED) Fund and accounts for measures that have expired over time.

¹⁰ ISO-NE deferred \$238 million in projects in 2011. Due to continued decline of load forecasts, ISO-NE deferred an additional \$161 million in projects in 2013.

Figure 2. Savings from efficiency as a percentage of statewide electric resource requirements

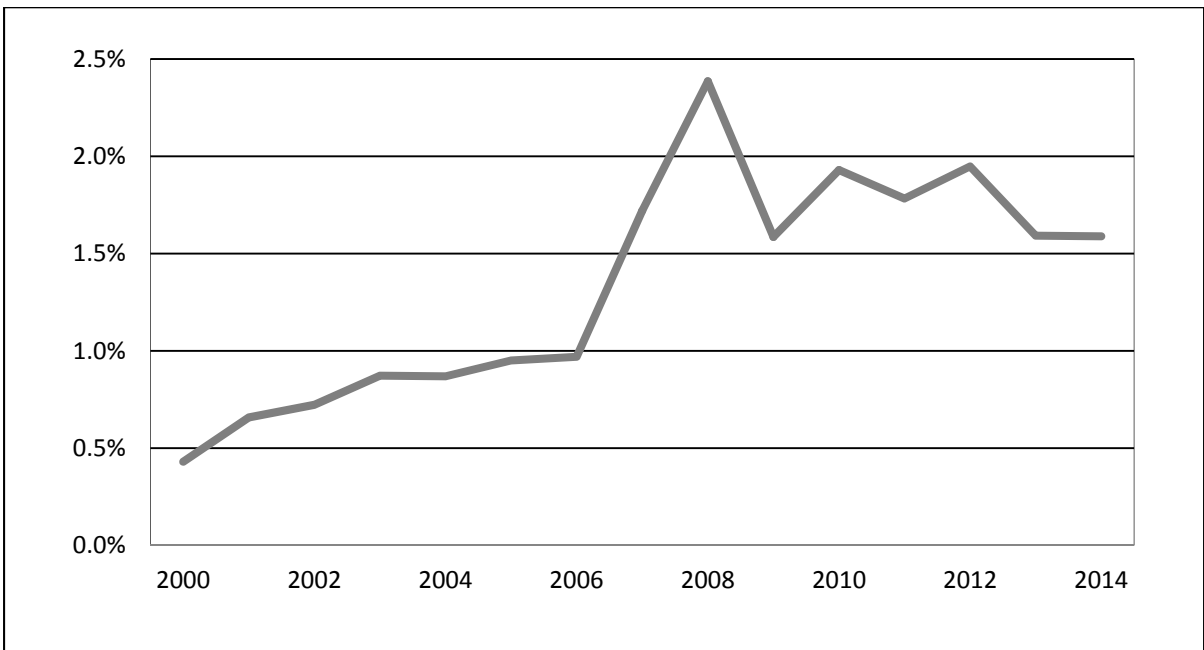
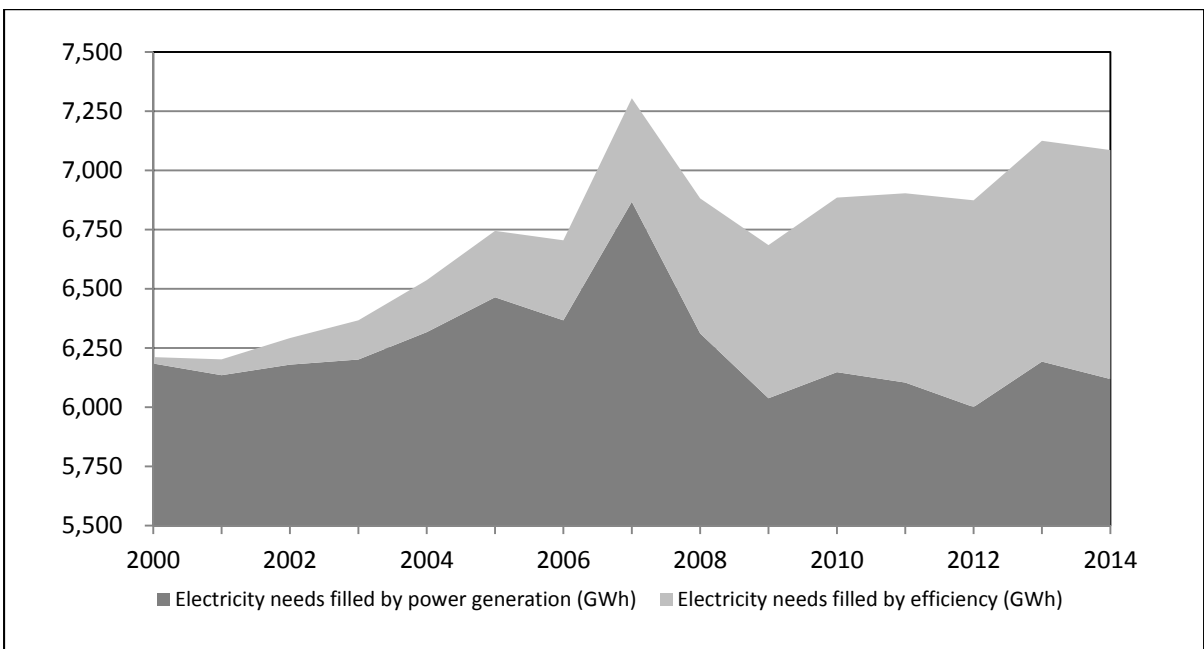


Figure 3. Cumulative impact of efficiency on growth in statewide annual electric supply requirements



In accordance with Vermont Public Service Board and statutory requirements, the funding source for Efficiency Vermont’s electric efficiency services was separate and distinct from funding sources for efficiency services related to thermal energy and process fuels (TEPF). Electric services were funded through the Energy Efficiency Charge, whereas TEPF services were funded by Vermont’s Regional Greenhouse Gas Initiative revenues and by revenues earned from meeting electric capacity commitments (Efficiency Vermont demand savings) bid into the regional grid’s Forward Capacity Market (FCM). The Efficiency Vermont administrator, the Vermont Energy Investment Corporation, bids these expected demand savings into the FCM on behalf of the State of Vermont. Efficiency Vermont ensured that, from the customer’s perspective, provision of services was seamless, regardless of the funding source. In 2014, 11% of Efficiency Vermont spending drew from TEPF funding sources. More detailed budget information is provided in Section 3.2.

1.4 THERMAL ENERGY AND PROCESS FUELS (TEPF) EFFICIENCY SAVINGS¹¹

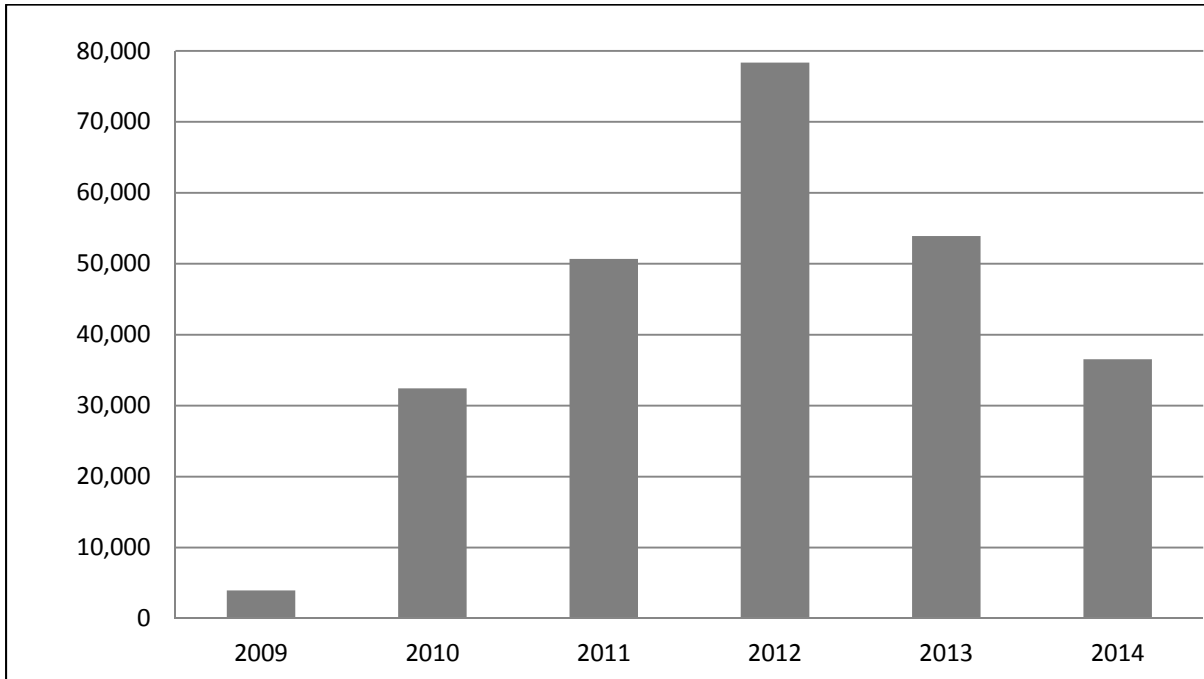
Efficiency Vermont provided both TEPF efficiency services and electric efficiency services, helping Vermont homes and businesses with a comprehensive approach to energy savings. Savings in 2014 from TEPF-funded services totaled approximately 36,500 MMBtu, acquired through the following:

- Services to Efficiency Vermont’s statewide network of Home Performance with ENERGY STAR contractors, offering energy efficiency home improvements
- Technical information and financial incentives for high-efficiency residential and commercial heating equipment, including biomass systems and certain efficient oil and propane systems
- Partnerships with fuel dealers, heating contractors, and hot water system installers to enable them to provide specified services to Vermont homeowners regarding efficient heating, ventilation, and air conditioning (HVAC) systems
- Thermal-shell improvements for small businesses and private multifamily property owners through Efficiency Vermont’s Building Performance service
- Coordination with affordable housing providers, the Vermont Fuel Efficiency Partnership, and Vermont’s Weatherization Program to offer comprehensive multifamily services to low-income households
- Services promoting the installation of recommended efficient non-electric commercial kitchen equipment
- Thermal project partnerships with Burlington Electric Department, Vermont Gas Systems, the Green Mountain Power Community Energy & Efficiency Development (CEED) Fund, and NeighborWorks® of Western Vermont

Figure 4 shows Efficiency Vermont’s annual thermal energy and process fuels savings.

¹¹ Savings data in this section do not include Customer Credit.

Figure 4. Efficiency Vermont’s annual thermal energy and process fuels savings, in MMBtu



At the close of 2014, Efficiency Vermont had reached 109% of its target for cumulative TEPF savings for the 2012–2014 performance period.

Efficiency Vermont’s TEPF services were aligned with requirements specified by the PSB and also supported Vermont State energy policy goals as outlined in Section 581 of Act 92 (the Vermont Energy Efficiency and Affordability Act, enacted in 2008) and the 2011 Vermont Comprehensive Energy Plan. A key provision of Act 92 is improving the energy fitness of 80,000 homes by 2020. Although TEPF funding levels were not sufficient on their own to achieve these numbers, Efficiency Vermont continued to design services to be scalable to levels consistent with these public policy goals.

1.5 ENVIRONMENTAL BENEFITS

In addition to energy savings and economic benefits, Efficiency Vermont’s performance in 2014 provided benefits for Vermont’s environment. By lowering the use of fossil fuels for electricity generation, heating, and industrial processing equipment, energy efficiency prevents associated emissions. Efficiency’s role in pollution prevention is of particular note in times of peak electricity demand, when additional fossil fuel-fired power plants are brought on line. In these times, efficiency measures, such as the use of efficient air conditioners instead of inefficient models during a heat wave, provide their optimal environmental benefit. **Table 4** shows avoided pollutants over the lifetime of efficiency actions taken in each performance period year.

Table 4. Avoided pollutants over the lifetime of 2012–2014 measures, in U.S. tons

	Reduction		
Pollutant	2012	2013	2014
Carbon dioxide	800,000	690,000	700,000
Nitrogen oxides	86	69	76
Sulfur oxides	31	25	27

2. 2014 ACTIVITIES

2. 2014 ACTIVITIES

Efficiency Vermont designed and delivered customer-focused services to make it as simple as possible for all Vermonters to obtain the benefits of comprehensive energy efficiency. Central to these services were Efficiency Vermont's objective guidance and technical expertise.

2.1 SERVICES TO BUSINESS, INSTITUTIONAL & MUNICIPAL FACILITIES

Vermont businesses, institutions, and municipalities working with Efficiency Vermont in 2014 saved an approximate total of 55,800 MWh and 44,300 MMBtu from 2,980 projects, delivering Total Resource Benefits of \$55.8 million to approximately 2,025 customers. The average anticipated return on investment for commercial efficiency improvements in 2014 was 46%.

Efficiency Vermont achieved the above results through activities in support of the construction of new high-performance commercial buildings (discussed in Section 2.4.1) and in service to existing commercial facilities. Highlights of efforts in existing buildings follow here.

2.1.1 VERMONT'S LARGEST ENERGY USERS

To serve the state's largest energy users—defined by their use of more than 500 MWh of electricity per year—Efficiency Vermont continued to build upon its customized approach. Efforts included the following.

Account Management

Designated Efficiency Vermont staff with specialized knowledge of working with large energy users established and maintained long-term, proactive professional relationships with individual businesses. To design and deliver effective, customized services, account managers maintained a deep understanding of each company's priorities and challenges. Efficiency Vermont helped businesses create comprehensive portfolios of savings opportunities, provided technical and financial analysis, delivered guidance in developing energy savings plans, and assisted customers in assessing and utilizing energy usage data. In addition to engaging in ongoing work with individual customers in 2014, Efficiency Vermont hosted three Best Practices Exchange events, at locations throughout the state, and published quarterly *Efficiency Connections* e-newsletters with targeted information for this market.

Such approaches aimed to best position businesses to: 1) deepen savings; 2) successfully complete multiple projects over time; 3) utilize best practices in energy use management; and 4) engage in continuous energy improvement, which helps customers look holistically

at their energy use to obtain sustainable and verifiable energy savings. In 2014, Efficiency Vermont served more than 200 businesses through Account Management, garnering a combined expected annual savings of more than 30,500 MWh from measures completed in 2014.

Industrial Peak Initiative

In 2014, Efficiency Vermont launched an effort aimed at helping an initial group of 19 large manufacturers reduce their peak electric use and associated utility charges. The initiative featured three key components: 1) customized analysis of energy use through smart meter data, submetering, and custom analytics tools developed by Efficiency Vermont; 2) tools that allow manufacturers to predict the approach of their peak demand and when they need to take action; and 3) support designed to help customers reduce peak demand use and costs over time.

2.1.2 SMALL AND MEDIUM-SIZED BUSINESSES

Efficiency Vermont continued to design and implement services to meet the particular needs of businesses using up to 500 MWh per year that are not served under Efficiency Vermont's targeted market initiatives (discussed in Section 2.1.3). In 2014, Efficiency Vermont engaged in the following activities:

- Provided thermal efficiency services through Building Performance. This service, modeled after Home Performance with ENERGY STAR, provides incentives to qualifying small businesses and rental property owners completing efficiency improvements with certified Building Performance contractors.
- Initiated outreach to a targeted group of businesses to offer services through Account Management; businesses of focus were car dealerships, nursing home/personal care facilities, fitness/recreation centers, and light industrial facilities.
- Created an online feature to enable businesses to apply for prescriptive rebates through www.encyvermont.com.
- Delivered technical guidance and education about efficiency opportunities, technologies, and financial solutions through direct customer interaction and strategic outreach via numerous avenues, including business media placements, chambers of commerce, business associations, and utility partners.
- Launched an outreach campaign providing information on saving energy, via direct mail, media advertising, events, partner interactions, and www.encyvermont.com.
- Conducted phone consultations through the Customer Support team, designed to help small businesses identify savings opportunities.
- Engaged customers through the Efficiency Excellence Network of building improvement contractors, fuel dealers, electricians, and HVAC contractors (discussed in Section 2.4.3).

- Applied 2012–2013 industrial market submetering research to initiate development of software designed to streamline the submetering process, in order to help customers obtain better data about their buildings’ energy use.
- Developed a weather normalization tool to provide Efficiency Vermont with an automated, streamlined approach to understanding weather-driven components of business customers’ energy use.

2.1.3 TARGETED MARKETS

Efficiency Vermont continued to implement targeted initiatives—each with its particular approaches, energy-saving measures, and incentives—to address the priorities, challenges, and motivations of specific markets. These markets were agriculture, colleges & universities, commercial real estate, convenience stores, grocery stores, hospitals, K–12 schools, lodging facilities, restaurants, retail stores, ski areas, State buildings, and water & wastewater facilities.

Highlights of activities in selected targeted markets follow. These highlights provide a glimpse of 2014-specific activities that were undertaken concurrently with ongoing targeted services to each market.

Agriculture

Efficiency Vermont:

- Launched a multifaceted outreach campaign promoting bonus rebates for process equipment, ventilation, and lighting. Efforts included visits to vendors and targeted medium-sized and large farms, phone follow up with farmers with completed projects, media editorial placements, and events. The campaign resulted in multiple projects and substantial interest.
- Maintained a visible presence and disseminated information at multiple events, including the Vermont Farm Show, the Vermont Dairy Producers Conference, the Northeast Organic Farming Association of Vermont’s winter conference, the St. Albans Co-op Annual Meeting, the Vermont Dairy Industry Association Conference, the 2014 Vermont Agriculture Hall of Fame induction event, and the Food Systems Summit at the University of Vermont (UVM).
- Through a research-and-development project with UVM Extension, implemented refrigeration efficiency measures for vegetable growers and gathered information useful to inform 2015 programs.
- Worked with a manufacturer to ensure that all high-performance T8 fixtures sold to Vermont farms contained qualifying lamps and ballasts.
- Established a strong relationship with Vermont Farm to Plate and interacted with the Vermont Farm & Forest Viability Program to connect Efficiency Vermont services with those who manage consulting programs for farmers.

Colleges & Universities

Efficiency Vermont helped higher-education institutions using green revolving funds (GRF) to finance campus energy efficiency projects. As noted in Section 2.4.7, Efficiency Vermont's GRF efforts are among those that leverage a modest amount of Energy Efficiency Utility resources to draw higher amounts of new project funding without additional ratepayer investment. In addition, Efficiency Vermont hosted a meeting of the Vermont Campus Sustainability Network and facilitated discussions about cross-departmental teaming as a best practice for developing and executing cohesive and well-informed energy management practices. Four campuses have committed to achieve carbon neutrality within the next 10 years. This commitment requires action on energy efficiency, solid waste management, and purchasing of carbon offsets for remaining emissions.

Convenience Stores

Through an Account Management approach, Efficiency Vermont engaged with decision makers and built upon strong relationships in 2014. For the second year, to encourage multisite projects, Efficiency Vermont established a multisite project completion bonus incentive for the state's nine chain stores owning between 30 and 50 stores each. The offering provided a 20% bonus for chains completing projects in six or more stores by the end of the calendar year. A notable success of the offering was the achievement of upgrades to light-emitting diode (LED) lighting across multiple sites, including refrigerated case lights, canopy lights, and indoor overhead lighting. The indoor overhead LED was a newer measure for this market, which benefits significantly from this technology due to long store hours.

Grocery Stores

To find deeper and more comprehensive savings and to increase participation, Efficiency Vermont launched the Grocery Audit Initiative (GAI), which was implemented by a contractor. The GAI measured and analyzed store energy use for all systems and their interactive effects. The effort was implemented to model a continuous engagement process, which Efficiency Vermont will use to help customers with ongoing improvements and to further train contractors serving this market. A total of 36 stores were audited by year-end, resulting in 33 projects. Efficiency Vermont also maintained a presence and provided sponsorship at events of the Vermont Retail & Grocers Association, including its Convention and Expo, a trade show attended by 500-plus grocers and suppliers.

Hospitals

Efficiency Vermont worked in partnership with the Vermont Association of Hospitals and Health Systems to help each hospital in the state create an Energy Action Plan (EAP). The EAP is a requirement of Vermont Act 79 and is a key component of the Healthier Hospitals Initiative, in which all Vermont hospitals enrolled in 2013 due to Efficiency Vermont's efforts. Efficiency Vermont also launched two research projects in 2014: 1) a study to establish current building performance, savings potential, and needed investment to reach

ENERGY STAR level of performance for Vermont’s hospitals; and 2) a research project to better understand barriers faced by this market’s key players, including facility managers and engineering and architecture firms.

K–12 Schools

In 2014, Efficiency Vermont completed the nation’s first voluntary statewide K–12 energy benchmarking effort, in coordination with the Vermont Superintendents Association’s School Energy Management Program (SEMP). Preliminary results showed that Vermont schools score above the national average in energy efficiency. Efficiency Vermont continued to cost share the ENERGY STAR certification process for schools; 21 schools earned certification. Efficiency Vermont also served the market through the Energy Literacy Project, discussed in Section 2.5.1; the Evergreen Loan Fund, described in Section 2.4.7; and the RELIGHT Program, supporting the use of lighting design professionals to maximize energy savings in lighting projects.

Ski Areas

Efficiency Vermont launched a limited-time initiative—targeting all Vermont ski areas—to replace inefficient ground snow guns with efficient equipment without depleting inventory or compromising quality. Through this initiative, Efficiency Vermont offered technical assistance and aggressive incentives, as well as coordination with a waste collection company to pick up old snow guns and sell them on the scrap market. Proceeds from sales were donated to learn-to-ski programs offered by the Vermont Ski Areas Association (VSAA). Efficiency Vermont also conducted snow gun testing to help resorts identify efficient snowmaking equipment when making capital project investments, and hosted Vermont’s first ski areas Best Practices Exchange, which was attended by 50 ski resort leaders. Also in 2014, Efficiency Vermont attended, presented, and/or exhibited at events of the National Ski Areas Association and the VSAA.

State Buildings

Efficiency Vermont worked with the Vermont State treasurer, the Vermont Department of Buildings and General Services (BGS), and State legislators to help develop a new \$8 million revolving loan fund for energy improvements to State government buildings. Efficiency Vermont supported the BGS in the development of a plan to implement the State’s Energy Management Plan and to deploy the new financing mechanism. Efficiency Vermont also completed a statewide project to benchmark buildings in this market, to enable the BGS to assess its building stock for prioritization of energy efficiency projects. In addition, Efficiency Vermont worked with BGS to identify the highest-performing buildings, which will be reviewed for possible ENERGY STAR certification.

Water & Wastewater Treatment Facilities

Efficiency Vermont launched the Municipal Wastewater Treatment Facility Efficiency Upgrade initiative, providing energy audits, evaluation of facility efficiency, preliminary

design review, financial analysis, and financial support. Forty facilities signed up for the program in 2014, and a total of 33 audits were completed. Efficiency Vermont also worked with the Vermont Department of Environmental Conservation to develop an agreement through which Efficiency Vermont will conduct efficiency reviews of all major facility upgrades. In 2014, Efficiency Vermont held two roundtable meetings with a total of 50 facility representatives.

2.1.4 KEY COMMERCIAL TECHNOLOGIES

Efficiency Vermont continued to maintain awareness of efficient technologies that hold the potential to provide significant benefits to Vermont businesses. Efficiency Vermont focused also on approaches with both commercial and residential applications, such as heat pump, biomass, and solar technologies. In addition to energy savings, benefits from these technologies include greater building occupant comfort and safety, increased sales and customer loyalty, improved working and learning environments, better indoor air and lighting quality, lower tenant turnover, greater building durability, lower maintenance costs, and higher property resale value. To increase the adoption of quality technologies in a wide range of applications, Efficiency Vermont engaged in the below activities.

Commercial Lighting

Efficient lighting technologies and design continued to offer significant savings opportunities owing to their broad applicability across commercial markets. Efficiency Vermont engaged in partnerships with lighting distributors and manufacturers, monitored and evaluated emerging lighting technologies (for possible inclusion in services), and provided technical guidance and promotions regarding a range of approaches, including the following:

- Efficient technologies in place of standard T8 lighting systems
- Efficient exterior lighting, including municipal street lighting
- Lighting controls
- Integral lighting systems that incorporate onboard controls with efficient lighting fixtures
- LEDs in appropriate applications
- Partnerships with lighting design professionals to maximize savings through efficient lighting design

In 2014, Efficiency Vermont undertook the following:

- Helped 22 Vermont municipalities eliminate unnecessary street lighting and convert remaining fixtures to LEDs, and signed on 23 municipalities to make these improvements in 2015
- Initiated a bonus rebate for the 2014 installation of select LED lighting fixtures, along with lighting controls
- Launched the SMARTLIGHT Summer Challenge, offering rewards to distributors exceeding their previous summer's sales

- Increased numbers of lighting distributors and designers participating in Efficiency Vermont lighting programs
- Participated and/or presented at efforts coordinated by the Lighting Energy Alliance, the Philips Lighting Application Center, and the Lightfair International conference
- Hosted the Eastern Lighting Peer Exchange in partnership with the Burlington Electric Department
- Developed a co-promotion model with LED fixture manufacturers to increase the availability of selected fixtures in Vermont, motivate distributors to stock them, and extend Efficiency Vermont rebate dollars by leveraging a manufacturer match
- Participated in the DesignLights Consortium (DLC) long-term plan committee, to provide advice regarding the scope, structure, and strategy for DLC over the next five years
- Participated in the Northeast Energy Efficiency Partnerships (NEEP) Regional Commercial Building Lighting Controls and Advanced Lighting Controls Project
- Launched the Efficiency Excellence Network of contractors, including lighting contractors, as discussed in Section 2.4.3

Heating, Ventilation, and Air Conditioning (HVAC)

Efficiency Vermont's 2014 efforts included both direct customer and upstream partnering activities designed to increase the installation of high-efficiency equipment and the optimization of entire systems. Activity highlights:

- Launched an enhanced high-performance circulator pump (HPCP) initiative—paying distributors to bring efficient pump prices in line with traditional units—with five manufacturers, 10 distributors, and 50 new eligible products
- Implemented large-scale metering, data collection, and analysis of HPCP installations in the fourth quarter, following an informative, smaller effort earlier in the year
- Launched a heat pump water heater initiative with five manufacturers and eight distributors
- Rolled out a cold-climate heat pump initiative, with nine distributors and three manufacturers
- Launched a stand-alone oil and liquefied petroleum (LP) gas heating system rebate
- Increased the replacement of commercial rooftop air-conditioning units with equipment built to U.S. Department of Energy high-efficiency standards
- Engaged in efforts focused on biomass and solar hot water technologies

A significant focus in 2014 was on building and strengthening relationships with an increasing number of manufacturers and distributors of efficient technologies. Further discussion of supply chain efforts can be found in Section 2.4.4 of this report.

Combined Heat and Power (CHP)

To promote the use of best practices and best-in-class CHP systems, Efficiency Vermont engaged operators of wastewater treatment, agricultural, industrial, and institutional

facilities that have: 1) on-site electricity generation capability; and 2) substantial heating needs. Efficiency Vermont provided financial support for third-party cost-benefit CHP feasibility studies, and for CHP systems meeting requirements established by the PSB.

Industrial Process Equipment

Efficiency Vermont continued to work with Vermont manufacturers and other businesses to identify improvements for pumps, motor controls, aeration technologies, and such systems as compressed air and process heating and cooling. In 2014, Efficiency Vermont launched a pay-for-performance initiative for Vermont's largest compressed air users, providing (through a competitively selected contractor) plant audits, data collection on compressed air and vacuum systems, and management of energy efficiency measure implementation. Efficiency Vermont also piloted a method of reaching smaller businesses (such as in the granite industry) through trade organizations, by which multiple sites can be "bundled" to make audits cost effective.

2.2 SERVICES TO HOMES

2.2.1 EXISTING AND NEW LOW-INCOME HOUSING

Efficiency Vermont undertook its efforts in service to low-income households in close collaboration with long-standing partners: 1) low-income housing and service providers, including the Vermont Foodbank; 2) agencies of Vermont's Weatherization Program; 3) affordable housing funders, including the Vermont Housing and Conservation Board (VHCB) and the Vermont Housing Finance Agency (VHFA); and 4) multifamily housing developers, including Housing Vermont. In 2014, Efficiency Vermont engaged in the following:

- Launched a new effort targeting low-income households that use more than 10,000 kWh per year, reaching out initially to households enrolled in Green Mountain Power's Energy Assistance Program. In addition to receiving installation of efficient products, homes using electricity for space or water heating were evaluated for their suitability for future receipt of heat pump equipment.
- Added LED lighting to the list of products installed in homes.
- Continued to provide training and quality assurance services for the state's weatherization agencies.
- Conducted outreach to low-income partners and mobile home parks to promote high-performance modular homes.
- Held three focus groups gathering input from owners of mobile homes to improve the Mobile Home Replacement Service and the promotion of net-zero homes in Vermont.
- Participated in a U.S. Department of Energy stakeholder group tasked with improving the baseline efficiency of manufactured homes across the country.

- Presented at the national Energy and Utility Affordability Conference about low-income efficiency program screening and challenges for thermal affordability in Vermont.
- Continued to coordinate with the Central Vermont Community Action Council in support of the Vermont Fuel Efficiency Partnership to improve the energy efficiency of multifamily buildings housing low-income Vermonters.
- Maintained a service to replace inefficient refrigerators with new, efficient units in partnership with the Vermont Department of Health’s Women, Infants, and Children nutrition program.
- Coordinated with multiple partner organizations in the distribution of efficient lighting. Partners included the Boys & Girls Clubs, Franklin County Caring Communities, King Street Center, OUR House of Central Vermont, Salvation Army, Habitat for Humanity ReStore, Vermont Adult Learning, Vermont Family Network, and Vermont Foodbank.
- Launched a Nest thermostat pilot initiative serving multifamily low-income homes as well as market rate homes, as described below under “Single-Family Homes.”

2.2.2 EXISTING MARKET-RATE HOMES

In 2014, in an effort to increase participation and efficiency awareness as well as to reach underserved populations, Efficiency Vermont distributed energy savings kits to approximately 11,600 single-family and multifamily homes. Each kit included a compact fluorescent lightbulb (CFL), an LED light bulb, an advanced power strip, a water-saving device, and information on rebates and on ways to save energy. A survey was also included, to capture data on resulting energy-saving actions. Efficiency Vermont signed up interested parties through community events, www.encyvermont.com, the toll-free Customer Support phone line, and direct-mail outreach in underserved counties.

Also in 2014, Efficiency Vermont utilized historic usage data to identify and target services to homes using electric-powered space heating and launched two data-driven services to customers in Green Mountain Power territory: 1) customized Home Energy Reports; and 2) access to usage data, analysis, and guidance through a secure portal on www.encyvermont.com.

Single-Family Homes

Efficiency Vermont continued to help homeowners make comprehensive, efficient home improvements through its Home Performance with ENERGY STAR program. Efficiency Vermont continued to provide mentoring and technical support to Building Performance Institute (BPI) certified contractors. Efficiency Vermont also offered financial incentives to homeowners who completed projects with BPI-certified contractors, and engaged in program promotions. Efficiency Vermont’s efforts in support of Vermont BPI contractors are discussed in greater depth in Section 2.4.3.

In 2014, Efficiency Vermont initiated efforts as the U.S. Department of Energy's Vermont Home Energy Score Partner with the formal launch of the Vermont Home Energy Labeling Advisory Board. This board will provide input, oversight, and guidance for Efficiency Vermont's implementation of the statewide home energy labeling program. The advisory board includes Vermont Gas Systems, Burlington Electric Department, Office of Economic Opportunity, weatherization agencies, NeighborWorks® of Western Vermont, Building Performance Professionals Association, and real estate industry representatives.

Efficiency Vermont also expanded on research begun in 2012 regarding Nest thermostats (designed to save energy by learning and automating use patterns) with a 2014 pilot initiative, in collaboration with Vermont Gas Systems and several fuel dealers, investigating the device's energy-saving potential in single-family market rate homes as well as in multifamily low-income homes.

Multifamily Homes

To educate, motivate, and assist decision makers connected to market-rate multifamily housing, Efficiency Vermont provided services targeting these properties' owners. Services included:

- Technical and financial support for energy audits and comprehensive building upgrades delivered by contractors trained through Efficiency Vermont's Building Performance program
- Prescriptive rebates for efficient equipment
- A new electric efficiency track for projects that don't entail comprehensive building upgrades
- Dissemination of information to property owners about efficient technologies and available services through the Vermont Apartment Owners Association and the Vermont Rental Property Owners Association

2.3 SERVICES TO GEOGRAPHICALLY TARGETED AREAS

Efficiency Vermont provided services targeting parts of Saint Albans identified as having transmission and distribution capacity constraints. Undertaken to benefit all Vermont ratepayers, these services focused on highly cost-effective reduction of system peak capacity demands and were intended to help postpone or prevent the need for system infrastructure upgrades.

Efficiency Vermont obtained dramatic results in Saint Albans in 2014, with nearly 30% greater summer peak demand savings over 2013 and the achievement of more than 100% of the three-year QPI target for summer peak demand reduction. Efficiency Vermont achieved these targets by implementing a variety of initiatives rather than relying on a single strategy. Key approaches included large-customer Account Management, enhanced engagement with small and medium-sized businesses, intensified efficient product efforts, increased low-income services, outreach to farms, and coordination with municipalities and community groups. Services encouraged efficient approaches to new construction, retrofits, and equipment replacement, including a focus on LED lighting.

2.4 ACTIVITIES IN SERVICE TO MULTIPLE CUSTOMER SECTORS

While targeting specific markets, as described above in Sections 2.1 through 2.3, Efficiency Vermont also provided services that had an impact on multiple sectors. A key element of this cross-sector approach was Efficiency Vermont's ongoing partnering with the businesses that Vermonters turn to for efficient products and services. These partnerships, although not always evident to the general public, have a profound impact on Vermonters' ability to lower energy use in their homes and places of business. Efforts made with these providers included coordinated planning, program creation, information exchange, training, financial incentives, and cooperative advertising. These approaches enabled Vermont homes and businesses to have access to a valuable network of knowledgeable providers while strengthening these providers' bottom line.

2.4.1 NEW CONSTRUCTION SERVICES

Efficiency Vermont's support for the creation of efficient new buildings continued to focus primarily on the professionals engaged in architectural design and construction. These individuals included architects, engineers, specialty design service providers, and practitioners of construction trades. Efficiency Vermont also engaged in efforts targeting developers, equipment suppliers, installation contractors, commissioning agents, appraisers, lenders, and real estate agents, as well as certain building owners as key members of project teams. Interactions with such building owners were typically in regard to construction undertaken by institutions, by government agencies, and by large businesses with multiple buildings. In addition, Efficiency Vermont recognized and publicized exceptional achievement by design and construction practitioners through its annual *Best of the Best* awards for new high-performance buildings and homes.

Business New Construction

Efficiency Vermont maintained its delivery of services to encourage a comprehensive approach to designing efficient buildings, integrating energy efficiency decisions into the process and including energy goals as part of the overall construction strategy from the earliest stages of a project. Efforts included:

- Technical assistance through the design, construction, and post-construction phases
- Market outreach and education through industry associations and events
- Prescriptive and customized financial incentives for efficient approaches, equipment, and building operation systems
- Post-occupancy operations and energy performance tracking
- Post-construction building owner engagement to identify ongoing and future savings opportunities for existing and new buildings
- Leveraging of customer interest in green building, energy performance, and green rating systems such as Leadership in Energy and Environmental Design (LEED)
- Assistance in the design of buildings capable of achieving net-zero energy use, to acquire savings as well as to increase interest in building to this standard by raising awareness and providing education
- Continued partnerships with national, regional, and international organizations, such as the American Council for an Energy-Efficient Economy, the American Institute of Architects, the Appraisal Institute, the Consortium for Energy Efficiency (CEE), the Institute for Market Transformation, the International Code Council, the New Buildings Institute, Northeast Energy Efficiency Partnerships, and the U.S. Green Building Council to promote high performance in new commercial construction

In 2014, Efficiency Vermont:

- Implemented a net-zero pilot initiative that drew interest and provided useful information about the strength of the initiative design as well as insights into beneficial adjustments
- Hosted the Design Professionals Advisory Group, created to provide critical feedback on Efficiency Vermont's services, gain insight into industry trends and needs, and better understand the opportunities for partnering with design professionals to advance high-performance design and construction best practices
- Collaborated with the New Buildings Institute, National Grid, and Building Green to host Net Zero Northeast, an all-day summit of more than 100 design professionals, building owners, community planners, and others at the Vermont Statehouse
- Sponsored the Appraisal Institute's green building appraisal training for commercial appraisers
- Sponsored and exhibited at:
 - The Vermont Green Building Network regional summit of the U.S. Green Building Council
 - The ACX Architecture and Construction Expo presented jointly by the Vermont chapter of the American Institute of Architects (AIA-VT) and Construction Specifications Institute
 - An AIA-VT architects seminar

New Homes

In 2014, to help meet the range of efficiency aims that Vermonters have for their new homes, Efficiency Vermont offered technical guidance, financial assistance, and energy rating services in support of the construction of homes meeting specific levels of energy performance:

- Energy Code Plus: Homes exceeding Vermont code requirements for energy efficiency and receiving certification for Home Energy Rating System and Vermont Residential Building Energy Standards.
- Vermont ENERGY STAR Homes: Homes achieving national ENERGY STAR Home certification and meeting elevated criteria for thermal and electric efficiency and water management.
- High-Performance Homes: Homes reaching a high level of energy efficiency that makes them well suited to achieve net-zero energy use with the incorporation of renewables. Included in this tier was the High-Performance Modular Homes service, targeting low-income homeowners.

This tiered approach assisted builders and owner-builders in meeting and exceeding Vermont Residential Building Energy Standards while promoting low-load and net-zero building practices. Also in 2014, Efficiency Vermont:

- Launched a new electric efficiency track for market rate multifamily construction.
- Saw Vermont ranked first in the country in average overall efficiency for homes with energy ratings; the nation's average efficiency rating was approximately 10% lower than Vermont's.
- Created a three-part series of online instructional videos presenting best practices in new construction.
- Hosted a ventilation training for contractors.
- Upon completion of the initial round of Value Stream Mapping workgroups, improved processes for customer outreach, new-participant welcome calls, tracking of why projects fail, and quality assurance.
- Determined that less stringent standards for windows, flat attic insulation, and below-grade foundation insulation result in lower building costs with minimal reduction in energy performance. This determination was made through energy modeling and analysis of home performance data acquired through monitors in place in high-performance homes since 2012.

New Construction Information and Education

Efficiency Vermont continued to provide energy efficiency information and education to professionals and tradespeople involved in new construction and renovation projects through the Energy Code Assistance Center and the annual Better Buildings by Design Conference. Discussion of these efforts can be found in Section 2.5.1.

2.4.2 RETAIL EFFICIENT PRODUCT SERVICES

In 2014, Efficiency Vermont provided support for a range of consumer products that met or exceeded efficiency standards set by the U.S. Department of Energy's ENERGY STAR program, including lighting, appliances, air conditioners, dehumidifiers, pool pumps, and electronics. Efficiency Vermont also provided services to encourage buyers of heat pump technologies to purchase efficient models; activities in regard to heat pump equipment with residential and commercial uses are discussed in Section 2.1.4.

Efficiency Vermont designed its services to motivate purchases by increasing efficiency knowledge and reducing the retail cost of efficient products. Support took the form of rebates, buy-downs and markdowns at the manufacturer and retail level, point-of-purchase information, advertising, promotional and public information activities, and the targeted provision of "efficiency kits" to introduce customers to specific efficient products. An essential element of Efficiency Vermont's efforts continued to be services to retailers and upstream partners in the product supply chain to ensure the availability of high-quality efficient products in Vermont stores.

In 2014, Efficiency Vermont:

- Was named the U.S. Environmental Protection Agency (EPA) 2014 ENERGY STAR Partner of the Year for Program Delivery for its retail efficient products services
- Completed the first phases of an internal assessment of the Account Management process for this market, to increase efficiency
- Joined the EPA's Retail Products Platform core team, and was elected as lead on the implementation team, to help design a midstream pilot effort
- Participated in monthly NEEP and CEE product category meetings
- Attended the 2014 EPA ENERGY STAR Partner Meeting, which included meetings with key manufacturing and retail partners

Activities in support of specific products follow.

Lighting

In 2014, Efficiency Vermont:

- Established aggressive pricing for LED decorative lights and reflectors
- Launched the "Saving is Always in Season" lighting campaign at store shelves, on radio, on TV, and at events; the campaign was a result of customer survey work
- Released a survey to collect feedback from retailers and manufacturers
- Completed research and design of an LED market strategy incorporating customer, retailer, and manufacturer survey results
- Joined the NEEP Residential Lighting Strategy stakeholder group and participated in the NEEP Residential Lighting Workshop

Appliances

In 2014, Efficiency Vermont:

- Provided consumers with the ability to apply for rebates online
- Launched rebates for dryers at two tiers of efficiency
- Conducted a metering study in the NEEP dryer baseline evaluation in Vermont
- Rolled out an early-retirement pilot initiative for air conditioners
- Reactivated a second-refrigerator retirement program
- Participated in the Northwest Energy Efficiency Alliance and NEEP heat pump water heater working groups
- Conducted an appliance and consumer electronics retailer shelf survey

Consumer Electronics

In addition to continuing its efforts to encourage the use of efficient electronics, Efficiency Vermont:

- Engaged with industry contacts about home energy management systems and the potential of whole home automation
- Attended the Consumer Electronics Show and held meetings with key appliance and consumer electronics manufacturers and utility partners
- Participated in working groups with:
 - NEEP and CEE regarding home energy management systems
 - CEE regarding set-top boxes

2.4.3 SERVICES TO BUILDING IMPROVEMENT CONTRACTORS

Efficiency Vermont continued work in affiliation with the Building Performance Institute (BPI) in training Vermont building improvement contractors to identify and address a range of thermal and electric efficiency issues in buildings. With this training, contractors become certified to deliver comprehensive retrofit efficiency services to residences, through Efficiency Vermont's Home Performance with ENERGY STAR program, and/or to small businesses and rental properties, through Efficiency Vermont's Building Performance program.

Efficiency Vermont supported certified contractors with program promotion, listings on www.encyvermont.com, and consumer financial incentives for projects completed by BPI certified contractors. Contractors also were able to receive education through Efficiency Vermont's annual Better Buildings by Design Conference (discussed in Section 2.5.1). Efficiency Vermont recognized and publicized exceptional achievement by certified contractors through its annual *Best of the Best* awards for efficient building improvements.

In 2014, Efficiency Vermont:

- Launched an expanded Efficiency Excellence Network (EEN) to include contractors who focus on residential heating systems, commercial HVAC, refrigeration, and

electrical. The EEN is designed to encourage contractors to identify and promote energy efficiency opportunities for their customers. Efficiency Vermont provides EEN contractors with training, promotion, marketing resources, and referrals to leverage their relationships with Vermont homeowners as well as with owners of small and medium-sized businesses.

- Hosted a training session for real estate professionals featuring a national leader in green appraisals, who discussed strategies that builders and appraisers can use to show the value of energy efficiency upgrades in appraisals.
- Participated in activities connected to Efficiency Vermont’s Home Performance with ENERGY STAR program:
 - In partnership with RuralEdge in Lyndonville, initiated an offering for middle-income homeowners featuring enhanced initiatives, a \$100 energy audit, and guidance in project completion.
 - Held a meeting of BPI-certified contractors and partners, providing updates and gathering feedback on program policies, software implementation, and contractor training.

2.4.4 SERVICES TO EQUIPMENT SUPPLY CHAIN PARTNERS AND TECHNICIANS

In 2014, Efficiency Vermont:

- Saw a notable increase in distributors’ sales of circulator pumps in Vermont; these were over 3,800 in 2014, compared with 300 in 2013
- Applied lessons learned—from extensive efforts in partnership with circulator pump distributors—to both wholesale and retail heat pump water heater activities, which resulted in more than double the projected sales for the year
- Expanded the Efficiency Excellence Network (described in Section 2.4.3) to encourage electrical, HVAC, and refrigeration contractors to identify and promote energy efficiency equipment and opportunities in their commercial work
- Continued to increase the number of participating distributors of high-performance circulator pumps

2.4.5 TRADE ASSOCIATION PARTNERSHIPS

In addition to engaging in direct customer interaction, Efficiency Vermont worked with professional and trade member organizations representing a wide range of constituents. Efficiency Vermont was able to inform business customers about best practices via trusted channels and with targeted messaging resonating with markets’ particular priorities through:

- Association newsletters and websites
- Technical materials
- Event sponsorship, conference and trade show participation, and speaking engagements
- Training workshops

- Promotional and educational campaigns

Active partnerships:

American Institute of Architects–Vermont Chapter	Vermont Apartment Owners Association
American Society of Heating, Refrigerating, and Air-Conditioning Engineers Building Performance Professionals Association of Vermont	Vermont Association of Hospitals and Health Systems
Construction Specifications Institute	Vermont Association of School Business Officials
Farm to Plate Network	Vermont Convention Bureau
Green Mountain Water Environment Association	Vermont Fuel Dealers Association
Heating, Air-Conditioning and Refrigeration Distributors International	Vermont Green Building Network
Home Builders and Remodelers Association of Vermont	Vermont Green Home Alliance
ICC Building Safety Association of Vermont	Vermont Healthcare Engineers Society
Illuminating Engineering Society	Vermont Hospitality Council
Vermont Alliance of Independent Country Stores	Vermont Inn and Bed & Breakfast Association
	Vermont Maple Sugar Makers Association
	Vermont Rental Property Owners Association
	Vermont Retail & Grocers Association
	Vermont Rural Water Association
	Vermont Ski Areas Association
	Vermont Superintendents Association

2.4.6 COMMUNITY-BASED ACTIVITIES

Throughout the state, Efficiency Vermont engaged with Vermonters interested in leading or joining efforts to reduce energy use in their towns, institutions, and households. Efficiency Vermont strategically partnered with town officials, town energy committees, local organizations, and businesses to increase the impact of existing efforts or to support interest in new efforts. Offered services included planning guidance, promotions, educational materials, volunteer training, and the contribution of efficient products.

In 2014, Efficiency Vermont:

- Conducted training sessions for Community Partnership Grant Program recipients
- Through a local contractor, distributed CFLs, and conducted presentations about basic energy efficiency opportunities for more than 300 Vermonters at senior meal sites
- Organized a six-part workshop series on zero-energy homes as part of the Net Zero Montpelier initiative
- Partnered with Green Mountain Power and NeighborWorks of Western Vermont to conduct a residential door-to-door outreach effort in Rutland City to promote energy efficiency
- Partnered with the Vermont Energy and Climate Action Network (a network of town energy coordinators and committees) to implement the second annual Button-Up Vermont Day, providing education to enable individuals in 31 towns to provide fellow community members with weatherization and energy efficiency information and assistance

2.4.7 FINANCIAL SERVICES

In its ongoing commitment to help Vermonters overcome financial barriers to investing in cost-effective efficiency for their buildings and equipment, Efficiency Vermont engaged in the following efforts in 2014.

Product and Service Price Reductions

To motivate Vermonters to make energy-efficient choices in the marketplace, Efficiency Vermont targeted specific products and services for purchase price reductions. Mechanisms included buy-down or markdown agreements at the manufacturer, distributor, supplier, and retailer level, as well as rebates and incentives for Vermonters investing in the following:

- Efficient products and equipment purchased at retail stores and through installation contractors and commercial suppliers
- Process equipment for such businesses as farms, ski areas, manufacturers, and industrial facilities
- The incorporation of advanced, cost-effective techniques and approaches that enable the design and construction of high-performance residential and commercial buildings
- Thermal building upgrades made by Building Performance contractors in small commercial and multifamily properties
- Comprehensive home improvement projects conducted by Home Performance with ENERGY STAR contractors

Financing for Energy Efficiency Projects

Efficiency Vermont continued to work with lenders to ensure the availability of cost-effective financing for energy efficiency projects. By including energy savings in the repayment formula, lenders may be able to provide funding for individuals and businesses not otherwise qualifying for financing. In many instances, such financing creates a positive cash flow for borrowers because of monthly energy savings that are larger than the loan payments. In 2014, Efficiency Vermont provided technical and financial analysis, promotions, and informational support for customers. Efficiency Vermont engaged with the following:

- Energy Loan Guarantee Program (launched in 2014): Large-project financing for businesses through Vermont banks and credit unions. Efficiency Vermont, in partnership with the Vermont Public Service Department (PSD), obtained funding to establish a loan loss reserve through a U.S. Department of Energy grant to the State Energy Program. The Vermont Economic Development Authority provided a guarantee of 75% of loans. Efficiency Vermont provided technical assistance and cash flow analysis, determining how energy savings can support loan payments.
- Heat Saver Loan (launched in 2014): Low interest rate financing for income-qualified homeowners, to be used for heating system replacements through Efficiency Vermont's EEN and in partnership with the PSD and local credit unions.

- Business Energy Loan with Opportunities Credit Union: Increasing businesses' opportunities to finance efficiency projects by factoring energy savings into loan qualification calculations.
- Green Mountain Power (GMP) EverGreen Fund: Zero-interest on-bill financing for K–12 schools and municipal buildings located in GMP service territory.
- Municipal Tax-Exempt Leasing: Opportunities for municipalities to make energy-saving upgrades in facilities such as K–12 schools without raising budgets or establishing bonds.
- Property Assessed Clean Energy (PACE): Home loans secured by a property lien. In 2014, improvements included a 50% loan advance prior to project completion, lowered fees, clarification that there is no early payoff penalty, and an interest rate buy-down funded through the PSD.
- Green Revolving Fund: Financing for colleges, universities, and other nonprofit institutions, with financial support from the High Meadows Fund and in partnership with the Sustainable Endowments Institute.
- Agricultural Energy Efficiency Loan: Providing agricultural facilities with access to financing for energy efficiency projects.

Financing Education and Analysis

To enable Vermonters to be aware of, understand, and make decisions regarding financing options, Efficiency Vermont provided easy access to information by phone, through its website, in printed materials, and in media placements. Efficiency Vermont continued to provide financial analysis for custom projects to help customers understand the financial aspects of efficiency investments.

Financial Product Development and Fund Leveraging

Efficiency Vermont continued its efforts to: 1) increase financing opportunities for Vermonters engaged in energy efficiency projects; and 2) leverage public and private resources to draw new funding for energy efficiency efforts without additional ratepayer investment. These efforts are discussed in Section 2.5.5.

2.4.8 COORDINATION WITH DISTRIBUTION UTILITIES

Efficiency Vermont continued its coordination with:

- Burlington Electric Department and Vermont Gas Systems to ensure coordination in the implementation of thermal and electric efficiency and Non-Resource Acquisition services to optimize administrative efficiency and prevent market confusion
- Green Mountain Power Corporation (GMP) in the implementation of services through the Community Energy & Efficiency Development Fund, offering GMP customers unique services as well as shared services, through which GMP invests in existing Efficiency Vermont programs
- Vermont Public Power Supply Authority and distribution utilities across the state, including Vermont Electric Cooperative and Washington Electric Cooperative.

2.4.9 STATE, REGIONAL, AND NATIONAL PARTNERSHIPS

In service to Vermonters and in support of the State's energy goals, Efficiency Vermont continued to leverage the expertise and resources of entities engaged in a range of energy and efficiency endeavors, both in Vermont and outside the state. Efficiency Vermont shared its own expertise at regional and national gatherings, enabling Vermont to be both recognized for its innovations and informed by best practices in other states. In Vermont, partners included the High Meadows Fund, the Vermont Housing and Conservation Board, the Regulatory Assistance Project, and many others. On a regional and national level, Efficiency Vermont maintained ongoing partnerships with such organizations as the Northeast Energy Efficiency Partnerships (NEEP), the New Buildings Institute, the Consortium for Energy Efficiency, ENERGY STAR, and the American Council for an Energy-Efficient Economy, working to share information on best practices and to establish uniform product eligibility criteria and program designs.

A sample of efforts that Efficiency Vermont engaged in with NEEP in 2014:

- NEEP Regional Commercial Building Lighting Controls and Advanced Lighting Controls Project
- A metering study in the NEEP dryer baseline evaluation in Vermont
- Monthly NEEP efficient product category meetings
- NEEP Residential Lighting Strategy stakeholder group and workshop
- NEEP working groups regarding heat pump water heaters and home energy management systems

2.5 MARKET ADVANCEMENT ACTIVITIES

Efficiency Vermont engaged in efforts that build customer awareness and knowledge, help shape energy and efficiency policies, and identify approaches for optimal service development, delivery, and improvement. In 2014, the below activities continued to be essential to Efficiency Vermont's efforts to deepen energy savings and to have a lasting, positive impact on Vermont households, businesses, and communities.

The eight areas discussed in this section correspond to Non-Resource Acquisition budget categories, with the exception of the final subsection—2.5.8. Consumer Behavior Studies—that addresses 2014 activities funded under the smart grid 2011 carryover budget.

2.5.1 EDUCATION AND TRAINING

Codes and Standards Support—Residential and Commercial / Industrial

To help Vermonters comply with and / or surpass State energy codes for new construction and renovation projects, Efficiency Vermont:

- Continued staffing the Energy Code Assistance Center, providing assistance to homeowners, building professionals, and towns seeking information on technical and

compliance aspects of the State’s Residential Building Energy Standards and Commercial Building Energy Standards

- Disseminated codes and standards information to municipalities through meetings coordinated by regional planning commissions and through training sessions
- Held a training session for the general public regarding State residential code
- Collaborated with the PSD, the Energy Futures Group, and Navigant Consulting (code update contractor for the PSD) to provide technical assistance—including energy modeling—for State building standards updates
- Worked with other stakeholders in efforts to update residential and commercial codes and to develop a new “stretch code” that exceeds Vermont’s base energy code for residential new construction

Energy Literacy Project

Through its Energy Literacy Project (ELP), Efficiency Vermont continued to coordinate with Vermont teachers, schools, and K–12 associations to increase students’ knowledge of energy and efficiency, as well as to increase energy-saving actions in homes, schools, and communities. The Vermont Energy Education Program, under contract with Efficiency Vermont to implement this project, supported educators in enhancing school curricula and increasing student awareness of and advocacy for energy-related issues in their schools and communities. In 2014, the ELP served all 14 of Vermont’s counties, reaching more than 7,500 students in 90 schools, seven homeschool groups, 13 libraries, and several summer camps and student conferences. The ELP also:

- Provided professional development or targeted teacher trainings at nine schools and at the Vermont Science Teachers Association Conference
- Presented two summer institutes for teachers
- Developed a Vermont-specific energy literacy framework and incorporated this into curriculum and professional development efforts
- Engaged in development of a “Smart Meter, Smart Grid” presentation partially funded by GMP, Burlington Electric Department, Washington Electric Cooperative, and Vermont Electric Cooperative
- Participated in 27 energy fairs and outreach events
- Updated its “Button Up!” presentation to better align with Next Generation Science Standards and developed and piloted a home walkthrough worksheet
- Developed and maintained education resources, including learning kits, brochures, a lending library, and more robust web content
- Held a stakeholder meeting to share results to date and gather input on 2015–2017 implementation.

General Public Education

To motivate and empower the general public to take energy-saving actions, Efficiency Vermont continued activities designed to increase public awareness of: 1) energy efficiency and its benefits; 2) actions that lower energy use; and 3) Efficiency Vermont as a resource for comprehensive energy efficiency solutions. Methods used in 2014 included:

- Provision of information and marketing and advertising promotions via print, broadcast, web-based, and social media
- An increase in customer engagement through access via www.encyvermont.com to recommendations on efficiency actions, online rebate applications, information about efficient technologies and approaches, identification of qualified local service providers, locations of retailers selling efficient products, and information on a range of other efficiency and energy topics
- Dissemination of information at home shows, community events, fairs, and trade shows
- Creation of advice columns and electronic newsletters that delivered information on energy efficiency and Efficiency Vermont's services

Better Buildings by Design Conference

Efficiency Vermont presented its annual Better Buildings by Design Conference in February. This two-day gathering is the region's premier design and construction conference, serving as a key resource to 1,000-plus construction and design professionals, and equipment installation and service contractors. The conference focused on the latest techniques and technologies for building durability, superior performance, energy efficiency, and value for both residential and business new construction as well as retrofit projects. In addition to 40 workshops and hands-on demonstrations given by industry leaders, the conference hosted a trade show of 50 exhibitors of efficient technologies.

Customer Support

Vermonters continued to have easy access to expert energy efficiency information and guidance through Efficiency Vermont's toll-free call center, which provided:

- Help for commercial and residential customers in understanding their energy use and engaging in energy management
- Comprehensive information related to Efficiency Vermont's services as well as efficient buildings and equipment
- Referrals to resources such as Vermont's Weatherization Program, the Renewable Energy Resource Center, the Energy Code Assistance Center, Vermont Gas Systems, Burlington Electric Department, and other distribution utilities.

2.5.2 APPLIED RESEARCH AND DEVELOPMENT

Efficiency Vermont undertook several research and development projects to gather information on areas with potential for inclusion in future programming. The projects spanned a variety of technology applications and customer segments.

Smart Grid and Advanced Metering Infrastructure (AMI)

In 2014, Efficiency Vermont:

- Launched, completed, and delivered final results on the joint GMP–Efficiency Vermont residential behavioral demand response pilot involving 32,000 randomly selected customers during four summer peak events
- Completed a home electricity insights pilot
- Collaborated with Burlington Electric Department to investigate AMI gateway options to allow (primarily commercial) customers access to real-time data from AMI meters using a wireless connection; the effort was completed and Efficiency Vermont developed recommendations regarding next steps
- Launched a pilot, to continue into 2015, in coordination with GMP and Middlebury College, testing the use of in-home displays and other home network devices (such as AMI gateways) to provide both residential and commercial customers with access to real-time data from AMI meters using a wireless connection
- Engaged in development of strategies and plans for build-out of submetering data infrastructure to support commercial and industrial customers; this work will continue in 2015
- Continued configuration and testing of the AMI data warehouse, including data quality and data transfer completeness investigations and testing of analytics prototypes
- Developed data analytics tools and enhancements to the tool-development platform in order to efficiently and effectively use AMI and submeter data

Technology Demonstrations

Low-cost, residential-scale remote metering to support solar thermal heating systems: The goal of this project was to identify and evaluate reliable, low-cost remote metering solutions for monitoring the performance of solar thermal systems. In partnership with solar thermal contractors and a Vermont-based solar thermal system integrator, Efficiency Vermont connected solar thermal meters, associated pumps, and sensors to an active solar water heating system. Initial findings identified optimal water usage conditions for accuracy and supported the appropriateness of requiring remote metering in Efficiency Vermont’s solar water heating initiative.

Path to zero-energy homes: The goals of this effort were twofold: 1) develop and apply solutions to achieve comprehensive, deep energy retrofits and net-zero in at least 10 existing homes across Vermont; and 2) create a road map to inform program enhancements for a larger statewide approach toward achieving energy savings of 50% or greater in the residential market. In 2014, following outreach in seven towns throughout the state, Efficiency Vermont conducted consultations with 28 owners, including five with a completed zero-energy project, six in the design or construction phase, and four likely to move forward with a project in the foreseeable future. Despite the small number of homes with finished projects, Efficiency Vermont completed the effort and developed a report with lessons learned and recommendations. Additionally, Efficiency Vermont made a significant addition to the effort by

presenting a net-zero training course for Home Performance with ENERGY STAR contractors and others in the renovation, insulation, and construction industry.

Whole building control systems: This project was designed to determine savings benefits from whole building control systems. Following the initial installation of controls at a convenience store in 2013, Efficiency Vermont implemented a second whole building control system project in 2014. Installed in a different convenience store, the 2014 equipment controls HVAC and lighting systems, monitors refrigeration systems and interior air temperatures, and sends email alarms to owners regarding high temperatures, open coolers, and other conditions with an impact on products. Also in 2014, Efficiency Vermont, in partnership with the system installer, identified a new, more affordable controls system that it compared with the installed system. Initial findings suggested that although both systems offered in-depth information, the building operators lacked the time to use the controls to better manage their energy use. Final results were expected in 2015.

Ammonia refrigeration systems: In use at several industrial facilities in Vermont, large ammonia-based refrigeration systems are often the biggest energy users in a building. Efficiency Vermont undertook this project to develop a metric-based dashboard for monitoring energy performance and generating benchmarking data to define “high performance” to help ensure that a system is operating at peak efficiency. In 2014, Efficiency Vermont met with key personnel at a large ice cream manufacturer, who expressed interest in participating in the project. Efficiency Vermont also joined the Industrial Refrigeration Consortium at the University of Wisconsin in order to gain access to technical support on monitoring and benchmarking. This project will continue through 2015.

Rack hybrid systems for medium-sized grocery stores: The original aim of this project was to ascertain energy savings potential through liquid pumping amplification. Unfortunately, the system being metered presented severe mechanical issues, causing the owner to consider purchasing a new rack and rooftop condensing unit. This created an opportunity to shift the focus of this effort to identifying energy savings potential in installing a new rack system. In 2015, Efficiency Vermont will reinstall metering equipment and conduct data collection and analysis.

Domestic hot water temperature control via electronic mixing valves: This effort, in partnership with Housing Vermont, was designed to determine the benefits of using electronic mixing valves for hot water heaters to control temperatures. This project was delayed owing to an extended medical leave by the lead technical partner at Housing Vermont. At year-end, the baseline monitoring of the existing mixing valve was completed, and the electronic valve was installed and fully operational at the testing facility. Work will continue in 2015.

Visualizing resource for affordable-housing operators: Efficiency Vermont provided a grant, startup guidance, and ongoing technical feedback to Housing Vermont in support of its efforts to better manage building energy use. This project’s aim was to help Housing Vermont and its software development contractor build systems that would make it easier for building

operators to understand, interpret, and apply data being generated by Housing Vermont's existing monitoring equipment. At year-end, the contractor was in the development phase. The project and Efficiency Vermont's technical involvement were expected to continue into 2015.

Efficiency Vermont / University of Vermont Extension research partnership: This effort was designed to identify energy efficiency opportunities in vegetable storage operations. Through in-person and metered data collection, Efficiency Vermont monitored temperature and humidity levels at eight operations across the state. With this information, Efficiency Vermont was able to provide each grower with an energy profile, highlighting the current state of its equipment and noting potential energy savings opportunities, and to create a walk-in cooler best practices guide for staff to use with customers. By the end of 2014, Efficiency Vermont began analysis of the cost-effectiveness of different program delivery methods to reach targeted farmers. A report will be completed in 2015, to guide program design and outreach for this market segment.

2.5.3 PLANNING AND REPORTING

Efficiency Vermont prepared and submitted required documents to the PSB, the PSD, and other required stakeholders. The below documents were presented in fulfillment of requirements specified under agreements with State agencies, to maintain accountability and to provide accurate tracking of progress for service delivery optimization, for public benefit, and for the benefit of entities outside Vermont seeking replication.

- Triennial plan
- Annual savings claim and annual report
- Annual highlights brochure
- Monthly and quarterly reports
- Quarterly and annual budget variance reports
- Service quality reports
- Quarterly customer complaint and feedback reports
- Documents supporting PSD financial audits
- PSD monthly invoices
- Vermont Energy Investment Corporation financial audit

Demand Resources Plan

Efficiency Vermont engaged in the following activities related to 2014 reporting on the 2015–2034 Demand Resources Plan Proceeding:

- Filed budget and savings recommendations, including: 1) electric resource acquisition budgets and savings; 2) TEPF resource acquisition budgets and savings; and 3) non-resource acquisition budgets (split between electric and TEPF) and descriptions
- Commented on: 1) Energy Efficiency Utility (EEU) compensation (QPI award and operations fees) rates and budgets; 2) PSD evaluation plan and budget; 3) EEU fiscal agent and EEU fund audit budgets; and 4) impact of budget recommendations on electricity consumers' rates and bills

- Filed comments on budgets and savings recommendations
- Participated in resource acquisition elements workshop
- Participated in non-resource acquisition elements, evaluation, and compensation workshop
- Filed proposed QPI targets, and proposed QPI incentive scaling and weighting
- Filed the Demand Resources Plan Final Deliverable, consisting of required elements as defined in Section II.2.A of the Energy Efficiency Utility Process and Administration Document

Participation in State and Regional Integrated Planning

Efficiency Vermont continued its active participation in the Vermont System Planning Committee (VSPC), a collaborative body bringing together Vermont’s utilities, Vermont Electric Power Company, the PSD, and individuals representing the interests of ratepayers to address approaches to electric transmission system planning and management. In 2014, Efficiency Vermont participated in VSPC’s four subcommittees: Coordinating, Forecasting, Geographic Targeting, and Public Participation. In this way, Efficiency Vermont actively engaged in the VSPC’s reliability planning and forecasting, energy efficiency geographic targeting, public engagement, and standard offer geographic targeting efforts. In particular, this work involved providing input to solution selection, cost allocation, and implementation planning of all identified reliability deficiencies.

ISO-NE Forward Capacity Market Participation

Vermont Energy Investment Corporation (VEIC), as the implementer of Efficiency Vermont, continued to represent the interests of Vermont ratepayers by participating in the ISO-NE Forward Capacity Market (FCM), in which Efficiency Vermont energy efficiency capacity savings are bid as a resource for the regional electric grid. VEIC delivered approximately 81.4 megawatts of peak capacity savings from Efficiency Vermont activity into the FCM in 2014. This led to approximately \$4.7 million in revenues that provided funds for investment in thermal efficiency services. Efficiency Vermont’s 2014 FCM commitments represented Vermont’s single largest peak capacity provider, increasing grid capacity by lowering demand.

2.5.4 EVALUATION

As an essential part of its reporting efforts, Efficiency Vermont undertook activities designed to maintain the accuracy of reported savings claims, including:

- Working with the PSD as it conducted its annual savings verification to review the initial savings claim
- Participating in the Technical Advisory Group with the PSD, Burlington Electric Department, and other stakeholders to resolve any issues arising from the annual savings verification process and to provide a proactive mechanism for developing energy characterization and savings calculations
- Metering, measurement, and evaluation activities related to ISO-NE FCM participation

- Maintaining and updating the *Technical Reference Manual*, which characterizes energy-saving measures on the basis of several parameters: Annual electric savings, annual coincident peak savings, annual fossil fuel energy savings, incremental costs and measure lives, and other applicable resource savings such as water savings and operational and maintenance cost savings

Efficiency Vermont continued to follow rigorous quality management protocols in alignment with Quantifiable Performance Indicators (see Sections 3.3 through 3.5) and with the Service Quality and Reliability Plan (SQRP) (see Section 3.6), which defines customer service performance standards in four service categories:

1. General Business Customer Satisfaction: Developed a satisfaction survey in coordination with the PSD and, through a third-party vendor, delivered it to more than 500 business customers. Within 75 usable responses, 81% of customers reported positive or insignificant differences between expectations and actual experiences, meeting or exceeding SQRP standards.
2. Project Customer Satisfaction: Efficiency Vermont surveyed customers upon completion of business projects (prescriptive and custom), residential new construction, and retrofit projects. More than 90% of respondents rated service on a scale of one to five (five being excellent) as three or greater, exceeding the SQRP performance standard.
3. Incoming Call Responsiveness: Efficiency Vermont exceeded each of the below performance standards, based upon automated tracking of all incoming calls.
 - Average answer time: 8 seconds.
 - Average percentage of calls answered by a live agent during normal business hours: 92%.
 - Average percentage of abandoned calls: 1%.
4. Complaint Rate and Resolution: Efficiency Vermont conducted tracking of all customer concerns or comments requiring internal referral and subsequent follow-up for resolution, with the below results.
 - Percentage of complaint follow-up calls attempted by end of next business day: Results went beyond the 95% requirement; the actual percentage was 100%.
 - Ratio of complaints to participants: Results went beyond the required 0.5% or less;
 - Percentage of complaints closed within 12 business days of initial complaint: Results went beyond the 95% requirement; the actual percentage was 100%.

2.5.5 POLICY AND PUBLIC AFFAIRS

Public Affairs

In 2014, Efficiency Vermont continued to focus on two key areas:

1. Public outreach, via media and online outlets, to increase public awareness and understanding of Efficiency Vermont, as well as engagement in its programs
2. Outreach and response to policy makers and key external stakeholders about general information and particular Efficiency Vermont activities

Highlights for the year included:

- Working with the Legislature, utilities, and other stakeholders on the passage of legislation authorizing the PSB to explore the use of Energy Efficiency Charge funds for heat pumps
- Hosting a series of Efficiency Vermont community forums to give members of the public a meaningful opportunity to engage with Efficiency Vermont leadership on plans for the next three years
- Organizing several well-attended press events to highlight major new Efficiency Vermont initiatives such as the Industrial Peak Initiative—a press event attended by Vermont Governor Peter Shumlin—and Home Energy Reports.

Regulatory Affairs

Efficiency Vermont continued to:

- Work with the PSD to write, revise, and maintain governing documents necessary for Efficiency Vermont to operate as a regulated Energy Efficiency Utility
- Review and provide advice on regulator-required, coordinated services and initiatives with Vermont's other EEU and weatherization agencies to provide seamless, cost-effective statewide energy efficiency programs
- Oversee Efficiency Vermont interactions in the ISO-NE FCM to ensure regulatory compliance and help secure financial benefits from energy efficiency in New England
- Work with the Regional Greenhouse Gas Initiative (RGGI), report greenhouse gas reductions as a result of Vermont's RGGI-funded programs, and help comprehensively identify and value all TEPF efficiency benefits
- Develop and support policy instruments that can serve as useful tools for electricity and TEPF savings through voluntary action or government adoption
- Research regulatory policies to support best practices for efficiency programs to enable continuous improvement in Efficiency Vermont's services and to support Vermont's prominence as a national leader in energy efficiency ideas and practices
- Pursue regulatory approval of flexible and robust strategies to cost-effectively avoid or control capacity and energy supply in support of electric distribution utility integrated resource planning
- Review and provide guidance on Efficiency Vermont internal policies to ensure regulatory compliance
- Participate as a party in the triennial review of distribution utilities' integrated resource plans, updating of avoided costs, and all other PSB-ordered proceedings with potential impact on energy efficiency services
- Protect confidential customer information through maintenance and fortification of internal policies, procedures, and practices

Financial Product Development

As part of its efforts to bring efficiency within reach of more Vermonters, Efficiency Vermont continued to manage relationships with financial institutions, utilities, and government leaders to reduce barriers to implementing financing mechanisms for energy efficiency projects.

Fund Leveraging

Efficiency Vermont continued to engage in activities designed to acquire public and private resources for Vermonters undertaking efficiency projects in their homes and businesses. This approach multiplies the impact of ratepayer dollars by using a modest amount of funds to draw higher amounts of new resources without additional ratepayer investment. In 2014, Efficiency Vermont submitted a proposal for a portfolio of programs and services to the GMP Community Energy & Efficiency Development Fund for GMP investment in 2015 programs. Efficiency Vermont also began the process of determining eligibility for the U.S. Department of Agriculture's Rural Utilities Service Energy Efficiency and Conservation Loan Program. Highlights of other fund leveraging efforts follow.

Energy Loan Guarantee Program: Efficiency Vermont launched large-project financing for businesses through Vermont banks and credit unions. In partnership with the PSD, Efficiency Vermont obtained funding to establish a loan loss reserve through a U.S. Department of Energy grant to the State Energy Program. The Vermont Economic Development Authority provided a guarantee of 75% of loans. Efficiency Vermont provided technical assistance and cash flow analysis, determining how energy savings can support loan payments.

Vermont Public Service Department Training Grant: Efficiency Vermont worked with the PSD to secure funding, for 2015 use, to support code training and blower door training, required to meet "stretch" code in 2015.

Community Energy Partnership Grant Program: Efficiency Vermont implemented a grant program for nonprofit organizations serving low-income Vermonters. The Community Energy Partnership Grant Program leverages Efficiency Vermont funding to acquire third-party resources to reach Vermonters with efficient products and assistance through existing, trusted connections. The grant recipients beginning implementation in 2014 were:

- COVER Home Repair—working with very low income Vermonters
- Central Vermont Community Action Council—providing home day care
- Energy Co-op of Vermont—reaching mobile home owners
- Onion River Exchange—helping low-income Vermonters through a time bank
- Committee on Temporary Shelter—serving marginally housed Vermonters

Green Revolving Fund for Colleges & Universities: Efficiency Vermont's Green Revolving Fund (GRF) initiative continued to leverage funds through the deployment of private capital as a financing mechanism for efficiency projects on Vermont higher education campuses. Highlights of GRF activities in 2014 can be found in the Colleges & Universities discussion in Section 2.1.3 of this report.

2.5.6 INFORMATION TECHNOLOGY

Efficiency Vermont's information technology efforts continued to be focused in two areas:

1. Information Services—optimizing computer infrastructure, critical data and document management, substantial support for reporting and analytics, and ongoing attention to improving and updating existing applications and processes
2. Strategic Technology Services—deepening Efficiency Vermont's ability to serve Vermonters with software development, acquisition, and integration, as well as continuing best-practice data stewardship to ensure customer privacy, security, and alignment with customer data usage preferences

Notable activities in 2014 included:

- Collaboration with GMP regarding AMI data
- A major restructure of utility data information to support integration of AMI data and to bring systems in line with industry standards for utility data storage
- Enhancements to KITT (the core application used to manage energy efficiency projects), including several major releases, an initial web version, refactoring of utility data entity structure, and improved integration with internal and web systems
- Redevelopment of CAT, focusing on analyzing the overall data architecture between systems, the creation and management of measures, a web service to power energy calculations, a user interface, and a structure in which all energy calculations are done in one place rather than across multiple applications
- Several updates to the HERO application
- Improvements in the import and export of Home Performance with ENERGY STAR data and support for the implementation of new software providing deepened services to Home Performance with ENERGY STAR customers and contractors
- Improvements in the functionality of, and several new releases of, the *Technical Reference Manual* application
- Integration of Efficiency Vermont systems with the ENERGY STAR Portfolio Manager to allow for automated data transfer
- A major effort to update systems to reflect changes resulting from the GMP purchase of Central Vermont Public Service, including integration of new data, mapping of old accounts and premises to new GMP structures, and other significant data quality assurance efforts
- Automation of the import of data from third-party efficient product vendors, speeding up the former manual process and allowing for additional error checks
- Significant efforts in support of online rebate application functionality
- Configuration of database systems to allow for 2014 project and program data collection
- Improvement of the data model for storing and managing utility data to better align the model to real-world use cases and industry standards
- The completion and release of the Energy Savvy Optix and OptiMiser integration and development of functionality to push data to these systems

2.5.7 GENERAL ADMINISTRATION

In support of the efforts discussed in this report, Efficiency Vermont continued to undertake activities centering on such needs as staff communication, coordination of service implementation across different functions, and the management and monitoring of overall performance and spending.

2.5.8 CONSUMER BEHAVIOR STUDIES

Efficiency Vermont utilized smart grid carryover funds from 2011 to match federal funding for Vermont Electric Cooperative's Smart Grid Investment Grant study. The objective of the study was to reduce energy demand and shift peak load using variable peak pricing. In this 18-month study, 800 customers participated. Efficiency Vermont submitted a draft report to the U.S. Department of Energy for review and a final report was slated for completion in 2015.

3. RESOURCE AND NON-RESOURCE ACQUISITION RESULTS

The tables presented in this section contain information on results from both Resource Acquisition and Non-Resource Acquisition activity, as well as a summary of Service Quality and Reliability.

3.1 Resource Acquisition Summary

	Total Efficiency Vermont Resource Acquisition	Thermal Energy and Process Fuels Resource Acquisition	Electric Resource Acquisition	Customer Credit Resource Acquisition
Efficiency Vermont Costs				
Year to Date Costs	\$47,240,447	\$5,428,206	\$40,963,363	\$848,878
* Annual Budget Estimate	\$47,241,040	\$5,428,263	\$40,838,396	\$974,382
Unspent Annual Budget Estimate	\$594	\$57	(\$124,967)	\$125,504
% Annual Budget Estimate Unspent	0.0%	0.0%	-0.3%	12.9%
Other Costs and Commitments				
Participant Costs Year to Date	\$29,160,616	\$6,677,720	\$23,125,497	(\$642,601)
Third Party Costs Year to Date	\$1,247,149	\$284,124	\$963,025	\$0
Savings Results				
MWh Year to Date	90,385	-774	91,146	13
MWh Cumulative starting 1/1/12	291,564	-499	286,907	5,156
Winter Peak Coincident kW Savings Results				
Winter Coincident Peak kW Year to Date	16,459	-59	16,514	5
Winter Coincident Peak kW Cumulative Starting 1/1/12	55,440	179	54,477	785
Summer Peak Coincident kW Savings Results				
Summer Coincident Peak kW Year to Date	10,262	-65	10,321	5
Summer Coincident Peak kW Cumulative Starting 1/1/12	36,662	-101	35,979	783
TRB Savings Results				
TRB Year to Date	\$93,925,030	\$11,795,243	\$82,101,439	\$28,349
TRB Cumulative Starting 1/1/12	\$350,412,591	\$60,757,079	\$284,290,061	\$5,365,451
MMBtu Savings Results				
MMBtu Year to Date	77,820	36,534	41,286	0
MMBtu Cumulative Starting 1/1/12	314,863	168,795	146,428	-359
Participation				
Partic.w/ installs Year to Date	57,420	3,285	54,134	1
Partic.w/ installs Cumulative starting 1/1/12	139,356	8,262	131,093	1

* Annual projections are estimates only and provided for informational purposes.

3.2 Budget Summary

	<u>Budget</u> <u>Current Year</u> <u>2014¹</u>	<u>Actual</u> <u>Current Year</u> <u>2014</u>	<u>%</u>	<u>Budget</u> <u>2012-2014</u>	<u>Actual</u> <u>2012-2014</u>	<u>%</u>
RESOURCE ACQUISITION						
<i><u>Electric Efficiency Funds Activities</u></i>						
Business Sector	\$ 23,074,600	\$ 24,859,962	108%	\$ 62,031,400	\$ 59,284,826	96%
Customer Credit	\$ 958,000	\$ 834,606	87%	\$ 3,038,500	\$ 2,915,080	96%
<u>Residential Sector</u>	<u>\$ 17,077,200</u>	<u>\$ 15,414,704</u>	<u>90%</u>	<u>\$ 39,505,100</u>	<u>\$ 42,374,611</u>	<u>107%</u>
Total Electric Efficiency Funds Activities	<u>\$ 41,109,800</u>	<u>\$ 41,109,272</u>	<u>100%</u>	<u>\$ 104,575,000</u>	<u>\$ 104,574,517</u>	<u>100%</u>
<i><u>Thermal Energy and Process Fuels Funds Activities</u></i>						
Business Sector	\$ 1,952,300	\$ 771,659	40%	\$ 3,034,300	\$ 1,853,738	61%
<u>Residential Sector</u>	<u>\$ 3,384,700</u>	<u>\$ 4,565,286</u>	<u>135%</u>	<u>\$ 10,610,400</u>	<u>\$ 11,790,913</u>	<u>111%</u>
Total Thermal Energy and Process Fuels Funds Activities	<u>\$ 5,337,000</u>	<u>\$ 5,336,944</u>	<u>100%</u>	<u>\$ 13,644,700</u>	<u>\$ 13,644,651</u>	<u>100%</u>
TOTAL RESOURCE ACQUISITION	<u>\$ 46,446,800</u>	<u>\$ 46,446,216</u>	<u>100%</u>	<u>\$ 118,219,700</u>	<u>\$ 118,219,168</u>	<u>100%</u>
<u>NON-RESOURCE ACQUISITION²</u>						
Education and Training	\$ 549,200	\$ 549,196	100%	\$ 2,186,800	\$ 2,186,800	100%
Applied Research and Development	\$ 416,900	\$ 416,624	100%	\$ 1,181,100	\$ 1,180,875	100%
Planning and Reporting	\$ 498,100	\$ 498,069	100%	\$ 1,499,000	\$ 1,499,000	100%
Evaluation	\$ 760,700	\$ 760,649	100%	\$ 2,130,500	\$ 2,130,496	100%
Policy and Public Affairs	\$ 526,600	\$ 526,620	100%	\$ 1,614,100	\$ 1,614,100	100%
Information Technology	\$ 978,700	\$ 978,646	100%	\$ 2,507,700	\$ 2,507,624	100%
<u>General Administration</u>	<u>\$ 249,500</u>	<u>\$ 248,775</u>	<u>100%</u>	<u>\$ 774,900</u>	<u>\$ 774,137</u>	<u>100%</u>
TOTAL NON-RESOURCE ACQUISITION	<u>\$ 3,979,700</u>	<u>\$ 3,978,580</u>	<u>100%</u>	<u>\$ 11,894,100</u>	<u>\$ 11,893,034</u>	<u>100%</u>
Smart Grid (2011 Carryover)²	<u>\$ 135,000</u>	<u>\$ 122,824</u>	<u>91%</u>	<u>\$ 272,500</u>	<u>\$ 260,337</u>	<u>96%</u>
Operations Fee ²	<u>\$865,700</u>	<u>\$865,335</u>	<u>100%</u>	<u>\$2,231,900</u>	<u>\$2,231,427</u>	<u>100%</u>
SUB-TOTAL COSTS (prior to Performance-Based Fee)	<u>\$ 51,427,200</u>	<u>\$ 51,412,954</u>	<u>100%</u>	<u>\$ 132,618,200</u>	<u>\$ 132,603,965</u>	<u>100%</u>
Performance-Based Fee	<u>\$ -</u>	<u>\$ -</u>	<u>0%</u>	<u>\$ 3,336,070</u>	<u>\$ -</u>	<u>0%</u>
TOTAL COSTS (including Performance-Based Fee)	<u>\$ 51,427,200</u>	<u>\$ 51,412,954</u>	<u>100%</u>	<u>\$ 135,954,270</u>	<u>\$ 132,603,965</u>	<u>98%</u>

¹ Annual budgets are provided for information purposes only. Efficiency Vermont operates under three-year Board approved budgets.

² NRA, Smart Grid and Operations Fee results include amounts invoiced in the NRA-Smart Grid True-up Invoice issued on February 26, 2015

3.3 Electric Performance Indicators & Minimum Requirements

QPI#	Title	Performance Indicator / Milestone	Target	Actual	%
1	Electricity Savings	Annual incremental net MWh savings	274,000	286,907	105%
2	Total Resource Benefits	Present worth of lifetime electric, fossil, and water benefits	\$305,984,352	\$284,290,061	93%
3	Statewide Summer Peak Demand Savings	Cumulative net summer peak demand (kW) savings	41,920	35,979	86%
4.a.	Summer Peak Demand Savings in Geographic Areas	Cumulative net summer net peak demand savings in the St Albans area	1,800	2,086	116%
4.b.		Cumulative net summer net peak demand savings in the Susie Wilson area	1,570	1,626	104%
5	Business Comprehensiveness	Custom, business retrofit or equipment replacement projects with multiple end-uses	378	472	125%
6	Market Transformation Residential	Vermont 1-4 unit residential new construction program participation in 2014 as % of total 1-4 unit building permits in 2013	40%	36%	90%
7	Market Transformation Business	Instances where an energy efficiency measure supply chain partner is attached to completed business project	7,360	9,330	127%

MPR#	Title	Minimum Requirement	Minimum	Actual	%
8	Minimum Electric Benefits	Total electric benefits divided by total costs	1.2	1.96	163%
9	Threshold (or minimum acceptable) Level of Participation by Residential Customers	Total residential sector spending	\$22,000,000	\$43,099,216	196%
10	Threshold (or minimum acceptable) Level of Participation by Low-Income Households	Total low-income single and multifamily services spending	\$7,500,000	\$9,867,440	132%
11	Threshold (or minimum acceptable) Level of Participation by Small Business Customers	Number of total non-residential premises with annual electric use of 40,000 kWh/yr or less that acquire kwh savings	1,950	3,856	198%
12	Geographic Equity	TRB for each geographic area is greater than values shown on Geo-Equity Table	14	14	100%
13	Administrative Efficiency - Management Span of Control	Staff-to-Supervisor FTE ratio > 8.5:1	8.5	10.2	120%
14	Administrative Efficiency - Key Process Improvements	Meet all pre-determined milestones on schedule	5	5	100%
15	Service Quality	Achieve 92 or more metric points	92	107	116%
16	Spending Threshold Variance	Incremental spending for a three-year performance period (including applicable operations fees) is less than threshold	\$1,140,756	\$519,602	46%

3.4 Electric Minimum TRB per Geographic Area (QPI #12)

Geographic Area (Counties)	Minimum TRB	Actual TRB	% of Goal
Addison	\$8,473,457	\$14,517,050	171%
Bennington	\$8,542,688	\$14,453,705	169%
Caledonia	\$7,185,374	\$16,405,023	228%
Chittenden	\$29,546,914	\$71,922,676	243%
Essex / Orleans	\$7,717,769	\$13,994,145	181%
Franklin	\$16,148,322	\$24,084,706	149%
Grand Isle	\$1,604,009	\$1,894,221	118%
Lamoille	\$5,632,070	\$14,781,867	262%
Orange	\$6,658,830	\$7,448,276	112%
Rutland	\$14,184,508	\$28,240,175	199%
Washington	\$13,699,893	\$27,180,066	198%
Windham	\$10,243,229	\$30,767,384	300%
Windsor	\$13,040,738	\$18,600,768	143%
Total	\$142,677,800	\$284,290,061	199%

**3.5 Thermal Energy and Process Fuels Funds
Performance Indicators & Minimum Requirements**

QPI#	Title	Performance Indicator / Milestone	Target	Actual	%
1	Thermal & Mechanical Energy Efficiency Savings	Annual incremental net MMBtu savings	155,000	168,795	109%
2	Residential Single Family Comprehensiveness	a. Average air leakage reduction per project	34%	32%	94%
		b. Percent of projects with square feet of insulation added equivalent to at least 50% of the home's finished square feet of floor area	44%	59%	134%
		c. Percent of projects with both shell measures and heating system measures installed	16%	14%	88%

MPR#	Title	Minimum Requirement	Minimum	Actual	%
3	Threshold (or minimum acceptable) Level of Participation by Residential Customers	Residential sector spending as % of total spending	62.5%	86.4%	138%
4	Threshold (or minimum acceptable) Level of Participation by Low-Income Households	Low-income single- and multi-family spending as % of total spending	17.0%	27.1%	159%
5	Spending Threshold Variance	Incremental spending for a three-year performance period (including applicable operations fees) is less than threshold	\$116,328	\$94,470	81%

3.6 Service Quality and Reliability Summary Report

Metric #	Metric Description	Reporting Frequency	Actual Performance this Period	Points Earned this Period	Cumulative 2012-14 Points Earned	Total Possible 2012-14 Points	%
1	Residential Customer Service Satisfaction: Percentage of Residential Customers who contact Efficiency Vermont and are satisfied or very satisfied with Efficiency Vermont Customer Service will be greater than or equal to 80%	performance period	NA	12	12	12	100%
2	Business Customer Service Satisfaction: Percentage of Business Customers who contact Efficiency Vermont and are satisfied or very satisfied with Efficiency Vermont Customer Service will be greater than or equal to 80%	performance period	80%	12	12	12	100%
3	Customer Satisfaction upon Project Completion: Per each market segment, annual percentage of survey respondents with average service ratings of 3 (or better) shall be \geq 90%	annually	99%	4	12	12	100%
4	Average answer time shall be \leq 15 seconds per call	quarterly	9	1	12	12	100%
5	Average percentage of calls answered shall be \geq 92%	quarterly	94%	1	12	12	100%
6	Average percentage of abandoned calls shall be \leq 3%	quarterly	1%	1	12	12	100%
7	Percentage of complaint follow-up call attempted by end of next business day shall be \geq 95%	quarterly	100%	1	12	12	100%
8	Percentage of complaints closed within 12 business days of initial complaint call shall be \geq 95%	quarterly	100%	1	11	12	92%
9	For each reporting year, the ratio of total complaints received per total number of Efficiency Vermont participants shall be \leq 0.5% (one-half of one percent)	annually	0.01%	4	12	12	100%
Totals				37	107	108	99%

3.7 Electric Resource Acquisition Summary

Services	Totals				Business Energy Services		Residential Energy Services			Other
	All Resource Acquisition (including CC)	Efficiency Vermont Resource Acquisition	Subtotal Business Energy Services	Subtotal Residential Energy Services	Business New Construction	Business Existing Facilities	Residential New Construction	Efficient Products	Existing Homes	Customer Credit Program
Electric Resource Acquisition Costs										
Year to Date Costs	\$41,812,240	\$40,963,362	\$25,283,467	\$15,679,895	\$3,152,429	\$22,131,038	\$2,521,339	\$9,413,216	\$3,745,340	\$848,878
Annual Budget Estimate ¹	\$41,812,779	\$40,838,396	\$23,469,185	\$17,369,212	\$3,859,112	\$19,610,072	\$3,106,683	\$8,723,891	\$5,538,637	\$974,382
Unspent Annual Budget Estimate	\$538	(\$124,965)	(\$1,814,282)	\$1,689,317	\$706,684	(\$2,520,965)	\$585,345	(\$689,325)	\$1,793,297	\$125,504
% Annual Budget Estimate Unspent	0%	0%	-8%	10%	18%	-13%	19%	-8%	32%	13%
Savings Results										
MWh Year to Date	91,159	91,146	55,667	35,479	9,401	46,266	1,761	30,551	3,167	13
MWh Cumulative starting 1/1/12	292,063	286,907	174,214	112,693	34,884	139,329	4,976	98,734	8,984	5,156
3-Year MWh Goal	nap	274,000	193,200	80,800	26,400	166,800	4,000	65,800	11,000	nap
% of 3-Year MWh Goal	nap	105%	90%	139%	132%	84%	124%	150%	82%	nap
Winter Coincident Peak kW Year to Date	16,519	16,514	8,741	7,773	1,281	7,459	329	6,790	654	5
Winter Coincident Peak kW Cumulative starting 1/1/12	55,261	54,477	26,072	28,405	4,383	21,689	1,042	25,601	1,762	785
Summer Coincident Peak kW Year to Date	10,326	10,321	6,138	4,183	1,368	4,770	190	3,688	306	5
Summer Coincident Peak kW Cumulative starting 1/1/12	36,762	35,979	21,303	14,676	4,938	16,365	568	13,289	819	783
3-Year Summer Coincident Peak kW Goal	nap	41,920	29,220	12,700	5,100	24,120	800	10,600	1,300	nap
% of 3-Year Summer Coincident Peak kW Goal	nap	86%	73%	116%	97%	68%	71%	125%	63%	nap
TRB Year to Date	\$82,129,788	\$82,101,439	\$52,129,294	\$29,972,145	\$11,623,812	\$40,505,483	\$6,514,558	\$20,921,796	\$2,535,791	\$28,349
TRB Cumulative starting 1/1/12	\$289,655,512	\$284,290,061	\$183,162,130	\$101,127,931	\$53,525,957	\$129,636,173	\$23,653,870	\$68,198,711	\$9,275,350	\$5,365,451
3-Year TRB Goal	nap	\$305,984,400	\$205,215,200	\$100,769,200	\$29,586,596	\$175,628,583	\$26,959,595	\$53,725,933	\$20,083,646	nap
% of 3-Year TRB Goal	nap	93%	89%	100%	181%	74%	88%	127%	46%	nap
Associated Benefits										
MMBtu Year to Date	41,286	41,286	32,658	8,629	7,078	25,580	12,060	(3,705)	274	0
MMBtu Cumulative starting 1/1/12	146,069	146,428	117,240	29,188	55,828	61,412	39,750	(11,413)	851	(359)
Participation										
Partic.w/ installs Year to Date	54,135	54,134	2,489	51,645	192	2,297	1,458	36,990	13,197	1
Partic.w/ installs Cumulative starting 1/1/12	131,094	131,093	6,540	124,553	573	5,967	3,842	98,583	22,128	1

¹ Annual budgets are provided for information purposes only. Efficiency Vermont operates under three-year Board approved budgets.

3.8 Electric Resource Acquisition including Customer Credit

	<u>Prior Year</u>	<u>Current Year 2014</u>	<u>Cumulative starting 1/1/12</u>	<u>Cumulative starting 1/1/12</u>
# participants with installations	37,483	54,135	131,094	131,094
<u>Operating Costs</u>				
Administration	\$1,440,935	\$3,345,878	\$6,107,129	\$6,107,129
Operations and Implementation	\$4,944,156	\$5,077,234	\$14,289,871	\$14,289,871
Strategy and Planning	\$1,735,071	\$1,537,498	\$4,652,934	\$4,652,934
Subtotal Operating Costs	<u>\$8,120,163</u>	<u>\$9,960,610</u>	<u>\$25,049,934</u>	<u>\$25,049,934</u>
<u>Technical Assistance Costs</u>				
Services to Participants	\$4,924,708	\$3,987,615	\$13,596,176	\$13,596,176
Services to Trade Allies	\$392,440	\$1,559,789	\$2,296,467	\$2,296,467
Subtotal Technical Assistance Costs	<u>\$5,317,148</u>	<u>\$5,547,404</u>	<u>\$15,892,643</u>	<u>\$15,892,643</u>
<u>Support Services</u>				
Transportation	\$369	\$4,255	\$4,623	\$4,623
Targeted Implementation	\$4,584	\$1,407	\$5,991	\$5,991
Consulting	\$315,962	\$490,162	\$911,282	\$911,282
Marketing	\$2,507,460	\$2,177,538	\$5,973,105	\$5,973,105
EM&V	\$146,611	\$183,942	\$516,438	\$516,438
Policy	\$35,328	\$61,712	\$199,017	\$199,017
Information Technology	\$1,218	\$80,913	\$82,411	\$82,411
Customer Support	\$207,074	\$400,744	\$787,512	\$787,512
Business Development	\$24,833	\$19,090	\$51,065	\$51,065
Subtotal Support Services Costs	<u>\$3,243,439</u>	<u>\$3,419,764</u>	<u>\$8,531,443</u>	<u>\$8,531,443</u>
<u>Incentive Costs</u>				
Incentives to Participants	\$15,634,949	\$22,831,035	\$56,723,746	\$56,723,746
Incentives to Trade Allies	\$36,917	\$53,428	\$164,974	\$164,974
Subtotal Incentive Costs	<u>\$15,671,866</u>	<u>\$22,884,463</u>	<u>\$56,888,720</u>	<u>\$56,888,720</u>
Total Efficiency Vermont Costs	<u>\$32,352,615</u>	<u>\$41,812,241</u>	<u>\$106,362,740</u>	<u>\$106,362,740</u>
Total Participant Costs	\$23,822,816	\$22,482,896	\$47,632,567	\$47,632,567
Total Third Party Costs	<u>\$855,513</u>	<u>\$963,025</u>	<u>\$3,122,038</u>	<u>\$3,122,038</u>
Total Resource Acquisition Costs	<u>\$57,030,944</u>	<u>\$65,258,162</u>	<u>\$157,117,345</u>	<u>\$157,117,345</u>
<u>Annualized MWh Savings</u>				
Annualized MWh Savings	89,679	91,159	292,063	292,063
Lifetime MWh Savings	1,041,327	1,101,613	3,388,175	3,388,175
TRB Savings (2012 \$)	\$88,029,132	\$82,129,788	\$289,655,512	\$289,655,512
Winter Coincident Peak kW Savings	16,656	16,519	55,261	55,261
Summer Coincident Peak kW Savings	11,222	10,326	36,762	36,762
Annualized MWh Savings/Participant	2.393	1.684	2.228	2.228
Weighted Lifetime	11.6	12.1	11.6	11.6
Annualized MWh Savings (adjusted for measure life)				290,263
Winter Coincident Peak kW Savings (adjusted for measure life)				54,817
Summer Coincident Peak kW Savings (adjusted for measure life)				36,587

3.9 Electric Resource Acquisition excluding Customer Credit

	<u>Prior Year</u>	<u>Current Year 2014</u>	<u>Cumulative starting 1/1/12</u>	<u>Cumulative starting 1/1/12</u>
# participants with installations	37,482	54,134	131,093	131,093
<u>Operating Costs</u>				
Administration	\$1,403,504	\$3,251,821	\$5,967,931	\$5,967,931
Operations and Implementation	\$4,938,142	\$5,041,412	\$14,243,354	\$14,243,354
Strategy and Planning	\$1,734,846	\$1,536,195	\$4,651,203	\$4,651,203
Subtotal Operating Costs	<u>\$8,076,492</u>	<u>\$9,829,427</u>	<u>\$24,862,489</u>	<u>\$24,862,489</u>
<u>Technical Assistance Costs</u>				
Services to Participants	\$4,910,593	\$3,960,700	\$13,533,039	\$13,533,039
Services to Trade Allies	\$390,635	\$1,550,011	\$2,279,143	\$2,279,143
Subtotal Technical Assistance Costs	<u>\$5,301,228</u>	<u>\$5,510,711</u>	<u>\$15,812,182</u>	<u>\$15,812,182</u>
<u>Support Services</u>				
Transportation	\$368	\$4,219	\$4,587	\$4,587
Targeted Implementation	\$4,560	\$1,397	\$5,957	\$5,957
Consulting	\$315,626	\$486,521	\$907,151	\$907,151
Marketing	\$2,501,344	\$2,164,691	\$5,950,771	\$5,950,771
EM&V	\$145,587	\$182,632	\$513,021	\$513,021
Policy	\$35,204	\$60,970	\$192,698	\$192,698
Information Technology	\$1,212	\$80,370	\$81,860	\$81,860
Customer Support	\$206,716	\$397,867	\$783,851	\$783,851
Business Development	\$24,713	\$18,575	\$50,426	\$50,426
Subtotal Support Services Costs	<u>\$3,235,329</u>	<u>\$3,397,241</u>	<u>\$8,490,322</u>	<u>\$8,490,322</u>
<u>Incentive Costs</u>				
Incentives to Participants	\$13,782,194	\$22,172,567	\$54,067,857	\$54,067,857
Incentives to Trade Allies	\$36,917	\$53,416	\$164,962	\$164,962
Subtotal Incentive Costs	<u>\$13,819,111</u>	<u>\$22,225,983</u>	<u>\$54,232,819</u>	<u>\$54,232,819</u>
Total Efficiency Vermont Costs	<u>\$30,432,161</u>	<u>\$40,963,363</u>	<u>\$103,397,812</u>	<u>\$103,397,812</u>
Total Participant Costs	\$22,772,102	\$23,125,497	\$48,193,205	\$48,193,205
Total Third Party Costs	<u>\$855,513</u>	<u>\$963,025</u>	<u>\$3,122,038</u>	<u>\$3,122,038</u>
Total Resource Acquisition Costs	<u>\$54,059,776</u>	<u>\$65,051,885</u>	<u>\$154,713,055</u>	<u>\$154,713,055</u>
<u>Annualized MWh Savings</u>				
Annualized MWh Savings	85,582	91,146	286,907	286,907
Lifetime MWh Savings	982,537	1,101,360	3,313,438	3,313,438
TRB Savings (2012 \$)	\$83,830,177	\$82,101,439	\$284,290,061	\$284,290,061
Winter Coincident Peak kW Savings	15,993	16,514	54,477	54,477
Summer Coincident Peak kW Savings	10,561	10,321	35,979	35,979
Annualized MWh Savings/Participant	2.283	1.684	2.189	2.189
Weighted Lifetime	11.5	12.1	11.5	11.5
<u>Annualized MWh Savings (adjusted for measure life)</u>				
Annualized MWh Savings (adjusted for measure life)			285,107	
<u>Winter Coincident Peak kW Savings (adjusted for measure life)</u>				
Winter Coincident Peak kW Savings (adjusted for measure life)			54,032	
<u>Summer Coincident Peak kW Savings (adjusted for measure life)</u>				
Summer Coincident Peak kW Savings (adjusted for measure life)			35,804	

3.10 Electric Resource Acquisition - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	1,162	3,174	2,967	49,363	201	457	9,407	0	\$725,507	\$770,939
Cooking and Laundry	3,786	910	761	12,732	130	97	3,515	29,327	\$280,271	\$1,251,453
Design Assistance	266	556	513	3,108	20	22	1,680	0	\$931,106	\$569,785
Electronics	15,190	3,604	3,830	16,934	407	414	147	0	\$464,262	-\$174,162
Hot Water Efficiency	13,067	1,014	890	12,265	148	83	2,081	7,795	\$397,282	\$274,402
Hot Water Fuel Switch	115	298	453	8,951	46	22	-1,226	0	\$40,456	\$113,248
Industrial Process Eff.	80	16,309	17,267	206,716	3,513	1,063	15,496	-1,009	\$4,213,116	\$6,008,668
Lighting	44,318	49,771	50,251	594,055	10,118	6,468	-15,547	0	\$11,178,632	\$10,477,354
Motors	498	5,848	5,568	68,749	702	702	398	0	\$950,206	\$995,211
Other Efficiency	1,953	130	118	1,494	14	14	0	0	\$162,802	-\$144,216
Other Fuel Switch	249	227	228	5,333	34	33	-1,100	0	\$34,925	\$227,198
Other Indirect Activity	21	0	0	0	0	0	5,102	0	\$862,206	-\$862,206
Refrigeration	3,924	5,858	5,632	62,133	605	613	481	27	\$1,092,289	\$744,782
Space Heat Efficiency	905	2,170	2,033	41,959	458	91	14,848	0	\$625,201	\$2,204,768
Space Heat Fuel Switch	6	155	163	4,636	31	0	-305	0	\$11,260	\$59,316
Ventilation	959	1,086	1,012	12,721	79	236	6,263	0	\$199,929	\$606,258
Water Conservation	6	36	34	208	6	5	46	196	\$3,117	\$2,699
Totals		91,146	91,719	1,101,360	16,514	10,321	41,286	36,335	\$22,172,567	\$23,125,497

3.11. Electric Resource Acquisition - Utility Breakdown

Utility	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU Saved	Net Water CCF Saved	Participant Incentives Paid	Participant Costs	Net TRB Saved
Barton	289	134	136	1,619	24	15	65	73	\$52,303	\$21,140	\$109,818
Burlington	15	4	3	69	1	0	1	10	\$906	\$2,237	\$5,478
Enosburg Falls	302	415	431	5,384	73	47	-155	146	\$84,140	\$114,007	\$319,189
Green Mountain	40,691	75,281	75,875	914,904	13,450	8,423	35,406	27,909	\$17,788,244	\$18,746,167	\$66,998,949
Hardwick	1,151	563	595	6,581	115	71	-92	380	\$153,370	\$83,401	\$400,939
Hyde Park	237	227	250	2,554	46	25	-32	108	\$58,257	\$33,927	\$157,410
Jacksonville	74	20	20	242	4	2	0	26	\$7,492	\$6,159	\$15,300
Johnson	240	148	152	1,675	31	18	-45	38	\$39,598	\$27,256	\$98,100
Ludlow	229	435	441	4,364	114	102	281	140	\$103,736	\$93,714	\$445,304
Lyndonville	917	1,080	1,113	12,565	201	122	1,089	349	\$317,364	\$289,315	\$1,138,719
Morrisville	572	768	816	8,512	157	108	274	464	\$216,475	\$105,909	\$660,949
Northfield	310	829	767	10,941	133	106	-307	109	\$151,215	\$400,291	\$667,860
Orleans	157	437	440	1,653	49	85	-6	21	\$42,783	\$7,769	\$107,234
Stowe	358	1,988	1,952	23,386	417	264	-369	385	\$487,309	\$932,959	\$1,539,877
Swanton	682	829	873	9,667	148	93	180	448	\$246,753	\$185,515	\$680,646
VT Electric Coop	6,092	7,086	6,990	85,328	1,377	736	4,441	4,590	\$2,126,802	\$1,767,608	\$7,757,868
Washington Electric	1,818	902	865	11,917	175	102	555	1,139	\$295,821	\$308,123	\$997,800
Totals		91,146	91,719	1,101,360	16,514	10,321	41,286	36,335	\$22,172,567	\$23,125,497	\$82,101,439

3.12 Electric Resource Acquisition - County Breakdown

County	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Addison	3,311	4,851	4,716	63,013	874	719	2,681	1,053	\$1,065,860	\$778,126
Bennington	3,570	5,396	5,592	60,664	1,039	614	1,883	2,149	\$1,301,970	\$1,388,594
Caledonia	3,122	2,752	2,851	31,355	537	365	1,288	1,423	\$788,855	\$567,568
Chittenden	8,167	21,044	20,740	256,242	3,423	2,606	4,393	10,360	\$3,875,423	\$4,998,527
Essex	523	665	661	6,175	125	74	-53	226	\$135,779	\$53,533
Franklin	5,404	10,179	9,964	117,925	1,535	1,224	8,574	3,290	\$2,402,132	\$1,970,193
Grand Isle	1,367	786	747	10,123	137	102	54	696	\$208,117	\$182,788
Lamoille	2,273	4,676	4,747	55,451	991	559	1,237	1,657	\$1,476,877	\$1,473,754
Orange	3,404	2,504	2,464	31,598	469	323	189	1,344	\$684,223	\$604,505
Orleans	2,961	3,426	3,469	39,006	670	394	2,321	1,550	\$873,479	\$818,308
Rutland	5,331	8,852	9,326	96,282	1,750	880	7,821	3,242	\$2,781,434	\$2,343,966
Washington	4,972	11,026	11,217	138,152	2,036	1,213	-2,330	3,081	\$2,780,151	\$3,177,944
Windham	4,017	9,517	9,833	130,738	1,946	617	11,695	3,182	\$2,628,125	\$3,499,649
Windsor	5,712	5,471	5,392	64,637	982	631	1,532	3,081	\$1,170,143	\$1,268,042
Totals	54,134	91,146	91,719	1,101,360	16,514	10,321	41,286	36,335	\$22,172,567	\$23,125,497

3.13 Electric Resource Acquisition Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	\$68,285,713
Fossil Fuel Savings (Costs)	\$733,643	\$10,159,574
Water Savings (Costs)	\$268,948	\$3,655,827
Total	\$1,002,591	\$82,101,439

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	91,719	80,863	91,146
Winter on peak	35,361	31,074	35,268
Winter off peak	29,298	25,742	29,395
Summer on peak	14,486	12,937	12,937
Summer off peak	12,575	11,115	12,304
<u>Coincident Demand Savings (kW)</u>			
Winter	18,243	15,013	16,514
Shoulder	0	0	0
Summer	10,750	9,341	10,321

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	34,795	36,335	447,659
Annualized fuel savings (increase) MMBtu Total	44,029	41,286	621,499
LP	12,057	11,897	228,903
NG	16,754	16,765	223,182
Oil/Kerosene	12,240	10,668	147,022
Wood	1,914	2,010	22,100
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	\$3,822,159	\$3,592,184	\$38,355,185

Net Societal Benefits	\$105,205,319
------------------------------	----------------------

3.14 Electric Business Energy Services Summary

	<u>Prior Year</u>	<u>Current Year 2014</u>	<u>Cumulative starting 1/1/12</u>
# participants with installations	2,297	2,489	6,540
<u>Operating Costs</u>			
Administration	\$654,544	\$2,044,812	\$3,252,661
Operations and Implementation	\$1,559,630	\$2,124,418	\$4,911,559
Strategy and Planning	\$1,597,430	\$1,445,550	\$4,231,344
Subtotal Operating Costs	<u>\$3,811,605</u>	<u>\$5,614,780</u>	<u>\$12,395,563</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$3,319,272	\$3,079,666	\$9,370,650
Services to Trade Allies	\$273,687	\$1,141,879	\$1,646,454
Subtotal Technical Assistance Costs	<u>\$3,592,959</u>	<u>\$4,221,545</u>	<u>\$11,017,104</u>
<u>Support Services</u>			
Transportation	\$46	\$901	\$948
Targeted Implementation	\$1,613	\$1,073	\$2,685
Consulting	\$185,927	\$237,672	\$450,050
Marketing	\$722,475	\$860,847	\$2,023,413
EM&V	\$112,795	\$107,651	\$358,634
Policy	\$14,345	\$28,544	\$81,494
Information Technology	\$429	\$1,585	\$2,111
Customer Support	\$100,546	\$227,459	\$410,874
Business Development	\$9,849	\$1,500	\$17,899
Subtotal Support Services Costs	<u>\$1,148,026</u>	<u>\$1,467,232</u>	<u>\$3,348,107</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$8,317,652	\$13,941,464	\$33,401,641
Incentives to Trade Allies	\$27,545	\$38,446	\$134,579
Subtotal Incentive Costs	<u>\$8,345,196</u>	<u>\$13,979,910</u>	<u>\$33,536,221</u>
Total Efficiency Vermont Costs	<u>\$16,897,785</u>	<u>\$25,283,468</u>	<u>\$60,296,995</u>
Total Participant Costs	\$17,351,265	\$16,301,197	\$38,913,882
Total Third Party Costs	(\$0)	\$9,100	\$264,145
Total Resource Acquisition Costs	<u>\$34,249,049</u>	<u>\$41,593,765</u>	<u>\$99,475,022</u>

Annualized MWh Savings	50,859	55,667	174,214
Lifetime MWh Savings	667,804	717,433	2,264,862
TRB Savings (2012 \$)	\$54,166,544	\$52,129,294	\$183,162,130
Winter Coincident Peak kW Savings	7,600	8,741	26,072
Summer Coincident Peak kW Savings	6,053	6,138	21,303
Annualized MWh Savings/Participant	22.142	22.365	26.638
Weighted Lifetime	13.1	12.9	13.0

3.15 Electric Business Energy Services - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	192	2,978	2,760	46,772	189	419	9,407	0	\$679,971	\$727,146
Cooking and Laundry	20	29	27	426	4	6	523	416	\$7,769	\$52,222
Design Assistance	246	556	513	3,108	20	22	1,680	0	\$920,121	\$568,375
Electronics	119	289	253	1,362	71	4	147	0	\$13,728	\$77,599
Hot Water Efficiency	79	72	65	673	12	11	1,516	1,648	\$25,765	\$18,886
Hot Water Fuel Switch	3	45	49	1,353	7	2	-155	0	\$2,111	\$23,918
Industrial Process Eff.	80	16,309	17,267	206,716	3,513	1,063	15,496	-1,009	\$4,213,116	\$6,008,668
Lighting	1,964	24,258	21,649	327,082	3,595	3,339	-10,683	0	\$5,825,321	\$6,784,187
Motors	149	5,249	5,015	58,673	609	611	398	0	\$706,302	\$921,948
Other Efficiency	133	130	118	1,494	14	14	0	0	\$60,502	-\$38,916
Other Fuel Switch	3	146	143	2,925	17	19	-829	0	\$19,356	\$216,517
Other Indirect Activity	5	0	0	0	0	0	5,102	0	\$842,206	-\$842,206
Refrigeration	195	3,893	3,534	42,998	426	387	481	27	\$378,882	\$422,672
Space Heat Efficiency	52	616	601	9,034	172	16	3,778	0	\$62,562	\$737,264
Space Heat Fuel Switch	4	138	147	4,153	23	0	-251	0	\$11,260	\$46,480
Ventilation	92	941	884	10,489	65	221	5,999	0	\$169,374	\$575,209
Water Conservation	2	17	17	173	4	4	46	196	\$3,117	\$1,229
Totals		55,667	53,042	717,433	8,741	6,138	32,658	1,278	\$13,941,464	\$16,301,197

3.16 Electric Residential Energy Services Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	35,185	51,645	124,553
<u>Operating Costs</u>			
Administration	\$748,960	\$1,207,009	\$2,715,271
Operations and Implementation	\$3,378,512	\$2,916,993	\$9,331,796
Strategy and Planning	\$137,416	\$90,645	\$419,859
Subtotal Operating Costs	\$4,264,888	\$4,214,647	\$12,466,925
<u>Technical Assistance Costs</u>			
Services to Participants	\$1,591,321	\$881,034	\$4,162,389
Services to Trade Allies	\$116,948	\$408,132	\$632,689
Subtotal Technical Assistance Costs	\$1,708,269	\$1,289,166	\$4,795,078
<u>Support Services</u>			
Transportation	\$321	\$3,318	\$3,639
Targeted Implementation	\$2,947	\$324	\$3,272
Consulting	\$129,698	\$248,849	\$457,101
Marketing	\$1,778,869	\$1,303,844	\$3,927,358
EM&V	\$32,792	\$74,981	\$154,387
Policy	\$20,859	\$32,426	\$111,205
Information Technology	\$783	\$78,785	\$79,749
Customer Support	\$106,169	\$170,407	\$372,977
Business Development	\$14,864	\$17,075	\$32,527
Subtotal Support Services Costs	\$2,087,304	\$1,930,009	\$5,142,215
<u>Incentive Costs</u>			
Incentives to Participants	\$5,464,543	\$8,231,103	\$20,666,215
Incentives to Trade Allies	\$9,373	\$14,970	\$30,383
Subtotal Incentive Costs	\$5,473,915	\$8,246,073	\$20,696,598
Total Efficiency Vermont Costs	\$13,534,376	\$15,679,895	\$43,100,817
Total Participant Costs	\$5,420,837	\$6,824,300	\$9,279,323
Total Third Party Costs	\$855,514	\$953,925	\$2,857,893
Total Resource Acquisition Costs	\$19,810,726	\$23,458,120	\$55,238,033
<u>Annualized MWh Savings</u>			
Annualized MWh Savings	34,723	35,479	112,693
Lifetime MWh Savings	314,733	383,927	1,048,576
TRB Savings (2012 \$)	\$29,663,633	\$29,972,145	\$101,127,931
Winter Coincident Peak kW Savings	8,393	7,773	28,405
Summer Coincident Peak kW Savings	4,508	4,183	14,676
Annualized MWh Savings/Participant	0.987	0.687	0.905
Weighted Lifetime	9.1	10.8	9.3

3.17 Electric Residential Energy Services - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	970	196	206	2,591	12	39	0	0	\$45,536	\$43,794
Cooking and Laundry	3,766	882	733	12,306	125	92	2,991	28,910	\$272,502	\$1,199,231
Design Assistance	20	0	0	0	0	0	0	0	\$10,985	\$1,410
Electronics	15,071	3,314	3,577	15,572	336	410	0	0	\$450,534	-\$251,761
Hot Water Efficiency	12,988	942	825	11,592	136	72	564	6,146	\$371,518	\$255,516
Hot Water Fuel Switch	112	253	403	7,598	39	20	-1,071	0	\$38,345	\$89,330
Lighting	42,354	25,513	28,601	266,973	6,523	3,129	-4,864	0	\$5,353,310	\$3,693,167
Motors	349	599	554	10,076	93	91	0	0	\$243,904	\$73,263
Other Efficiency	1,820	0	0	0	0	0	0	0	\$102,300	-\$105,300
Other Fuel Switch	246	80	85	2,408	18	14	-271	0	\$15,568	\$10,681
Other Indirect Activity	16	0	0	0	0	0	0	0	\$20,000	-\$20,000
Refrigeration	3,729	1,965	2,098	19,136	179	227	0	0	\$713,407	\$322,111
Space Heat Efficiency	853	1,554	1,432	32,925	286	75	11,069	0	\$562,639	\$1,467,503
Space Heat Fuel Switch	2	16	16	484	8	0	-54	0	\$0	\$12,836
Ventilation	867	145	128	2,232	14	14	264	0	\$30,556	\$31,050
Water Conservation	4	19	17	35	2	1	0	0	\$0	\$1,470
Totals		35,479	38,677	383,927	7,773	4,183	8,629	35,057	\$8,231,103	\$6,824,300

3.18 Thermal Energy and Process Fuels Resource Acquisition Summary

Services				Business Energy Services		Residential Energy Services		
	Efficiency Vermont Services and Initiatives	Subtotal Business Energy Services	Subtotal Residential Energy Services	Business New Construction	Business Existing Facilities	Residential New Construction	Efficient Products	Existing Homes
Costs								
Year to Date Costs	\$5,426,218	\$784,854	\$4,641,364	\$12,559	\$772,295	\$2,406	\$394,845	\$4,244,113
Annual Budget Estimate ¹	\$5,428,263	\$1,985,684	\$3,442,578	\$239,894	\$1,745,790	\$3,000	\$180,000	\$3,259,578
Unspent Annual Budget Estimate	\$2,044	\$1,200,830	(\$1,198,786)	\$227,335	\$973,495	\$594	(\$214,845)	(\$984,535)
% Annual Budget Estimate Unspent	0%	60%	-35%	95%	56%	20%	-119%	-30%
Savings Results								
MMBtu Year to Date	36,534	11,667	24,867	1,561	10,106	(1)	6,439	18,429
MMBtu Cumulative starting 1/1/12	168,795	96,671	72,124	27,548	69,123	642	6,439	65,042
3-Year MMBtu Goal	155,000	94,200	60,800	30,000	64,200	800	800	60,000
% of 3-Year MMBtu Goal	109%	103%	119%	92%	108%	80%	805%	108%
Associated Electric Benefits								
MWh Year to Date	(774)	116	(890)	(0)	116	(1)	(992)	102
MWh Cumulative starting 1/1/12	(499)	(115)	(385)	25	(139)	(5)	(992)	612
Winter Coincident Peak kW Year to Date	(59)	34	(94)	3	31	(0)	(153)	59
Winter Coincident Peak kW Cumulative starting 1/1/12	179	12	167	(35)	47	(1)	(153)	321
Summer Coincident Peak kW Year to Date	(65)	13	(78)	3	10	(0)	(78)	(0)
Summer Coincident Peak kW Cumulative starting 1/1/12	(101)	(24)	(76)	32	(56)	(0)	(78)	2
Participation								
Partic.w/ installs Year to Date	3,351	249	3,102	15	234	16	338	2,748
Partic.w/ installs Cumulative starting 1/1/12	8,320	616	7,704	82	534	89	338	7,277

¹ Annual budgets are provided for information purposes only. Efficiency Vermont operates under three-year Board approved budgets.

3.19 Thermal Energy and Process Fuels Resource Acquisition

	<u>Prior Year</u>	<u>Current Year 2014</u>	<u>Cumulative starting 1/1/12</u>
# participants with installations	2,831	3,351	8,320
<u>Operating Costs</u>			
Administration	\$150,800	\$426,546	\$735,230
Operations and Implementation	\$1,359,493	\$1,130,979	\$3,060,702
<u>Strategy and Planning</u>	<u>\$79,422</u>	<u>\$42,615</u>	<u>\$153,563</u>
Subtotal Operating Costs	<u>\$1,589,715</u>	<u>\$1,600,141</u>	<u>\$3,949,496</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$166,071	\$443,724	\$643,107
<u>Services to Trade Allies</u>	<u>\$37</u>	<u>\$496</u>	<u>\$543</u>
Subtotal Technical Assistance Costs	<u>\$166,108</u>	<u>\$444,220</u>	<u>\$643,650</u>
<u>Support Services</u>			
Transportation	\$43	\$670	\$713
Targeted Implementation	\$586	\$77	\$664
Consulting	\$46,861	\$159,248	\$213,215
Marketing	\$425,328	\$358,061	\$853,915
EM&V	\$7,294	\$21,788	\$37,987
Policy	\$3,604	\$10,895	\$19,755
Information Technology	\$156	\$28,050	\$28,244
Customer Support	\$33,569	\$88,170	\$135,997
<u>Business Development</u>	<u>\$2,927</u>	<u>\$4,054</u>	<u>\$7,083</u>
Subtotal Support Services Costs	<u>\$520,369</u>	<u>\$671,012</u>	<u>\$1,297,573</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$2,272,910	\$2,577,384	\$7,590,798
<u>Incentives to Trade Allies</u>	<u>\$156,383</u>	<u>\$133,462</u>	<u>\$394,471</u>
Subtotal Incentive Costs	<u>\$2,429,293</u>	<u>\$2,710,845</u>	<u>\$7,985,269</u>
<u>Total Efficiency Vermont Costs</u>	<u>\$4,705,485</u>	<u>\$5,426,218</u>	<u>\$13,875,987</u>
Total Participant Costs	\$8,866,159	\$6,677,720	\$17,750,454
<u>Total Third Party Costs</u>	<u>\$322,812</u>	<u>\$284,124</u>	<u>\$1,332,760</u>
Total Resource Acquisition Costs	<u>\$13,894,456</u>	<u>\$12,388,062</u>	<u>\$32,959,200</u>
<u>Annualized MMBtu Savings</u>			
Annualized MMBtu Savings	53,899	36,534	168,795
Lifetime MMBtu Savings	929,260	599,349	2,933,649
TRB Savings (2012 \$)	\$19,223,959	\$11,795,243	\$60,757,079
Annualized MMBtu Savings/Participant	19.039	10.902	20.288
Weighted Lifetime	17.2	16.4	17.4

3.20 Thermal Energy and Process Fuels Services & Initiatives - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	11	-36	-35	-539	-19	0	274	0	\$0	\$67,312
Cooking and Laundry	29	0	0	3	0	0	476	0	\$13,250	\$32,874
Hot Water Efficiency	497	-996	-858	-12,941	-154	-78	7,768	92	\$389,194	-\$73,098
Hot Water Fuel Switch	3	1	1	40	0	0	-17	0	\$0	\$2,800
Industrial Process Eff.	1	16	17	234	5	0	5,531	0	\$93,750	\$226,700
Motors	15	60	56	595	10	10	357	0	\$2,200	\$6,882
Other Efficiency	1,159	0	0	0	0	0	0	0	\$1,000	-\$1,000
Other Indirect Activity	166	0	0	0	0	0	0	0	\$349,334	-\$239,205
Space Heat Efficiency	2,772	209	208	3,822	107	0	21,006	2	\$1,683,798	\$5,678,498
Space Heat Fuel Switch	88	-27	-30	-684	-12	0	860	0	\$44,107	\$843,265
Ventilation	138	0	0	-3	3	3	279	0	\$750	\$132,692
Totals		-774	-640	-9,473	-59	-65	36,534	93	\$2,577,384	\$6,677,720

3.21 Thermal Energy and Process Fuels Resource Acquisition Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	(\$538,904)
Fossil Fuel Savings (Costs)	\$1,003,611	\$12,326,856
Water Savings (Costs)	\$697	\$7,291
Total	\$1,004,308	\$11,795,243

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	(640)	(686)	(774)
Winter on peak	(247)	(266)	(302)
Winter off peak	(178)	(196)	(213)
Summer on peak	(116)	(120)	(120)
Summer off peak	(100)	(104)	(115)
<u>Coincident Demand Savings (kW)</u>			
Winter	(41)	(54)	(59)
Shoulder	0	0	0
Summer	(56)	(58)	(65)

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	102	93	856
Annualized fuel savings (increase) MMBtu Total	39,764	36,534	599,349
LP	10,565	10,237	167,597
NG	0	0	0
Oil/Kerosene	33,956	30,064	481,370
Wood	(4,754)	(3,760)	(49,592)
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	\$761	\$745	(\$8,328)

Net Societal Benefits	\$9,188,564
------------------------------	--------------------

3.22 Thermal Energy and Process Fuels Business Energy Services Summary

	<u>Prior Year</u>	<u>Current Year 2014</u>	<u>Cumulative starting 1/1/12</u>
# participants with installations	204	249	616
<u>Operating Costs</u>			
Administration	\$12,333	\$51,786	\$76,856
Operations and Implementation	\$16,277	\$5,246	\$33,546
<u>Strategy and Planning</u>	<u>\$15,266</u>	<u>\$8,573</u>	<u>\$33,082</u>
Subtotal Operating Costs	<u>\$43,876</u>	<u>\$65,606</u>	<u>\$143,484</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$5,790	\$209,683	\$225,765
<u>Services to Trade Allies</u>	<u>\$10</u>	<u>\$0</u>	<u>\$20</u>
Subtotal Technical Assistance Costs	<u>\$5,800</u>	<u>\$209,683</u>	<u>\$225,784</u>
<u>Support Services</u>			
Transportation	\$0	\$236	\$236
Targeted Implementation	\$21	\$65	\$86
Consulting	\$516	\$24,019	\$25,895
Marketing	\$2,774	\$84,753	\$90,407
EM&V	\$632	\$11,587	\$13,257
Policy	\$68	\$4,900	\$8,077
Information Technology	\$6	\$3,586	\$3,593
Customer Support	\$858	\$39,452	\$42,124
<u>Business Development</u>	<u>\$106</u>	<u>\$3,396</u>	<u>\$3,506</u>
Subtotal Support Services Costs	<u>\$4,983</u>	<u>\$171,993</u>	<u>\$187,182</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$487,521	\$331,632	\$1,310,984
<u>Incentives to Trade Allies</u>	<u>\$5,664</u>	<u>\$5,940</u>	<u>\$18,004</u>
Subtotal Incentive Costs	<u>\$493,185</u>	<u>\$337,572</u>	<u>\$1,328,988</u>
<u>Total Efficiency Vermont Costs</u>	<u>\$547,844</u>	<u>\$784,854</u>	<u>\$1,885,437</u>
Total Participant Costs	\$2,645,200	\$826,154	\$4,912,309
<u>Total Third Party Costs</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Total Resource Acquisition Costs	<u>\$3,193,043</u>	<u>\$1,611,008</u>	<u>\$6,797,746</u>
<u>Annualized MMBtu Savings</u>			
Annualized MMBtu Savings	33,128	11,667	96,671
Lifetime MMBtu Savings	546,944	172,637	1,636,209
TRB Savings (2012 \$)	\$10,919,641	\$3,645,338	\$35,195,687
Annualized MMBtu Savings/Participant	162.391	46.856	156.934
Weighted Lifetime	16.5	14.8	16.9

3.23 Thermal Energy and Process Fuels Business Energy Services - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Cooking and Laundry	17	0	0	3	0	0	476	0	\$13,250	\$31,504
Hot Water Efficiency	16	0	0	0	0	0	896	0	\$33,750	\$23,077
Industrial Process Eff.	1	16	17	234	5	0	5,531	0	\$93,750	\$226,700
Motors	1	59	56	591	9	10	342	0	\$2,200	\$4,712
Other Efficiency	109	0	0	0	0	0	0	0	\$1,000	-\$1,000
Other Indirect Activity	2	0	0	0	0	0	0	0	\$94,495	\$270
Space Heat Efficiency	147	42	42	743	17	0	4,099	0	\$87,437	\$376,026
Space Heat Fuel Switch	3	-1	-1	-9	0	0	211	0	\$5,000	\$158,210
Ventilation	1	0	0	-3	3	3	112	0	\$750	\$6,656
Totals		116	114	1,559	34	13	11,667	0	\$331,632	\$826,154

3.24 Thermal Energy and Process Fuels Residential Energy Services Summary

	<u>Prior Year</u>	<u>Current Year 2014</u>	<u>Cumulative starting 1/1/12</u>
# participants with installations	2,627	3,102	7,704
<u>Operating Costs</u>			
Administration	\$138,467	\$374,760	\$658,374
Operations and Implementation	\$1,343,216	\$1,125,733	\$3,027,156
<u>Strategy and Planning</u>	<u>\$64,156</u>	<u>\$34,042</u>	<u>\$120,482</u>
Subtotal Operating Costs	<u>\$1,545,839</u>	<u>\$1,534,536</u>	<u>\$3,806,012</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$160,281	\$234,041	\$417,343
Services to Trade Allies	\$27	\$496	\$523
Subtotal Technical Assistance Costs	<u>\$160,308</u>	<u>\$234,537</u>	<u>\$417,866</u>
<u>Support Services</u>			
Transportation	\$43	\$434	\$477
Targeted Implementation	\$565	\$13	\$578
Consulting	\$46,344	\$135,229	\$187,320
Marketing	\$422,554	\$273,308	\$763,508
EM&V	\$6,662	\$10,201	\$24,730
Policy	\$3,536	\$5,995	\$11,678
Information Technology	\$150	\$24,463	\$24,650
Customer Support	\$32,711	\$48,718	\$93,873
<u>Business Development</u>	<u>\$2,821</u>	<u>\$658</u>	<u>\$3,577</u>
Subtotal Support Services Costs	<u>\$515,386</u>	<u>\$499,019</u>	<u>\$1,110,391</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$1,785,390	\$2,245,751	\$6,279,814
Incentives to Trade Allies	\$150,719	\$127,522	\$376,467
Subtotal Incentive Costs	<u>\$1,936,110</u>	<u>\$2,373,273</u>	<u>\$6,656,281</u>
<u>Total Efficiency Vermont Costs</u>	<u>\$4,157,642</u>	<u>\$4,641,364</u>	<u>\$11,990,550</u>
Total Participant Costs	\$6,220,960	\$5,851,566	\$12,838,145
<u>Total Third Party Costs</u>	<u>\$322,812</u>	<u>\$284,124</u>	<u>\$1,332,760</u>
Total Resource Acquisition Costs	<u>\$10,701,414</u>	<u>\$10,777,054</u>	<u>\$26,161,454</u>
<u>Annualized MMBtu Savings</u>			
Annualized MMBtu Savings	20,771	24,867	72,124
Lifetime MMBtu Savings	382,316	426,712	1,297,439
TRB Savings (2012\$)	\$8,304,318	8,149,904	\$25,561,391
Annualized MMBtu Savings/Participant	7.907	8.016	9.362
Weighted Lifetime	18.4	17.2	18.0

3.25 Thermal Energy and Process Fuels Residential Energy Services - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	11	-36	-35	-539	-19	0	274	0	\$0	\$67,312
Cooking and Laundry	12	0	0	0	0	0	0	0	\$0	\$1,370
Hot Water Efficiency	481	-996	-858	-12,941	-154	-78	6,872	92	\$355,444	-\$96,175
Hot Water Fuel Switch	3	1	1	40	0	0	-17	0	\$0	\$2,800
Motors	14	0	0	4	0	0	15	0	\$0	\$2,170
Other Efficiency	1,050	0	0	0	0	0	0	0	\$0	\$0
Other Indirect Activity	164	0	0	0	0	0	0	0	\$254,839	-\$239,475
Space Heat Efficiency	2,625	167	166	3,079	90	0	16,907	2	\$1,596,361	\$5,302,471
Space Heat Fuel Switch	85	-27	-30	-675	-12	0	649	0	\$39,107	\$685,056
Ventilation	137	0	0	0	0	0	167	0	\$0	\$126,036
Totals		-890	-755	-11,032	-94	-78	24,867	93	\$2,245,752	\$5,851,566

4. MAJOR MARKET RESOURCE ACQUISITION RESULTS

4.1 Electric Business New Construction Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	187	192	573
<u>Operating Costs</u>			
Administration	\$168,073	\$207,602	\$505,594
Operations and Implementation	\$273,134	\$388,554	\$842,851
Strategy and Planning	\$560,470	\$282,473	\$1,304,521
Subtotal Operating Costs	<u>\$1,001,677</u>	<u>\$878,629</u>	<u>\$2,652,966</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$1,073,623	\$772,599	\$2,752,636
Services to Trade Allies	\$80,784	\$187,498	\$334,688
Subtotal Technical Assistance Costs	<u>\$1,154,407</u>	<u>\$960,097</u>	<u>\$3,087,324</u>
<u>Support Services</u>			
Transportation	\$13	\$104	\$118
Targeted Implementation	\$466	\$29	\$494
Consulting	\$49,899	\$69,195	\$126,292
Marketing	\$211,493	\$37,905	\$382,575
EM&V	\$24,950	\$4,508	\$69,413
Policy	\$4,194	\$2,165	\$17,395
Information Technology	\$124	\$1,585	\$1,737
Customer Support	\$29,642	\$9,931	\$63,935
Business Development	\$2,348	\$1,500	\$3,942
Subtotal Support Services Costs	<u>\$323,130</u>	<u>\$126,921</u>	<u>\$665,901</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$1,255,868	\$1,183,579	\$3,845,231
Incentives to Trade Allies	\$3,412	\$3,203	\$23,309
Subtotal Incentive Costs	<u>\$1,259,281</u>	<u>\$1,186,782</u>	<u>\$3,868,540</u>
Total Efficiency Vermont Costs	<u>\$3,738,494</u>	<u>\$3,152,429</u>	<u>\$10,274,731</u>
Total Participant Costs	\$3,836,645	\$2,049,077	\$11,516,174
Total Third Party Costs	\$0	\$0	\$43
Total Resource Acquisition Costs	<u>\$7,575,138</u>	<u>\$5,201,506</u>	<u>\$21,790,948</u>
<u>Annualized MWh Savings</u>			
Annualized MWh Savings	10,173	9,401	34,884
Lifetime MWh Savings	142,722	136,174	506,901
TRB Savings (2012 \$)	\$13,512,066	\$11,623,812	\$53,525,957
Winter Coincident Peak kW Savings	1,227	1,281	4,383
Summer Coincident Peak kW Savings	1,399	1,368	4,938
Annualized MWh Savings/Participant	54.403	48.963	60.880
Weighted Lifetime	14.0	14.5	14.5

4.2 Electric Business New Construction - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	51	814	722	12,238	84	135	0	0	\$187,567	\$125,330
Cooking and Laundry	9	16	15	214	2	3	100	71	\$1,764	\$6,720
Design Assistance	12	11	10	114	1	1	0	0	\$25,455	\$96,602
Hot Water Efficiency	1	0	0	0	0	0	92	0	\$0	\$4,542
Industrial Process Eff.	4	1,278	1,287	21,751	243	241	2,771	-1,009	\$54,910	\$214,086
Lighting	177	4,207	3,734	60,629	548	664	-2,255	0	\$703,774	\$815,212
Motors	25	870	770	11,220	126	87	416	0	\$72,113	\$127,906
Other Efficiency	8	0	0	0	0	0	0	0	\$2,500	\$3,918
Other Fuel Switch	1	3	2	52	0	4	-10	0	\$256	\$4,066
Other Indirect Activity	1	0	0	0	0	0	0	0	\$4,783	-\$4,783
Refrigeration	28	1,795	1,595	22,940	208	195	0	15	\$80,982	\$221,399
Space Heat Efficiency	16	94	84	1,514	20	5	2,962	0	\$8,365	\$222,437
Space Heat Fuel Switch	1	78	81	2,332	17	0	-284	0	\$1,561	\$3,439
Ventilation	35	234	208	3,172	33	33	3,239	0	\$39,550	\$208,157
Water Conservation	1	0	0	0	0	0	46	76	\$0	\$44
Totals		9,401	8,509	136,174	1,281	1,368	7,078	-847	\$1,183,579	\$2,049,077

4.3 Electric Business New Construction Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	\$9,621,139
Fossil Fuel Savings (Costs)	\$114,203	\$2,165,253
Water Savings (Costs)	(\$6,333)	(\$162,581)
Total	\$107,870	\$11,623,811

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	8,509	8,331	9,401
Winter on peak	3,431	3,353	3,806
Winter off peak	2,326	2,282	2,560
Summer on peak	1,718	1,681	1,681
Summer off peak	1,034	1,015	1,124
<u>Coincident Demand Savings (kW)</u>			
Winter	1,184	1,165	1,281
Shoulder	0	0	0
Summer	1,256	1,238	1,368

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	(843)	(847)	(23,782)
Annualized fuel savings (increase) MMBtu Total	7,025	7,078	123,899
LP	3,804	3,804	82,274
NG	2,540	2,581	29,747
Oil/Kerosene	172	171	4,172
Wood	509	508	7,681
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	\$29,802	\$29,731	\$313,958

Net Societal Benefits	\$13,591,296
------------------------------	---------------------

4.4 Electric Business Existing Facilities Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	2,110	2,297	5,967
<u>Operating Costs</u>			
Administration	\$486,471	\$1,837,210	\$2,747,067
Operations and Implementation	\$1,286,496	\$1,735,865	\$4,068,707
Strategy and Planning	\$1,036,961	\$1,163,076	\$2,926,823
Subtotal Operating Costs	<u>\$2,809,928</u>	<u>\$4,736,151</u>	<u>\$9,742,598</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$2,245,649	\$2,307,067	\$6,618,015
Services to Trade Allies	\$192,903	\$954,381	\$1,311,766
Subtotal Technical Assistance Costs	<u>\$2,438,552</u>	<u>\$3,261,448</u>	<u>\$7,929,781</u>
<u>Support Services</u>			
Transportation	\$33	\$797	\$830
Targeted Implementation	\$1,147	\$1,044	\$2,191
Consulting	\$136,028	\$168,478	\$323,758
Marketing	\$510,981	\$822,942	\$1,640,838
EM&V	\$87,845	\$103,143	\$289,221
Policy	\$10,151	\$26,379	\$64,098
Information Technology	\$305	\$0	\$374
Customer Support	\$70,904	\$217,528	\$346,938
Business Development	\$7,502	\$0	\$13,957
Subtotal Support Services Costs	<u>\$824,896</u>	<u>\$1,340,311</u>	<u>\$2,682,206</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$7,061,783	\$12,757,884	\$29,556,410
Incentives to Trade Allies	\$24,132	\$35,243	\$111,270
Subtotal Incentive Costs	<u>\$7,085,916</u>	<u>\$12,793,127</u>	<u>\$29,667,680</u>
Total Efficiency Vermont Costs	<u>\$13,159,291</u>	<u>\$22,131,038</u>	<u>\$50,022,265</u>
Total Participant Costs	\$13,514,620	\$14,252,120	\$27,397,708
Total Third Party Costs	(\$0)	\$9,100	\$264,102
Total Resource Acquisition Costs	<u>\$26,673,911</u>	<u>\$36,392,258</u>	<u>\$77,684,075</u>
<u>Annualized MWh Savings</u>			
Annualized MWh Savings	40,686	46,266	139,329
Lifetime MWh Savings	525,082	581,258	1,757,961
TRB Savings (2012 \$)	\$40,654,478	\$40,505,483	\$129,636,173
Winter Coincident Peak kW Savings	6,374	7,459	21,689
Summer Coincident Peak kW Savings	4,654	4,770	16,365
Annualized MWh Savings/Participant	19.283	20.142	23.350
Weighted Lifetime	12.9	12.6	12.6

4.5 Electric Business Existing Facilities - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	141	2,163	2,038	34,534	105	283	9,407	0	\$492,405	\$601,816
Cooking and Laundry	11	12	12	212	2	3	423	345	\$6,005	\$45,502
Design Assistance	234	545	504	2,995	19	20	1,680	0	\$894,666	\$471,773
Electronics	119	289	253	1,362	71	4	147	0	\$13,728	\$77,599
Hot Water Efficiency	78	72	65	673	12	11	1,424	1,648	\$25,765	\$14,344
Hot Water Fuel Switch	3	45	49	1,353	7	2	-155	0	\$2,111	\$23,918
Industrial Process Eff.	76	15,031	15,979	184,966	3,270	822	12,725	0	\$4,158,206	\$5,794,582
Lighting	1,787	20,051	17,915	266,453	3,047	2,676	-8,428	0	\$5,121,547	\$5,968,974
Motors	124	4,380	4,245	47,453	483	525	-18	0	\$634,190	\$794,042
Other Efficiency	125	130	118	1,494	14	14	0	0	\$58,002	-\$42,834
Other Fuel Switch	2	144	140	2,873	17	15	-820	0	\$19,100	\$212,451
Other Indirect Activity	4	0	0	0	0	0	5,102	0	\$837,424	-\$837,424
Refrigeration	167	2,097	1,939	20,058	218	192	481	12	\$297,901	\$201,273
Space Heat Efficiency	36	522	517	7,520	152	11	817	0	\$54,197	\$514,827
Space Heat Fuel Switch	3	61	66	1,821	6	0	32	0	\$9,699	\$43,041
Ventilation	57	707	677	7,317	33	189	2,760	0	\$129,823	\$367,052
Water Conservation	1	17	17	173	4	4	0	120	\$3,117	\$1,185
Totals		46,266	44,533	581,258	7,459	4,770	25,580	2,125	\$12,757,884	\$14,252,120

4.6 Electric Business Existing Facilities Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	\$36,117,371
Fossil Fuel Savings (Costs)	\$487,399	\$4,253,903
Water Savings (Costs)	\$15,894	\$133,844
Total	\$503,293	\$40,505,119

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	44,533	41,051	46,266
Winter on peak	16,788	15,396	17,474
Winter off peak	14,738	13,443	15,597
Summer on peak	6,680	6,321	6,321
Summer off peak	6,327	5,892	6,522
<u>Coincident Demand Savings (kW)</u>			
Winter	7,518	6,781	7,459
Shoulder	0	0	0
Summer	4,536	4,317	4,770

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	2,353	2,125	15,516
Annualized fuel savings (increase) MMBtu Total	30,692	25,580	248,599
LP	3,362	3,086	34,687
NG	9,180	8,188	68,533
Oil/Kerosene	17,683	13,714	154,069
Wood	979	1,101	1,649
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	\$2,043,070	\$2,023,718	\$20,541,103

Net Societal Benefits	\$51,278,141
------------------------------	---------------------

4.7 Electric Residential New Construction Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	1,354	1,458	3,842
<u>Operating Costs</u>			
Administration	\$230,910	\$123,801	\$586,438
Operations and Implementation	\$753,879	\$588,417	\$2,007,306
Strategy and Planning	\$23,264	\$24,914	\$75,344
Subtotal Operating Costs	<u>\$1,008,053</u>	<u>\$737,132</u>	<u>\$2,669,088</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$1,078,636	\$588,585	\$2,615,859
Services to Trade Allies	\$21,485	\$29,815	\$69,104
Subtotal Technical Assistance Costs	<u>\$1,100,120</u>	<u>\$618,400</u>	<u>\$2,684,962</u>
<u>Support Services</u>			
Transportation	\$30	\$861	\$891
Targeted Implementation	\$1,047	\$236	\$1,283
Consulting	\$24,124	\$87,685	\$128,196
Marketing	\$330,920	\$309,399	\$825,154
EM&V	\$8,811	\$30,655	\$55,473
Policy	\$6,579	\$17,887	\$44,751
Information Technology	\$278	\$13,093	\$13,435
Customer Support	\$17,033	\$69,291	\$109,227
Business Development	\$5,282	\$12,397	\$17,888
Subtotal Support Services Costs	<u>\$394,105</u>	<u>\$541,504</u>	<u>\$1,196,298</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$361,397	\$622,766	\$1,300,622
Incentives to Trade Allies	\$923	\$1,537	\$2,471
Subtotal Incentive Costs	<u>\$362,320</u>	<u>\$624,303</u>	<u>\$1,303,093</u>
Total Efficiency Vermont Costs	<u>\$2,864,598</u>	<u>\$2,521,339</u>	<u>\$7,853,441</u>
Total Participant Costs	\$1,508,491	\$1,506,929	\$2,869,403
Total Third Party Costs	<u>\$32,296</u>	<u>\$61,422</u>	<u>\$118,226</u>
Total Resource Acquisition Costs	<u>\$4,405,385</u>	<u>\$4,089,689</u>	<u>\$10,841,070</u>
<u>Annualized MWh Savings</u>			
Annualized MWh Savings	1,635	1,761	4,976
Lifetime MWh Savings	26,628	30,949	85,220
TRB Savings (2012 \$)	\$6,803,767	\$6,514,558	\$23,653,870
Winter Coincident Peak kW Savings	356	329	1,042
Summer Coincident Peak kW Savings	168	190	568
Annualized MWh Savings/Participant	1.207	1.208	1.295
Weighted Lifetime	16.3	17.6	17.1

4.8 Electric Residential New Construction - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	143	71	63	1,060	12	11	0	0	\$22,335	\$8,595
Cooking and Laundry	609	74	63	1,022	19	11	408	3,164	\$4,822	\$127,883
Design Assistance	4	0	0	0	0	0	0	0	\$400	-\$5
Hot Water Efficiency	555	2	2	48	0	0	676	899	\$18,220	-\$12,057
Lighting	1,444	804	807	11,048	166	64	-42	0	\$222,312	\$215,244
Motors	16	24	22	365	2	2	0	0	\$2,931	\$3,733
Other Efficiency	7	0	0	0	0	0	0	0	\$102,000	-\$102,000
Other Fuel Switch	150	36	45	1,069	8	6	-126	0	\$803	\$10,667
Refrigeration	688	92	84	1,246	8	11	0	0	\$6,488	\$56,099
Space Heat Efficiency	604	548	486	13,436	102	74	10,879	0	\$231,521	\$1,174,882
Ventilation	607	110	97	1,655	11	10	264	0	\$10,934	\$23,888
Totals		1,761	1,668	30,949	329	190	12,060	4,063	\$622,766	\$1,506,929

4.9 Electric Residential New Construction Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	\$2,000,330
Fossil Fuel Savings (Costs)	\$243,545	\$4,090,891
Water Savings (Costs)	\$30,341	\$423,337
Total	\$273,886	\$6,514,557

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	1,668	1,563	1,761
Winter on peak	606	569	646
Winter off peak	659	622	697
Summer on peak	196	182	182
Summer off peak	207	190	210
<u>Coincident Demand Savings (kW)</u>			
Winter	328	299	329
Shoulder	0	0	0
Summer	182	172	190

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	3,914	4,063	52,058
Annualized fuel savings (increase) MMBtu Total	11,980	12,060	283,832
LP	4,583	4,627	109,174
NG	6,314	6,352	148,596
Oil/Kerosene	429	429	10,203
Wood	654	652	15,830
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	\$43,918	\$39,105	\$569,195

Net Societal Benefits	\$6,277,971
------------------------------	--------------------

4.10 Electric Efficient Products Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	29,077	36,990	98,583
<u>Operating Costs</u>			
Administration	\$273,224	\$690,109	\$1,241,862
Operations and Implementation	\$1,044,452	\$1,357,199	\$3,278,644
Strategy and Planning	\$12,446	\$14,706	\$35,268
Subtotal Operating Costs	<u>\$1,330,121</u>	<u>\$2,062,014</u>	<u>\$4,555,774</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$262,053	\$127,855	\$636,480
Services to Trade Allies	\$75,971	\$323,067	\$472,834
Subtotal Technical Assistance Costs	<u>\$338,024</u>	<u>\$450,922</u>	<u>\$1,109,313</u>
<u>Support Services</u>			
Transportation	\$27	\$182	\$209
Targeted Implementation	\$931	\$50	\$981
Consulting	\$56,874	\$63,705	\$165,004
Marketing	\$768,622	\$725,434	\$1,883,808
EM&V	\$8,894	\$11,241	\$34,199
Policy	\$5,829	\$8,745	\$32,538
Information Technology	\$248	\$2,769	\$3,073
Customer Support	\$38,705	\$48,299	\$123,015
Business Development	\$4,695	\$2,622	\$7,503
Subtotal Support Services Costs	<u>\$884,826</u>	<u>\$863,045</u>	<u>\$2,250,331</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$4,236,136	\$6,025,202	\$14,823,024
Incentives to Trade Allies	\$0	\$12,033	\$12,107
Subtotal Incentive Costs	<u>\$4,236,136</u>	<u>\$6,037,235</u>	<u>\$14,835,131</u>
Total Efficiency Vermont Costs	<u>\$6,789,107</u>	<u>\$9,413,216</u>	<u>\$22,750,549</u>
Total Participant Costs	\$3,695,000	\$5,002,146	\$5,214,897
Total Third Party Costs	<u>\$755,115</u>	<u>\$804,677</u>	<u>\$2,415,429</u>
Total Resource Acquisition Costs	<u>\$11,239,221</u>	<u>\$15,220,039</u>	<u>\$30,380,875</u>
<u>Annualized MWh Savings</u>			
Annualized MWh Savings	31,380	30,551	98,734
Lifetime MWh Savings	265,732	315,383	845,088
TRB Savings (2012 \$)	\$20,674,216	\$20,921,796	\$68,198,711
Winter Coincident Peak kW Savings	7,694	6,790	25,601
Summer Coincident Peak kW Savings	4,167	3,688	13,289
Annualized MWh Savings/Participant	1.079	0.826	1.002
Weighted Lifetime	8.5	10.3	8.6

4.11 Electric Efficient Products - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	802	118	137	1,421	0	25	0	0	\$20,250	\$28,350
Cooking and Laundry	2,859	717	590	10,014	95	72	2,566	24,296	\$175,845	\$1,048,498
Electronics	2,961	2,720	2,996	13,196	276	335	0	0	\$233,870	-\$252,216
Hot Water Efficiency	315	746	640	9,733	114	59	-1,461	39	\$260,566	\$264,750
Lighting	28,096	23,599	26,746	244,381	6,003	2,959	-4,810	0	\$4,670,591	\$3,450,088
Motors	305	513	472	8,831	83	88	0	0	\$236,973	\$64,567
Other Efficiency	558	0	0	0	0	0	0	0	\$0	-\$3,000
Refrigeration	2,228	1,290	1,496	10,866	118	149	0	0	\$137,715	\$191,855
Space Heat Efficiency	158	847	791	16,941	101	1	0	0	\$289,393	\$209,253
Totals		30,551	33,870	315,383	6,790	3,688	-3,705	24,335	\$6,025,202	\$5,002,146

4.12 Electric Efficient Products Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	\$18,457,625
Fossil Fuel Savings (Costs)	(\$104,321)	(\$265,150)
Water Savings (Costs)	\$181,782	\$2,729,248
Total	\$77,462	\$20,921,724

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	33,870	27,105	30,551
Winter on peak	13,391	10,737	12,186
Winter off peak	10,476	8,409	9,433
Summer on peak	5,450	4,355	4,355
Summer off peak	4,553	3,605	3,990
<u>Coincident Demand Savings (kW)</u>			
Winter	8,553	6,173	6,790
Shoulder	0	0	0
Summer	4,472	3,337	3,688

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	22,582	24,335	340,093
Annualized fuel savings (increase) MMBtu Total	(5,199)	(3,705)	(12,455)
LP	287	341	4,618
NG	692	717	10,325
Oil/Kerosene	(6,212)	(3,814)	(23,992)
Wood	(313)	(328)	(4,208)
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	\$1,651,229	\$1,447,763	\$16,375,855

Net Societal Benefits	\$32,175,219
------------------------------	---------------------

4.13 Electric Existing Homes Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	4,754	13,197	22,128
<u>Operating Costs</u>			
Administration	\$244,826	\$393,099	\$886,970
Operations and Implementation	\$1,580,181	\$971,377	\$4,045,846
Strategy and Planning	\$101,706	\$51,025	\$309,247
Subtotal Operating Costs	<u>\$1,926,714</u>	<u>\$1,415,502</u>	<u>\$5,242,063</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$250,633	\$164,594	\$910,050
Services to Trade Allies	\$19,493	\$55,250	\$90,752
Subtotal Technical Assistance Costs	<u>\$270,125</u>	<u>\$219,844</u>	<u>\$1,000,802</u>
<u>Support Services</u>			
Transportation	\$264	\$2,275	\$2,539
Targeted Implementation	\$969	\$39	\$1,008
Consulting	\$48,700	\$97,458	\$163,901
Marketing	\$679,327	\$269,011	\$1,218,396
EM&V	\$15,088	\$33,085	\$64,715
Policy	\$8,450	\$5,794	\$33,916
Information Technology	\$258	\$62,923	\$63,240
Customer Support	\$50,432	\$52,818	\$140,735
Business Development	\$4,886	\$2,056	\$7,136
Subtotal Support Services Costs	<u>\$808,373</u>	<u>\$525,460</u>	<u>\$1,695,586</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$867,009	\$1,583,135	\$4,542,569
Incentives to Trade Allies	\$8,450	\$1,400	\$15,805
Subtotal Incentive Costs	<u>\$875,459</u>	<u>\$1,584,535</u>	<u>\$4,558,375</u>
Total Efficiency Vermont Costs	<u>\$3,880,671</u>	<u>\$3,745,340</u>	<u>\$12,496,826</u>
Total Participant Costs	\$217,346	\$315,225	\$1,195,024
Total Third Party Costs	<u>\$68,103</u>	<u>\$87,827</u>	<u>\$324,238</u>
Total Resource Acquisition Costs	<u>\$4,166,121</u>	<u>\$4,148,392</u>	<u>\$14,016,088</u>
<u>Annualized MWh Savings</u>			
Annualized MWh Savings	1,708	3,167	8,984
Lifetime MWh Savings	22,373	37,595	118,268
TRB Savings (2012 \$)	\$2,185,649	\$2,535,791	\$9,275,350
Winter Coincident Peak kW Savings	344	654	1,762
Summer Coincident Peak kW Savings	173	306	819
Annualized MWh Savings/Participant	0.359	0.240	0.406
Weighted Lifetime	13.1	11.9	13.2

4.14 Electric Existing Homes - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	25	7	7	111	0	3	0	0	\$2,951	\$6,848
Cooking and Laundry	298	91	80	1,269	11	8	17	1,451	\$91,835	\$22,850
Design Assistance	16	0	0	0	0	0	0	0	\$10,585	\$1,415
Electronics	12,110	594	581	2,376	60	75	0	0	\$216,664	\$455
Hot Water Efficiency	12,118	194	183	1,811	22	13	1,349	5,208	\$92,732	\$2,822
Hot Water Fuel Switch	112	253	403	7,598	39	20	-1,071	0	\$38,345	\$89,330
Lighting	12,814	1,110	1,048	11,544	354	106	-13	0	\$460,407	\$27,834
Motors	28	61	60	881	8	1	0	0	\$4,000	\$4,963
Other Efficiency	1,255	0	0	0	0	0	0	0	\$300	-\$300
Other Fuel Switch	96	45	40	1,339	10	7	-146	0	\$14,766	\$15
Other Indirect Activity	16	0	0	0	0	0	0	0	\$20,000	-\$20,000
Refrigeration	813	583	518	7,024	53	67	0	0	\$569,203	\$74,157
Space Heat Efficiency	91	159	155	2,548	83	0	190	0	\$41,725	\$83,369
Space Heat Fuel Switch	2	16	16	484	8	0	-54	0	\$0	\$12,836
Ventilation	260	35	31	576	3	4	0	0	\$19,622	\$7,161
Water Conservation	4	19	17	35	2	1	0	0	\$0	\$1,470
Totals		3,167	3,140	37,595	654	306	274	6,659	\$1,583,135	\$315,225

4.15 Electric Existing Homes Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	\$2,089,248
Fossil Fuel Savings (Costs)	(\$7,183)	(\$85,324)
Water Savings (Costs)	\$47,263	\$531,979
Total	\$40,081	\$2,535,903

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	3,140	2,813	3,167
Winter on peak	1,145	1,018	1,156
Winter off peak	1,099	987	1,107
Summer on peak	442	397	397
Summer off peak	454	413	457
<u>Coincident Demand Savings (kW)</u>			
Winter	659	595	654
Shoulder	0	0	0
Summer	304	277	306

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	6,790	6,659	63,774
Annualized fuel savings (increase) MMBtu Total	(469)	274	(22,375)
LP	22	38	(1,850)
NG	(1,971)	(1,072)	(34,019)
Oil/Kerosene	169	168	2,569
Wood	85	77	1,148
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	\$54,141	\$51,865	\$555,073

Net Societal Benefits	\$1,882,693
------------------------------	--------------------

4.16 Thermal Energy and Process Fuels Business New Construction Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	28	15	82
<u>Operating Costs</u>			
Administration	\$1,512	\$2,458	\$6,659
Operations and Implementation	\$1,106	\$412	\$2,464
Strategy and Planning	<u>\$270</u>	<u>\$819</u>	<u>\$1,724</u>
Subtotal Operating Costs	<u>\$2,888</u>	<u>\$3,688</u>	<u>\$10,847</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$2,343	\$486	\$6,523
Services to Trade Allies	<u>\$2</u>	<u>\$0</u>	<u>\$3</u>
Subtotal Technical Assistance Costs	<u>\$2,345</u>	<u>\$486</u>	<u>\$6,526</u>
<u>Support Services</u>			
Transportation	\$0	\$1	\$1
Targeted Implementation	\$3	\$0	\$3
Consulting	\$54	\$72	\$339
Marketing	\$261	\$256	\$965
EM&V	\$100	\$25	\$229
Policy	\$10	\$15	\$134
Information Technology	\$1	\$11	\$12
Customer Support	\$134	\$57	\$474
Business Development	<u>\$16</u>	<u>\$10</u>	<u>\$27</u>
Subtotal Support Services Costs	<u>\$578</u>	<u>\$447</u>	<u>\$2,184</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$60,375	\$7,937	\$187,245
Incentives to Trade Allies	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Subtotal Incentive Costs	<u>\$60,375</u>	<u>\$7,937</u>	<u>\$187,245</u>
Total Efficiency Vermont Costs	<u>\$66,186</u>	<u>\$12,559</u>	<u>\$206,802</u>
Total Participant Costs	\$562,913	\$47,593	\$1,676,755
Total Third Party Costs	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Total Resource Acquisition Costs	<u>\$629,099</u>	<u>\$60,151</u>	<u>\$1,883,558</u>
Annualized MMBtu Savings	7,152	1,561	27,548
Lifetime MMBtu Savings	149,072	28,463	566,271
TRB Savings (2012 \$)	\$3,965,032	\$658,927	\$15,046,451
Annualized MMBtu Savings/Participant	255.444	104.096	335.952
Weighted Lifetime	20.6	18.2	20.6

4.17 Thermal Energy and Process Fuels Business New Construction - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Cooking and Laundry	2	0	0	0	0	0	243	0	\$750	\$6,984
Space Heat Efficiency	13	0	0	0	0	0	676	0	\$6,437	\$37,043
Space Heat Fuel Switch	1	0	0	3	0	0	531	0	\$0	-\$3,090
Ventilation	1	0	0	-3	3	3	112	0	\$750	\$6,656
Totals		0	0	0	3	3	1,561	0	\$7,937	\$47,593

4.18 Thermal Energy and Process Fuels Business New Construction Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	\$8,751
Fossil Fuel Savings (Costs)	\$29,619	\$650,176
Water Savings (Costs)	\$0	\$0
Total	\$29,619	\$658,927

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	0	(0)	(0)
Winter on peak	0	0	0
Winter off peak	0	0	0
Summer on peak	(0)	(0)	(0)
Summer off peak	(0)	(0)	(0)
<u>Coincident Demand Savings (kW)</u>			
Winter	3	3	3
Shoulder	0	0	0
Summer	3	3	3

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	0	0	0
Annualized fuel savings (increase) MMBtu Total	1,655	1,561	28,463
LP	1,532	1,438	26,501
NG	0	0	0
Oil/Kerosene	123	123	1,962
Wood	0	0	0
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	\$316	\$269	\$4,032

Net Societal Benefits	\$811,774
------------------------------	------------------

4.19 Thermal Energy and Process Fuels Business Existing Facilities Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	176	234	534
<u>Operating Costs</u>			
Administration	\$10,821	\$49,328	\$70,198
Operations and Implementation	\$15,171	\$4,835	\$31,082
Strategy and Planning	\$14,996	\$7,755	\$31,358
Subtotal Operating Costs	<u>\$40,988</u>	<u>\$61,918</u>	<u>\$132,637</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$3,447	\$209,197	\$219,242
Services to Trade Allies	\$8	\$0	\$17
Subtotal Technical Assistance Costs	<u>\$3,456</u>	<u>\$209,197</u>	<u>\$219,258</u>
<u>Support Services</u>			
Transportation	\$0	\$235	\$235
Targeted Implementation	\$18	\$64	\$83
Consulting	\$463	\$23,947	\$25,557
Marketing	\$2,514	\$84,497	\$89,442
EM&V	\$532	\$11,561	\$13,028
Policy	\$58	\$4,885	\$7,942
Information Technology	\$5	\$3,576	\$3,582
Customer Support	\$725	\$39,395	\$41,650
Business Development	\$91	\$3,386	\$3,479
Subtotal Support Services Costs	<u>\$4,405</u>	<u>\$171,546</u>	<u>\$184,997</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$427,146	\$323,695	\$1,123,738
Incentives to Trade Allies	\$5,664	\$5,940	\$18,004
Subtotal Incentive Costs	<u>\$432,810</u>	<u>\$329,635</u>	<u>\$1,141,742</u>
<u>Total Efficiency Vermont Costs</u>	<u>\$481,658</u>	<u>\$772,295</u>	<u>\$1,678,635</u>
Total Participant Costs	\$2,082,286	\$778,561	\$3,235,553
Total Third Party Costs	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Total Resource Acquisition Costs	<u>\$2,563,944</u>	<u>\$1,550,856</u>	<u>\$4,914,188</u>
Annualized MMBtu Savings	25,975	10,106	69,123
Lifetime MMBtu Savings	397,872	144,174	1,069,938
TRB Savings (2012 \$)	\$6,954,609	\$2,986,411	\$20,149,236
Annualized MMBtu Savings/Participant	147.587	43.186	129.444
Weighted Lifetime	15.3	14.3	15.5

4.20 Thermal Energy and Process Fuels Business Existing Facilities - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Cooking and Laundry	15	0	0	3	0	0	233	0	\$12,500	\$24,519
Hot Water Efficiency	16	0	0	0	0	0	896	0	\$33,750	\$23,077
Industrial Process Eff.	1	16	17	234	5	0	5,531	0	\$93,750	\$226,700
Motors	1	59	56	591	9	10	342	0	\$2,200	\$4,712
Other Efficiency	109	0	0	0	0	0	0	0	\$1,000	-\$1,000
Other Indirect Activity	2	0	0	0	0	0	0	0	\$94,495	\$270
Space Heat Efficiency	134	42	42	743	17	0	3,424	0	\$81,000	\$338,983
Space Heat Fuel Switch	2	-1	-1	-12	0	0	-320	0	\$5,000	\$161,300
Totals		116	114	1,559	31	10	10,106	0	\$323,695	\$778,561

4.21 Thermal Energy and Process Fuels Business Existing Facilities Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	\$107,345
Fossil Fuel Savings (Costs)	\$246,793	\$2,879,066
Water Savings (Costs)	\$0	\$0
Total	\$246,793	\$2,986,411

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	114	103	116
Winter on peak	51	46	53
Winter off peak	42	37	42
Summer on peak	13	12	12
Summer off peak	8	7	8
<u>Coincident Demand Savings (kW)</u>			
Winter	32	28	31
Shoulder	0	0	0
Summer	10	9	10

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	0	0	0
Annualized fuel savings (increase) MMBtu Total	11,757	10,106	144,174
LP	2,437	2,342	38,894
NG	0	0	0
Oil/Kerosene	10,994	9,086	125,109
Wood	(1,673)	(1,322)	(19,828)
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	\$751	\$593	\$8,894

Net Societal Benefits	\$3,933,706
------------------------------	--------------------

4.22 Thermal Energy and Process Fuels Residential New Construction Summary

	<u>Prior Year</u>	<u>Current Year</u> 2014	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	34	16	89
<u>Operating Costs</u>			
Administration	\$74	\$271	\$451
Operations and Implementation	\$0	\$6	\$6
<u>Strategy and Planning</u>	<u>\$160</u>	<u>\$13</u>	<u>\$173</u>
Subtotal Operating Costs	<u>\$234</u>	<u>\$291</u>	<u>\$630</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$0	\$5	\$5
<u>Services to Trade Allies</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Subtotal Technical Assistance Costs	<u>\$0</u>	<u>\$5</u>	<u>\$5</u>
<u>Support Services</u>			
Transportation	\$0	\$0	\$0
Targeted Implementation	\$0	\$0	\$0
Consulting	\$0	\$1	\$1
Marketing	\$0	\$2	\$2
EM&V	\$0	\$0	\$0
Policy	\$0	\$0	\$0
Information Technology	\$0	\$0	\$0
Customer Support	\$0	\$1	\$6
<u>Business Development</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Subtotal Support Services Costs	<u>\$0</u>	<u>\$4</u>	<u>\$10</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$4,335	\$2,107	\$12,416
<u>Incentives to Trade Allies</u>	<u>\$0</u>	<u>\$0</u>	<u>\$200</u>
Subtotal Incentive Costs	<u>\$4,335</u>	<u>\$2,107</u>	<u>\$12,616</u>
<u>Total Efficiency Vermont Costs</u>	<u>\$4,569</u>	<u>\$2,406</u>	<u>\$13,261</u>
Total Participant Costs	\$85,292	\$43,827	\$48,677
<u>Total Third Party Costs</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
<u>Total Resource Acquisition Costs</u>	<u>\$89,861</u>	<u>\$46,234</u>	<u>\$61,938</u>
<u>Annualized MMBtu Savings</u>			
Annualized MMBtu Savings	391	(1)	642
Lifetime MMBtu Savings	5,872	(15)	10,660
TRB Savings (2012 \$)	\$337,982	\$151,287	\$549,642
Annualized MMBtu Savings/Participant	11.513	(0.063)	7.216
Weighted Lifetime	15.0	15.0	16.6

4.23 Thermal Energy and Process Fuels Residential New Construction - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Space Heat Fuel Switch	16	-1	-1	-10	0	0	-1	0	\$2,107	\$43,827
Totals		-1	-1	-10	0	0	-1	0	\$2,107	\$43,827

4.24 Thermal Energy and Process Fuels Residential New Construction Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	(\$246)
Fossil Fuel Savings (Costs)	\$22,635	\$151,533
Water Savings (Costs)	\$0	\$0
Total	\$22,635	\$151,287

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	(1)	(1)	(1)
Winter on peak	(0)	(0)	(0)
Winter off peak	(0)	(0)	(0)
Summer on peak	(0)	(0)	(0)
Summer off peak	(0)	(0)	(0)
<u>Coincident Demand Savings (kW)</u>			
Winter	(0)	(0)	(0)
Shoulder	0	0	0
Summer	(0)	(0)	(0)

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	0	0	0
Annualized fuel savings (increase) MMBtu Total	(1)	(1)	(15)
LP	296	296	4,434
NG	0	0	0
Oil/Kerosene	852	852	12,779
Wood	(1,149)	(1,149)	(17,228)
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	\$642	\$642	\$9,626

Net Societal Benefits	\$268,278
------------------------------	------------------

4.25 Thermal Energy and Process Fuels Efficient Products Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	0	338	338
<u>Operating Costs</u>			
Administration	\$0	\$41,594	\$41,594
Operations and Implementation	\$0	\$2,444	\$2,444
<u>Strategy and Planning</u>	<u>\$0</u>	<u>\$542</u>	<u>\$542</u>
Subtotal Operating Costs	<u>\$0</u>	<u>\$44,581</u>	<u>\$44,581</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$0	\$909	\$909
<u>Services to Trade Allies</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Subtotal Technical Assistance Costs	<u>\$0</u>	<u>\$909</u>	<u>\$909</u>
<u>Support Services</u>			
Transportation	\$0	\$1	\$1
Targeted Implementation	\$0	\$0	\$0
Consulting	\$0	\$135	\$135
Marketing	\$0	\$483	\$483
EM&V	\$0	\$47	\$47
Policy	\$0	\$28	\$28
Information Technology	\$0	\$20	\$20
Customer Support	\$0	\$1,298	\$1,298
<u>Business Development</u>	<u>\$0</u>	<u>\$19</u>	<u>\$19</u>
Subtotal Support Services Costs	<u>\$0</u>	<u>\$2,033</u>	<u>\$2,033</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$0	\$347,322	\$347,322
<u>Incentives to Trade Allies</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Subtotal Incentive Costs	<u>\$0</u>	<u>\$347,322</u>	<u>\$347,322</u>
<u>Total Efficiency Vermont Costs</u>	<u>\$0</u>	<u>\$394,845</u>	<u>\$394,845</u>
Total Participant Costs	\$0	(\$248,187)	(\$248,187)
<u>Total Third Party Costs</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Total Resource Acquisition Costs	\$0	\$146,658	\$146,658
<u>Annualized MMBtu Savings</u>			
Annualized MMBtu Savings	0	6,439	6,439
Lifetime MMBtu Savings	0	83,927	83,927
TRB Savings (2012 \$)	0	\$1,092,158	\$1,092,158
Annualized MMBtu Savings/Participant	0	19.050	19.050
Weighted Lifetime	0	13.0	13.0

4.26 Thermal Energy and Process Fuels Efficient Products - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Hot Water Efficiency	338	-992	-854	-12,892	-153	-78	6,439	12	\$347,322	-\$248,187
Totals		-992	-854	-12,892	-153	-78	6,439	12	\$347,322	-\$248,187

4.27 Thermal Energy and Process Fuels Efficient Products Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	(\$792,346)
Fossil Fuel Savings (Costs)	\$166,547	\$1,883,567
Water Savings (Costs)	\$90	\$937
Total	\$166,637	\$1,092,158

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	(854)	(879)	(992)
Winter on peak	(343)	(354)	(401)
Winter off peak	(273)	(281)	(316)
Summer on peak	(129)	(133)	(133)
Summer off peak	(108)	(112)	(124)
<u>Coincident Demand Savings (kW)</u>			
Winter	(135)	(139)	(153)
Shoulder	0	0	0
Summer	(68)	(70)	(78)

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	12	12	108
Annualized fuel savings (increase) MMBtu Total	6,250	6,439	83,927
LP	2,062	2,158	28,049
NG	0	0	0
Oil/Kerosene	4,604	4,711	61,478
Wood	(417)	(424)	(5,581)
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	\$0	\$0	\$0

Net Societal Benefits	\$1,275,690
------------------------------	--------------------

4.28 Thermal Energy and Process Fuels Existing Homes Summary

	<u>Prior Year</u>	<u>Current Year 2014</u>	<u>Cumulative starting 1/1/12</u>
# participants with installations	2,593	2,748	7,277
<u>Operating Costs</u>			
Administration	\$138,393	\$332,895	\$616,328
Operations and Implementation	\$1,343,216	\$1,123,283	\$3,024,706
<u>Strategy and Planning</u>	<u>\$63,997</u>	<u>\$33,487</u>	<u>\$119,766</u>
Subtotal Operating Costs	<u>\$1,545,605</u>	<u>\$1,489,664</u>	<u>\$3,760,801</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$160,281	\$233,127	\$416,429
Services to Trade Allies	\$27	\$496	\$523
Subtotal Technical Assistance Costs	<u>\$160,308</u>	<u>\$233,623</u>	<u>\$416,952</u>
<u>Support Services</u>			
Transportation	\$43	\$433	\$475
Targeted Implementation	\$565	\$12	\$577
Consulting	\$46,344	\$135,093	\$187,184
Marketing	\$422,554	\$272,822	\$763,022
EM&V	\$6,662	\$10,153	\$24,682
Policy	\$3,536	\$5,968	\$11,650
Information Technology	\$150	\$24,443	\$24,630
Customer Support	\$32,711	\$47,419	\$92,568
<u>Business Development</u>	<u>\$2,821</u>	<u>\$639</u>	<u>\$3,558</u>
Subtotal Support Services Costs	<u>\$515,386</u>	<u>\$496,982</u>	<u>\$1,108,348</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$1,781,055	\$1,896,323	\$5,920,077
Incentives to Trade Allies	\$150,719	\$127,522	\$376,267
Subtotal Incentive Costs	<u>\$1,931,775</u>	<u>\$2,023,845</u>	<u>\$6,296,344</u>
<u>Total Efficiency Vermont Costs</u>	<u>\$4,153,073</u>	<u>\$4,244,113</u>	<u>\$11,582,444</u>
Total Participant Costs	\$6,135,668	\$6,055,926	\$13,037,655
<u>Total Third Party Costs</u>	<u>\$322,812</u>	<u>\$284,124</u>	<u>\$1,332,760</u>
Total Resource Acquisition Costs	<u>\$10,611,553</u>	<u>\$10,584,162</u>	<u>\$25,952,858</u>
<u>Annualized MMBtu Savings</u>			
Annualized MMBtu Savings	20,380	18,429	65,042
Lifetime MMBtu Savings	376,444	342,800	1,202,852
TRB Savings (2012 \$)	\$7,966,336	\$6,906,459	\$25,011,750
Annualized MMBtu Savings/Participant	7.859	6.706	8.938
Weighted Lifetime	18.5	18.6	18.5

4.29 Thermal Energy and Process Fuels Existing Homes - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	11	-36	-35	-539	-19	0	274	0	\$0	\$67,312
Cooking and Laundry	12	0	0	0	0	0	0	0	\$0	\$1,370
Hot Water Efficiency	143	-4	-4	-49	0	0	433	80	\$8,123	\$152,012
Hot Water Fuel Switch	3	1	1	40	0	0	-17	0	\$0	\$2,800
Motors	14	0	0	4	0	0	15	0	\$0	\$2,170
Other Efficiency	1,050	0	0	0	0	0	0	0	\$0	\$0
Other Indirect Activity	164	0	0	0	0	0	0	0	\$254,839	-\$239,475
Space Heat Efficiency	2,625	167	166	3,079	90	0	16,907	2	\$1,596,361	\$5,302,471
Space Heat Fuel Switch	69	-26	-29	-665	-11	0	650	0	\$37,001	\$641,228
Ventilation	137	0	0	0	0	0	167	0	\$0	\$126,036
Totals		102	100	1,870	59	0	18,429	81	\$1,896,323	\$6,055,926

4.30 Thermal Energy and Process Fuels Existing Homes Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	\$137,592
Fossil Fuel Savings (Costs)	\$538,018	\$6,762,514
Water Savings (Costs)	\$607	\$6,354
Total	\$538,625	\$6,906,459

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	100	91	102
Winter on peak	45	41	47
Winter off peak	53	49	61
Summer on peak	0	0	0
Summer off peak	1	1	1
<u>Coincident Demand Savings (kW)</u>			
Winter	59	54	59
Shoulder	0	0	0
Summer	(0)	(0)	(0)

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	90	81	748
Annualized fuel savings (increase) MMBtu Total	20,102	18,429	342,800
LP	4,239	4,004	69,718
NG	0	0	0
Oil/Kerosene	17,384	15,292	280,043
Wood	(1,515)	(866)	(6,955)
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	(\$948)	(\$758)	(\$30,880)

Net Societal Benefits	\$2,899,116
------------------------------	--------------------

5. SPECIAL PROGRAMS

5.1 CUSTOMER CREDIT PROGRAM

5.2 GEOGRAPHIC TARGETING (ELECTRIC)

The tables presented in **Section 5.2** contain results from Resource Acquisition (electric only) activity in the Geographic Targeting areas described in **Section 2.3**.

5.1 CUSTOMER CREDIT PROGRAM

5.1.1 NARRATIVE

The Customer Credit program (CCP) provides an alternative path for qualified large businesses showing the capability and resources to identify, analyze, and undertake efficiency projects, and to self-implement energy efficiency measures. Approved project costs are reimbursed up to a maximum of 90% of the company's electric Energy Efficiency Charge payments with time-bound limitations.

CCP customers can receive reimbursement for any retrofit or market-driven project that saves electrical energy and passes the Vermont societal cost-effectiveness test. Once a qualifying customer elects to participate in the CCP, that customer is no longer eligible to participate in other Efficiency Vermont programs.

All CCP projects must be initiated by the customer. In addition, the customer or its contractors must complete all technical analysis. Market-driven projects are eligible for incentives equal to 100% of the incremental measure cost. For retrofit projects, customers can receive incentives that reduce the customer payback time to 12 months. If qualifying incentives exceed the net present value of the savings when screened, the incentive is capped at the net present value amount.

ELIGIBLE MARKET

To be eligible for CCP, customers must:

- Never have accepted cash incentives from any Vermont utility Demand Side Management program
- Have ISO 14001 certification

5.1.2 Customer Credit Summary

	<u>Prior Year</u>	<u>Current Year</u> 2014	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	1	1	1
<u>Operating Costs</u>			
Administration	\$37,432	\$94,058	\$139,197
Operations and Implementation	\$6,014	\$35,822	\$46,517
<u>Strategy and Planning</u>	<u>\$225</u>	<u>\$1,303</u>	<u>\$1,731</u>
Subtotal Operating Costs	<u>\$43,670</u>	<u>\$131,183</u>	<u>\$187,445</u>
<u>Technical Assistance Costs</u>			
Services to Participants	\$14,115	\$26,915	\$63,136
Services to Trade Allies	\$1,805	\$9,778	\$17,324
Subtotal Technical Assistance Costs	<u>\$15,920</u>	<u>\$36,693</u>	<u>\$80,460</u>
<u>Support Services</u>			
Transportation	\$1	\$36	\$36
Targeted Implementation	\$24	\$10	\$33
Consulting	\$336	\$3,641	\$4,131
Marketing	\$6,116	\$12,847	\$22,334
EM&V	\$1,024	\$1,310	\$3,416
Policy	\$125	\$743	\$6,318
Information Technology	\$6	\$544	\$551
Customer Support	\$359	\$2,877	\$3,661
<u>Business Development</u>	<u>\$119</u>	<u>\$515</u>	<u>\$639</u>
Subtotal Support Services Costs	<u>\$8,109</u>	<u>\$22,522</u>	<u>\$41,121</u>
<u>Incentive Costs</u>			
Incentives to Participants	\$1,852,755	\$658,468	\$2,655,890
Incentives to Trade Allies	\$0	\$12	\$12
Subtotal Incentive Costs	<u>\$1,852,755</u>	<u>\$658,480</u>	<u>\$2,655,902</u>
<u>Total Efficiency Vermont Costs</u>	<u>\$1,920,454</u>	<u>\$848,878</u>	<u>\$2,964,928</u>
Total Participant Costs	\$1,050,714	(\$642,601)	(\$560,638)
Total Third Party Costs	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Total Resource Acquisition Costs	<u>\$2,971,168</u>	<u>\$206,277</u>	<u>\$2,404,290</u>
<u>Annualized MWh Savings</u>			
Annualized MWh Savings	4,097	13	5,156
Lifetime MWh Savings	58,790	253	74,737
TRB Savings (2012 \$)	\$4,198,955	\$28,349	\$5,365,451
Winter Coincident Peak kW Savings	663	5	785
Summer Coincident Peak kW Savings	661	5	783
Annualized MWh Savings/Participant	4097.362	12.719	5156.350
Weighted Lifetime	14.3	19.9	14.5

5.1.3 Customer Credit - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Lighting	1	0	0	5	0	0	0	0	\$644,218	-\$643,622
Motors	1	12	11	247	5	5	0	0	\$14,250	\$1,021
Totals		13	11	253	5	5	0	0	\$658,468	-\$642,601

5.1.4 Customer Credit Total Resource Benefits

Avoided Cost Benefits	2014	Lifetime (Present Value)
Avoided Cost of Electricity	nap	\$28,349
Fossil Fuel Savings (Costs)	\$0	\$0
Water Savings (Costs)	\$0	\$0
Total	\$0	\$28,349

Electric Energy & Demand Benefits	Savings at Meter		Savings at Generation
	Gross	Net	Net
<u>Annualized Energy Savings (MWh): Total</u>	11	11	13
Winter on peak	4	4	4
Winter off peak	4	4	4
Summer on peak	2	2	2
Summer off peak	2	2	2
<u>Coincident Demand Savings (kW)</u>			
Winter	5	5	5
Shoulder	0	0	0
Summer	5	5	5

Thermal & Other Benefits	Gross	Net	Lifetime Net
Annualized Water Savings (ccf)	0	0	0
Annualized fuel savings (increase) MMBtu Total	0	0	0
LP	0	0	0
NG	0	0	0
Oil/Kerosene	0	0	0
Wood	0	0	0
Solar	0	0	0
Other	0	0	0
Annualized savings (increase) in O&M(\$)	\$16	\$16	\$239

5.2 GEOGRAPHIC TARGETING (ELECTRIC)

Based on recommendations from the Vermont System Planning Committee (VSPC) and direction from the Vermont Public Service Board (Board), Efficiency Vermont implements energy efficiency efforts within specific geographic regions of the state to help relieve the electric load on constrained transmission and distribution systems. These efforts benefit all electric ratepayers across the state by reducing expensive power supply purchases, and potentially deferring or avoiding the need for costly system upgrades.

In 2012-2013, the Board established two geographically targeted areas. The first was a part of Saint Albans and the second was an area in Essex Junction and Colchester. In 2014, the Saint Albans area was the sole geographically targeted part of Vermont, owing to the fact that the VSPC recommended, and the Board subsequently ordered, that the Essex Junction/Colchester area have its designation discontinued for 2014.

5.2.1 Electric Geographic Targeting Summary

	Geographic Area		
	Susie Wilson	Saint Albans	Combined
Efficiency Vermont Costs			
Incentives (Participant and Trade Ally)	\$0	\$1,579,524	\$1,579,524
Allocated Non-Incentives	\$0	\$1,508,636	\$1,508,636
Year to Date Costs	\$0	\$3,088,159	\$3,088,159
Costs Starting 1/1/12	\$3,408,657	\$6,042,658	\$9,451,316
Other Costs and Commitments			
Participant Costs Year to Date	\$0	\$1,185,214	\$1,185,214
Third Party Costs Year to Date	\$0	\$43,972	\$43,972
MWh Savings Results			
Annualized MWh Year to Date	-	6,653	6,653
Annualized MWh Cumulative Starting 1/1/12	12,150	15,895	28,045
Lifetime MWh Savings (2014)	-	79,187	79,187
Annualized MWh Savings/Participant	NA	2.879	2.879
Weighted Lifetime	NA	11.9	11.9
Summer Peak Coincident kW Savings Results			
Summer Coincident Peak kW Year to Date	-	816	816
Summer Coincident Peak kW Cumulative Starting 1/1/12	1,626	2,086	3,712
Summer Coincident Peak kW Goal	1,570	1,800	
% of Summer Coincident Peak kW Goal	104%	116%	
TRB Savings Results			
TRB Year to Date	\$0	\$5,792,306	\$5,792,306
TRB Cumulative Starting 1/1/12	\$13,468,472	\$14,245,313	\$27,713,785
Participation			
Participants with installations Year to Date	-	2,311	2,311
Participants with installations Cumulative Starting 1/1/12	3,406	3,643	7,049

5.2.2 Electric Geographic Targeting Saint Albans - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	39	534	507	9,041	0	107	8,605	0	\$252,887	\$38,726
Cooking and Laundry	111	38	32	525	5	4	83	976	\$20,294	\$40,067
Design Assistance	62	0	0	0	0	0	0	0	\$72,497	\$12,318
Electronics	1,181	157	146	556	20	9	0	0	\$25,451	\$16,897
Hot Water Efficiency	1,140	43	39	471	11	10	82	505	\$16,976	\$3,666
Hot Water Fuel Switch	14	42	53	1,245	5	3	-162	0	\$15,245	\$17,359
Industrial Process Eff.	5	817	818	10,292	119	60	0	0	\$28,060	\$245,246
Lighting	2,137	2,687	2,643	32,613	514	334	-727	0	\$624,495	\$483,561
Motors	15	1,423	1,400	16,197	197	195	0	0	\$319,805	\$259,821
Other Efficiency	231	0	0	0	0	0	0	0	\$0	\$0
Other Fuel Switch	8	10	9	298	2	2	-30	0	\$7,697	-\$3,582
Refrigeration	273	860	798	7,326	92	88	0	2	\$174,951	\$65,982
Space Heat Efficiency	4	26	25	429	3	0	10	0	\$4,832	\$4,744
Ventilation	33	16	15	194	0	5	83	0	\$8,183	\$408
Totals		6,653	6,483	79,187	970	816	7,944	1,483	\$1,571,373	\$1,185,214

**6. SUBMARKET RESOURCE ACQUISITION RESULTS—
ELECTRIC ONLY**

6.1 Electric Market Rate Multifamily New Construction Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	256	233	719
Costs			
EVT Incentives	\$130,415	\$108,060	\$319,185
Participant Costs	\$221,249	\$201,182	\$652,913
Third Party Costs	\$0	\$0	\$9,072
Annualized MWh Savings	618	425	1,423
Lifetime MWh Savings	9,434	6,284	22,214
TRB Savings (2012\$)	\$1,541,900	\$1,121,668	\$4,545,300
Winter Coincident Peak KW Savings	106	60	236
Summer Coincident Peak KW Savings	69	62	189
Annualized MWh Savings/Participant	2.414	1.824	1.979
Weighted Lifetime	15	15	16

6.2 Electric Market Rate Multifamily New Construction - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	105	65	57	968	12	10	0	0	\$19,727	\$6,069
Cooking and Laundry	183	24	22	335	2	2	57	748	\$3,060	\$26,344
Design Assistance	4	0	0	0	0	0	0	0	\$400	-\$5
Hot Water Efficiency	172	0	0	0	0	0	528	366	\$18,218	-\$13,121
Lighting	228	214	192	2,672	31	21	-40	0	\$54,175	\$26,858
Motors	16	24	22	365	2	2	0	0	\$2,931	\$3,733
Other Fuel Switch	88	21	27	640	5	4	-75	0	\$764	\$5,688
Refrigeration	228	19	18	315	2	2	0	0	\$4,184	\$14,152
Space Heat Efficiency	181	30	27	523	5	21	1,042	0	\$835	\$122,681
Ventilation	148	27	25	464	2	1	264	0	\$3,765	\$8,784
Totals		425	390	6,284	60	62	1,775	1,114	\$108,060	\$201,182

6.3 Electric Market Rate Multifamily Retrofit Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	16	9	306
Costs			
EVT Incentives	\$30,725	\$4,419	\$117,675
Participant Costs	\$93,886	\$4,082	\$273,049
Third Party Costs	\$0	\$0	\$0
Annualized MWh Savings	110	56	654
Lifetime MWh Savings	2,120	824	9,894
TRB Savings (2012\$)	\$204,360	\$43,430	\$842,493
Winter Coincident Peak KW Savings	40	8	178
Summer Coincident Peak KW Savings	6	0	32
Annualized MWh Savings/Participant	6.880	6.177	2.136
Weighted Lifetime	19	15	15

6.4 Electric Market Rate Multifamily Retrofit - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Hot Water Efficiency	2	0	0	2	0	0	0	4	\$5	\$0
Lighting	6	1	1	4	0	0	0	0	\$55	\$0
Motors	2	54	53	808	8	0	0	0	\$4,000	\$3,658
Refrigeration	1	1	1	8	0	0	0	0	\$250	\$490
Ventilation	1	0	0	2	0	0	0	0	\$110	-\$67
Totals		56	55	824	8	0	0	4	\$4,419	\$4,082

6.5 Electric Low Income Multifamily New Construction and Retrofit Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	561	741	2,866
<u>Costs</u>			
EVT Incentives	\$164,309	\$334,809	\$881,895
Participant Costs	\$84,345	\$250,908	\$1,029,244
Third Party Costs	\$0	\$31,349	\$51,349
Annualized MWh Savings	471	814	2,507
Lifetime MWh Savings	6,083	11,379	38,139
TRB Savings (2012\$)	\$769,953	\$1,088,145	\$4,802,335
Winter Coincident Peak KW Savings	77	117	413
Summer Coincident Peak KW Savings	42	80	252
Annualized MWh Savings/Participant	0.840	1.098	0.875
Weighted Lifetime	13	14	15

6.6 Electric Low Income Multifamily New Construction & Retrofit - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	16	12	11	183	0	2	0	0	\$4,858	\$8,828
Cooking and Laundry	179	21	19	298	1	1	96	812	\$7,327	\$24,556
Design Assistance	16	0	0	0	0	0	0	0	\$10,585	\$1,415
Electronics	123	6	5	23	1	1	0	0	\$2,175	\$219
Hot Water Efficiency	129	19	18	184	2	1	392	715	\$3,049	\$1,065
Lighting	535	409	374	5,519	70	36	-14	0	\$151,009	-\$12,126
Motors	24	4	4	43	0	0	0	0	\$0	\$1,200
Other Efficiency	332	0	0	0	0	0	0	0	\$300	-\$300
Other Fuel Switch	75	35	37	1,063	8	6	-125	0	\$939	\$7,639
Other Indirect Activity	16	0	0	0	0	0	0	0	\$20,000	-\$20,000
Refrigeration	254	212	188	2,613	19	24	0	0	\$109,599	\$93,905
Space Heat Efficiency	16	25	22	569	10	2	1,275	0	\$2,986	\$132,871
Ventilation	170	71	63	884	7	6	0	0	\$21,981	\$11,637
Totals		814	740	11,379	117	80	1,624	1,527	\$334,809	\$250,908

6.7 Electric Low Income Multifamily New Construction Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	95	132	425
Costs			
EVT Incentives	\$66,485	\$114,083	\$270,338
Participant Costs	\$53,964	\$133,469	\$425,081
Third Party Costs	\$0	\$0	\$0
Annualized MWh Savings	187	288	816
Lifetime MWh Savings	2,801	4,339	13,169
TRB Savings (2012\$)	\$477,491	\$705,807	\$2,650,048
Winter Coincident Peak KW Savings	32	34	134
Summer Coincident Peak KW Savings	16	27	104
Annualized MWh Savings/Participant	1.973	2.182	1.920
Weighted Lifetime	15	15	16

6.8 Electric Low Income Multifamily New Construction - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	38	6	5	91	0	1	0	0	\$2,608	\$2,527
Cooking and Laundry	63	9	8	131	0	0	79	409	\$712	\$14,770
Hot Water Efficiency	63	0	0	0	0	0	381	534	\$2	\$1,065
Lighting	131	183	173	2,740	23	14	-2	0	\$98,263	-\$35,514
Other Fuel Switch	62	14	18	429	3	3	-50	0	\$39	\$4,979
Refrigeration	108	22	20	314	2	3	0	0	\$2,304	\$16,417
Space Heat Efficiency	63	7	6	139	1	2	1,207	0	\$2,987	\$124,845
Ventilation	111	46	41	494	5	5	0	0	\$7,169	\$4,380
Totals		288	272	4,339	34	27	1,615	942	\$114,083	\$133,469

6.9 Electric Low Income Multifamily Retrofit Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	466	609	2,866
Costs			
EVT Incentives	\$97,824	\$220,726	\$611,557
Participant Costs	\$30,381	\$117,440	\$604,162
Third Party Costs	\$0	\$31,349	\$51,349
Annualized MWh Savings	284	526	1,691
Lifetime MWh Savings	3,282	7,041	24,969
TRB Savings (2012\$)	\$292,462	\$382,338	\$2,152,287
Winter Coincident Peak KW Savings	45	83	279
Summer Coincident Peak KW Savings	26	53	148
Annualized MWh Savings/Participant	0.609	0.863	0.590
Weighted Lifetime	12	13	15

6.10 Electric Low Income Multifamily Retrofit - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	16	6	5	92	0	1	0	0	\$2,251	\$6,301
Cooking and Laundry	179	12	11	166	1	1	17	403	\$6,615	\$9,785
Design Assistance	16	0	0	0	0	0	0	0	\$10,585	\$1,415
Electronics	123	6	5	23	1	1	0	0	\$2,175	\$219
Hot Water Efficiency	129	19	18	184	2	1	11	181	\$3,047	\$0
Lighting	535	226	201	2,779	47	22	-13	0	\$52,746	\$23,388
Motors	24	4	4	43	0	0	0	0	\$0	\$1,200
Other Efficiency	332	0	0	0	0	0	0	0	\$300	-\$300
Other Fuel Switch	75	21	19	635	5	4	-75	0	\$900	\$2,660
Other Indirect Activity	16	0	0	0	0	0	0	0	\$20,000	-\$20,000
Refrigeration	254	189	168	2,299	17	21	0	0	\$107,295	\$77,488
Space Heat Efficiency	16	18	16	430	9	0	68	0	\$0	\$8,026
Ventilation	170	25	22	390	2	2	0	0	\$14,812	\$7,257
Totals		526	468	7,041	83	53	9	584	\$220,726	\$117,440

6.11 Electric Business Non-Farm Equipment Replacement Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	1,633	1,717	4,457
Costs			
EVT Incentives	\$4,221,244	\$4,994,394	\$14,440,850
Participant Costs	\$4,586,202	\$4,186,305	\$12,392,189
Third Party Costs	\$0	\$0	\$225,000
Annualized MWh Savings	19,546	19,792	67,230
Lifetime MWh Savings	249,129	239,781	813,430
TRB Savings (2012\$)	\$16,799,448	\$14,428,726	\$53,739,349
Winter Coincident Peak KW Savings	3,289	2,673	9,922
Summer Coincident Peak KW Savings	2,542	2,753	8,948
Annualized MWh Savings/Participant	11.969	11.527	15.084
Weighted Lifetime	13	12	12

6.12 Electric Business Non-Farm Equipment Replacement - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	103	1,451	1,332	25,955	68	165	2	0	\$420,245	\$356,304
Cooking and Laundry	6	4	4	69	0	1	69	3	\$4,931	\$14,093
Design Assistance	16	5	5	11	0	1	0	0	\$78,820	\$19,578
Electronics	76	178	153	887	56	4	0	0	\$9,715	\$9,402
Hot Water Efficiency	11	0	0	3	0	0	779	484	\$569	-\$7
Hot Water Fuel Switch	1	17	18	517	2	1	-56	0	\$1	\$8,886
Industrial Process Eff.	28	1,681	1,823	17,518	197	182	246	0	\$116,115	\$314,205
Lighting	1,502	14,129	12,636	167,860	2,130	2,089	-6,726	0	\$4,078,995	\$2,700,877
Motors	35	1,331	1,252	14,851	109	188	99	0	\$107,720	\$223,489
Other Efficiency	76	4	4	63	0	0	0	0	\$14,775	-\$14,236
Other Fuel Switch	1	55	52	1,098	7	5	-820	0	\$10,000	\$91,000
Refrigeration	84	718	677	7,303	73	78	0	12	\$85,735	\$86,214
Space Heat Efficiency	16	24	23	428	7	1	1,205	0	\$8,195	\$40,627
Space Heat Fuel Switch	1	40	42	1,189	0	0	-155	0	\$8,399	\$9,374
Ventilation	14	155	146	2,031	25	36	1,321	0	\$50,179	\$326,499
Totals		19,792	18,167	239,781	2,673	2,753	-4,036	498	\$4,994,394	\$4,186,305

6.13 Electric Business Non-Farm Retrofit Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	453	430	1,309
Costs			
EVT Incentives	\$2,643,010	\$7,309,644	\$13,487,995
Participant Costs	\$8,829,418	\$9,934,186	\$28,219,383
Third Party Costs	(\$0)	\$9,100	\$39,101
Annualized MWh Savings	20,523	24,683	66,490
Lifetime MWh Savings	268,431	321,181	878,316
TRB Savings (2012\$)	\$23,353,286	\$24,669,631	\$70,977,968
Winter Coincident Peak KW Savings	2,970	4,566	10,718
Summer Coincident Peak KW Savings	2,049	1,752	6,749
Annualized MWh Savings/Participant	45.305	57.402	50.794
Weighted Lifetime	13	13	13

6.14 Electric Business Non-Farm Retrofit - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	38	703	697	8,333	36	116	9,405	0	\$70,160	\$244,707
Cooking and Laundry	5	8	8	143	2	2	354	343	\$1,074	\$31,408
Design Assistance	220	539	499	2,984	19	19	1,680	0	\$815,846	\$452,195
Electronics	43	111	100	475	15	0	147	0	\$4,013	\$68,197
Hot Water Efficiency	54	5	5	26	6	7	515	1,123	\$2,278	\$53
Hot Water Fuel Switch	2	28	31	836	4	1	-99	0	\$2,110	\$15,032
Industrial Process Eff.	48	13,350	14,156	167,447	3,073	640	12,479	0	\$4,041,891	\$5,479,836
Lighting	198	5,506	4,912	92,435	844	557	-1,685	0	\$900,794	\$3,228,092
Motors	32	2,606	2,599	28,090	299	296	-121	0	\$418,340	\$474,009
Other Efficiency	27	126	114	1,432	13	14	0	0	\$42,755	-\$28,126
Other Fuel Switch	1	89	89	1,775	10	10	0	0	\$9,100	\$121,451
Other Indirect Activity	4	0	0	0	0	0	5,102	0	\$837,424	-\$837,424
Refrigeration	33	817	759	6,952	81	68	481	0	\$103,101	\$127,657
Space Heat Efficiency	20	497	495	7,093	145	9	-388	0	\$46,001	\$474,200
Space Heat Fuel Switch	2	21	24	632	6	0	188	0	\$1,300	\$33,667
Ventilation	7	259	253	2,356	8	9	1,439	0	\$10,340	\$48,047
Water Conservation	1	17	17	173	4	4	0	120	\$3,117	\$1,185
Totals		24,683	24,757	321,181	4,566	1,752	29,499	1,586	\$7,309,644	\$9,934,186

6.15 Electric Market Rate Single Family Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	3,332	11,748	15,523
Costs			
EVT Incentives	\$192,642	\$639,593	\$962,656
Participant Costs	\$86,706	\$187,345	\$510,151
Third Party Costs	\$0	\$209	\$89,108
Annualized MWh Savings	515	1,643	2,711
Lifetime MWh Savings	8,655	19,204	40,597
TRB Savings (2012\$)	\$1,054,940	\$1,500,319	\$3,270,625
Winter Coincident Peak KW Savings	108	381	620
Summer Coincident Peak KW Savings	56	149	255
Annualized MWh Savings/Participant	0.154	0.140	0.175
Weighted Lifetime	17	12	15

6.16 Electric Market Rate Single Family - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	7	1	1	15	0	2	0	0	\$700	-\$21
Electronics	11,594	534	528	2,134	54	67	0	0	\$193,495	-\$2,331
Hot Water Efficiency	11,594	97	96	870	11	6	1,339	4,407	\$76,068	\$2,431
Hot Water Fuel Switch	107	236	388	7,070	36	19	-1,012	0	\$27,700	\$88,100
Lighting	11,598	619	612	6,519	199	55	0	0	\$310,769	\$766
Other Efficiency	6	0	0	0	0	0	0	0	\$0	\$0
Other Fuel Switch	7	7	7	208	1	1	-21	0	\$700	\$1,540
Space Heat Efficiency	34	141	138	2,108	74	0	122	0	\$30,161	\$86,360
Space Heat Fuel Switch	1	9	10	279	5	0	-30	0	\$0	\$10,500
Totals		1,643	1,780	19,204	381	149	399	4,407	\$639,593	\$187,345

6.17 Electric Low Income Single Family Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	958	936	3,776
Costs			
EVT Incentives	\$545,819	\$718,397	\$2,850,682
Participant Costs	\$6,374	\$6,359	\$25,007
Third Party Costs	\$5,845	(\$5,989)	(\$6,100)
Annualized MWh Savings	799	943	3,929
Lifetime MWh Savings	8,316	10,526	42,808
TRB Savings (2012\$)	\$633,887	\$609,704	\$3,009,945
Winter Coincident Peak KW Savings	151	183	685
Summer Coincident Peak KW Savings	86	104	383
Annualized MWh Savings/Participant	0.834	1.007	1.040
Weighted Lifetime	10	11	11

6.18 Electric Low Income Single Family - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	2	0	0	4	0	0	0	0	\$0	\$568
Cooking and Laundry	119	79	70	1,103	10	8	0	1,047	\$85,220	\$13,065
Electronics	435	55	49	219	6	7	0	0	\$20,994	\$2,567
Hot Water Efficiency	437	78	69	754	9	6	0	617	\$13,612	\$391
Hot Water Fuel Switch	5	18	16	528	3	1	-59	0	\$10,645	\$1,230
Lighting	756	264	234	2,241	108	29	0	0	\$96,837	\$3,681
Motors	2	3	3	30	0	0	0	0	\$0	\$106
Other Efficiency	917	0	0	0	0	0	0	0	\$0	\$0
Other Fuel Switch	14	17	15	496	3	3	-50	0	\$13,166	-\$4,186
Refrigeration	558	393	349	4,716	36	46	0	0	\$461,659	-\$3,822
Space Heat Efficiency	41	1	1	10	0	0	0	0	\$11,565	-\$11,018
Space Heat Fuel Switch	1	7	6	205	4	0	-24	0	\$0	\$2,336
Ventilation	89	10	9	185	1	2	0	0	\$4,700	-\$30
Water Conservation	4	19	17	35	2	1	0	0	\$0	\$1,470
Totals		943	837	10,526	183	104	-134	1,664	\$718,397	\$6,359

6.19 Electric Large Industrial Summary

	<u>Prior Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting 1/1/12</u>
# participants with installations	63	65	99
Costs			
EVT Incentives	\$1,533,551	\$5,618,007	\$8,204,558
Participant Costs	\$5,656,246	\$4,797,781	\$16,218,141
Third Party Costs	(\$0)	\$0	(\$0)
Annualized MWh Savings	14,520	15,202	42,976
Lifetime MWh Savings	175,407	182,384	521,879
TRB Savings (2012\$)	\$17,057,918	\$14,989,435	\$53,121,789
Winter Coincident Peak KW Savings	2,592	3,238	7,637
Summer Coincident Peak KW Savings	1,303	898	3,615
Annualized MWh Savings/Participant	230.478	233.880	434.102
Weighted Lifetime	12	12	12

6.20 Electric Large Industrial - End Use Breakdown

End Use	# of Participants	Net MWH Saved	Gross MWH Saved	Net Lifetime MWH Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBTU	Net Water CCF Saved	Participant Incentives Paid	Participant Costs
Air Conditioning Eff.	4	342	331	3,683	25	69	0	0	\$29,273	\$57,370
Cooking and Laundry	2	4	3	47	1	2	19	7	\$315	\$795
Design Assistance	34	261	243	1,069	15	15	259	0	\$430,440	\$105,423
Electronics	1	40	36	198	7	4	0	0	\$4,190	\$8,222
Hot Water Efficiency	3	0	0	0	0	0	276	595	\$828	\$0
Hot Water Fuel Switch	1	17	18	517	2	1	-56	0	\$1	\$8,886
Industrial Process Eff.	25	11,516	12,294	139,597	2,796	477	11,925	0	\$3,933,854	\$4,414,069
Lighting	34	992	893	14,240	136	110	-303	0	\$159,862	\$301,502
Motors	16	1,808	1,782	19,652	229	196	-117	0	\$340,270	\$385,620
Other Efficiency	2	0	0	0	0	0	0	0	\$0	\$0
Other Fuel Switch	1	55	52	1,098	7	5	-820	0	\$10,000	\$91,000
Other Indirect Activity	3	0	0	0	0	0	5,102	0	\$687,424	-\$687,424
Refrigeration	2	9	8	102	3	3	0	0	\$2,602	\$6,219
Space Heat Efficiency	2	29	28	331	9	8	1,370	0	\$940	\$70,041
Space Heat Fuel Switch	1	40	42	1,189	0	0	-155	0	\$8,399	\$9,374
Ventilation	4	73	66	488	4	4	296	0	\$6,491	\$25,498
Water Conservation	1	17	17	173	4	4	0	120	\$3,117	\$1,185
Totals		15,202	15,812	182,384	3,238	898	17,797	722	\$5,618,007	\$4,797,781

7. LIST OF SUPPORT DOCUMENTS, BY SERVICE

DOCUMENTS, CORRESPONDING MARKETS, AND 2014 STATUS

#	Document Name / Title	Major Market	Status	Date
57	Levelized Costs - Revision to include TEPF funding	EVT-Wide	Under internal review	3/7/2014
103	Savings claim approach for Energy Savings Kits Program	RES	Under internal review	3/25/2014
104	Room Air Conditioner recycling program	RES	Under internal review	9/24/2014
105	Upstream Cold Climate Heat Pump	C&I, RES	Implemented	10/13/2014
106	Maple Reverse Osmosis	C&I	Draft	10/29/2014
107	Residential Behavior	RES	Draft	11/13/2014

Key:

EVT-Wide Efficiency Vermont-Wide

RES Residential

C&I Commercial & Industrial

8. Definitions and End Notes

8.1 DATA TABLES OVERVIEW

1 – Section **8.2** includes a list of definitions for items in the data tables.

2 – Data items for which data are not available are labeled “nav.” Data items for which data are not applicable are labeled “nap” or “NA”

3 – Except where noted, Efficiency Vermont expenditures data in this report were incurred during the period January 1, 2014, through December 31, 2014. Similarly, measure savings are for measures installed during the period January 1, 2014, through December 31, 2014.

4 – Efficiency Vermont Resource Acquisition and Non Resource Acquisition costs include an operations fee of 1.71% and are reported in all applicable cost categories. The operations fees for “Incentives to Participants” are reported with the “Administration” costs.

5 – Data for “Incentives to Participants” in Tables **3.8, 3.9, 3.14, 3.16, 3.19, 3.22, 3.24, 4.1, 4.4, 4.7, 4.10, 4.13, 4.16, 4.19, 4.22, 4.25, 4.28,** and **5.1.2** are based on financial data from Vermont Energy Investment Corporation’s (VEIC’s) accounting system. “Participant Incentives Paid” on all other tables are based on data entered in Efficiency Vermont’s Knowledge-based Information Technology Tool (KITT) tracking system.

6 – “Annualized MWh Savings (adjusted for measure life),” “Winter Coincident Peak kW Savings (adjusted for measure life),” and “Summer Coincident Peak kW Savings (adjusted for measure life)” on Tables **3.8** and **3.9** are provided for reference only. These data exclude savings for measures that have reached the end of their specified lifetime.

8.2 DEFINITIONS AND REPORT TEMPLATE

The table templates that appear in the 2014 Efficiency Vermont Savings Claim Summary/Annual Report were developed as a collaborative effort among Efficiency Vermont, the Vermont Public Service Department, and Burlington Electric Department. Note that there are two major table formats, one for the markets and services summary and the other for breakdowns by end use, county, and utility savings.

The definitions of the data reported in these tables follow. The numbers in parentheses on the template refer to the footnoted definitions that immediately follow.

	<u>Prior</u> <u>Year</u>	<u>Current Year</u> <u>2014</u>	<u>Cumulative</u> <u>starting</u> <u>1/1/12</u>	<u>Cumulative</u> <u>starting</u> <u>1/1/12</u>
	(1)	(2)	(3)	(4)
# participants with installations	(5)			
<u>Operating Costs</u>				
Administration	(6)			
Operations and Implementation	(7)			
<u>Strategy and Planning</u>	(8)			
Subtotal Operating Costs	(9)			
<u>Technical Assistance Costs</u>				
Services to Participants	(10)			
<u>Services to Trade Allies</u>	(11)			
Subtotal Technical Assistance Costs	(12)			
<u>Support Services</u>				
Transportation	(13)			
Targeted Implementation	(14)			
Consulting	(15)			
Marketing	(16)			
EM&V	(17)			
Policy	(18)			
Information Technology	(19)			
Customer Support	(20)			
<u>Business Development</u>	(21)			
Subtotal Support Services Costs	(22)			
<u>Incentive Costs</u>				
Incentives to Participants ¹	(23)			
<u>Incentives to Trade Allies</u>	(24)			
Subtotal Incentive Costs	(25)			
<u>Total Efficiency Vermont Costs</u>	(26)			
Total Participant Costs	(27)			
<u>Total Third Party Costs</u>	(28)			
<u>Total Resource Acquisition Costs</u>	(29)			
Annualized MWh Savings	(30)			
Lifetime MWh Savings	(31)			
TRB Savings (2012 \$)	(32)			
Winter Coincident Peak kW Savings	(33)			
Summer Coincident Peak kW Savings	(34)			
Annualized MWh Savings/Participant	(35)			
Weighted Lifetime	(36)			
Annualized MWh Savings (adjusted for measure life)			(37)	
Winter Coincident Peak kW Savings (adjusted for measure life)			(38)	
Summer Coincident Peak kW Savings (adjusted for measure life)			(39)	

X.X.X. Breakdown Report

End Use or Utility or County	# of Participants	Net MWh Saved	Gross MWh Saved	Net Lifetime MWh Saved	Net Winter KW Saved	Net Summer KW Saved	Net Other Fuel MMBtu	Net Water CCF	Participant Incentives Paid	Participant Costs
	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)	(49)

Footnotes for the report table templates:

(1) Activity for the prior reporting year.

(2) Activity for the current reporting year. For savings, the figure reported is estimated savings for measures actually implemented for the current reporting period. Savings are reported in at generation and net of all approved adjustment factors, except as otherwise noted.

(3) Data reported for the current performance period (2012-2014) starting January 1, 2012 through December 31, 2014.

(4) Data reported for ALL performance periods (2012 - future periods) starting January 1, 2012 through December 31, 2014.

(5) Number of customers with installed measures. The “# participants with installations” is counted by summing unique physical locations (sites) where efficiency measures have been installed for the reporting period. For multifamily, the “#of participants with installations” is counted by summing the number of individual units. Under “Cumulative starting 1/1/12” customers are counted once, regardless of the number of times the customer participates in Efficiency Vermont services throughout the period. Whenever Efficiency Vermont works in collaboration with other providers of efficiency services, the same participants may be counted and reported by more than one organization. As a result, total statewide participation might be less than the sum of all the organizations’ reported participants.

(6) Costs include Efficiency Vermont senior management, budgeting and financial oversight.

(7) Costs directly associated with the operations and implementation of resource acquisition activities.

(8) Costs related to program design, planning, screening, and other similar strategy and planning functions.

(9) Subtotal of all operating costs detailed in the categories above: (6) + (7) + (8).

(10) Costs related to technical assistance, conducting technical analyses, preparing packages of efficiency measures, contract management, and project follow-up provided to customers.

(11) Costs related to technical assistance, educational or other support services provided to entities other than individual participants, such as trade allies, manufacturers, wholesalers, builders, and architects.

(12) Subtotal reflecting total technical assistance costs: (10) + (11).

(13) Costs related to support provided by the VEIC transportation division.

- (14) Costs related to support provided by the VEIC targeted implementation division.
- (15) Costs related to support provided by the VEIC consulting division.
- (16) Costs related to support provided by the VEIC marketing division.
- (17) Costs related to support provided by the VEIC evaluation, measurement and verification division.
- (18) Costs related to support provided by the VEIC policy division.
- (19) Costs related to support provided by the VEIC information technology division.
- (20) Costs related to support provided by the VEIC customer support services division.
- (21) Costs related to support provided by the VEIC business development division.
- (22) Total cost of Support Services.
- (23) Direct payments to participants to defray the costs of specific efficiency measures.
- (24) Incentives paid to manufacturers, wholesalers, builders, retailers, or other non-customer stakeholders that do not defray the costs of specific efficiency measures.
- (25) Subtotal reflecting total incentive costs: (23) + (24).
- (26) Total costs incurred by Efficiency Vermont. All costs are in nominal dollars: (9) + (12) + (22) + (25).
- (27) Total costs incurred by participants and related to Efficiency Vermont or utility activities. This category includes the participant contribution to the capital costs of installed measures and to specific demand-side-management (DSM)-related services, such as technical assistance or energy ratings.
- (28) Total costs incurred by third parties (i.e., entities other than Efficiency Vermont, utilities, and participants) and directly related to Efficiency Vermont or utility DSM activities. This category includes contributions by third parties to the capital costs of installed measures and to specific DSM-related services, such as technical assistance or energy ratings.
- (29) Total cost of Resource Acquisition: (26) + (27) + (28).
- (30) Annualized MWh savings at generation, net of all approved adjustment factors (e.g., free riders, spillover, line loss) for measures installed during the current reporting period.
- (31) Lifetime estimated MWh savings for measures installed during the current reporting year, at generation and net of all approved adjustment factors. (Typically, this value is calculated by multiplying estimated annualized savings by the life of the measure.)
- (32) Total Resource Benefits (TRB) savings for measures installed during the current reporting year. TRB includes gross electric benefits, fossil fuel savings, and water savings. TRB is stated in 2012 dollars throughout the report. Whenever Efficiency Vermont works in collaboration with other providers of efficiency services, the same savings might be counted and reported by more than one organization. As a result, the total statewide savings might be less than the sum of all the organizations' reported savings.
- (33) Estimated impact of measures at time of winter system peak, at generation, net of adjustment factors.

(34) Estimated impact of measures at time of summer system peak, at generation, net of adjustment factors.

(35) Annualized MWh savings per participant, net at generation: (30) ÷ (5).

(36) Average lifetime, in years, of measures weighted by savings: (31) ÷ (30).

(37) Adjusted annualized MWh savings at generation and net of all approved adjustment factors (e.g., free riders, spillover, line loss) for measures installed during the current reporting period. These data include savings for measures that have not yet expired during the reporting period and exclude savings for measures that have reached the end of their specified lifetime.

(38) Adjusted impact of measures at time of winter system peak, at generation, net of adjustment factors. These data include savings for measures that have not yet expired during the reporting period and exclude savings for measures that have reached the end of their specified lifetime.

(39) Adjusted impact of measures at time of summer system peak, at generation, net of adjustment factors. These data include savings for measures that have not yet expired during the reporting period and exclude savings for measures that have reached the end of their specified lifetime.

Items 40-49 reflect installed measures for the current reporting period.

(40) Number of participants with installed measures for the “End Use, Utility and County Breakdown.” Whenever Efficiency Vermont works in collaboration with other providers of efficiency services, the same participants may be counted and reported by more than one organization. As a result, total statewide participation might be less than the sum of all the organizations’ reported participants.

(41) Annualized MWh savings at generation, net of all approved adjustment factors (e.g., free riders, spillover, line loss) for measures installed during the current reporting period. This is the same number as reported on line (30).

(42) Annualized MWh savings, gross at the customer meter.

(43) Lifetime estimated MWh savings for measures installed during the current reporting period, at generation and net of all approved adjustment factors. This is the same number as that reported on line (31).

(44) Estimated impact of measures at time of winter system peak, at generation, net of adjustment factors. This is the same number as that reported on line (33).

(45) Estimated impact of measures at time of summer system peak, at generation, net of adjustment factors. This is the same number as that reported on line (34).

(46) MMBtu estimated to be saved (positive) or used (negative) for alternative fuels as a result of measures installed in the end use.

(47) Water saved (positive) or used (negative) as a result of measures installed in the end use.

(48) Incentives paid by Efficiency Vermont to participants for measures installed during the current reporting period. This is the same number as that reported on line (23).

(49) Costs incurred by participants and related to Efficiency Vermont or utility activities. This is the same number as that reported on line (27).

ERRATUM

In the Savings Claim Summaries and Annual Reports for 2012 and 2013, as well as in the Savings Claim Summary for 2014, the levelized costs of thermal energy and process fuel savings were incorrectly divided by 1,000, significantly understating their costs, relative to the cost of purchased energy. An inquiry to Efficiency Vermont's Customer Support staff brought this error to our attention on May 16, 2015. The error applied both to the resource cost of achieving savings as well as to the avoided cost of supply. The original relevant text in the 2014 Savings Claim Summary stated:

Efficiency Vermont's efforts that were focused on thermal energy and process fuels savings supplied efficiency in 2014 at 1.2 cents per million British thermal units (MMBtu). Taking into account participating customers' additional costs and savings, the levelized net resource cost of fossil fuel saved through efficiency in 2014 was 2.1 cents per MMBtu, whereas the avoided cost for that fuel was 2.9 cents per MMBtu.

The text should instead read:

Efficiency Vermont's efforts that were focused on thermal energy and process fuels savings supplied efficiency in 2014 at \$12 per million British thermal units (MMBtu). Taking into account participating customers' additional costs and savings, The levelized net resource cost of fossil fuel saved through efficiency in 2014 was \$21 per MMBtu, whereas the avoided cost for that fuel was \$29 per MMBtu.

The text in the online editions of these documents was corrected June 9, 2015, with an explanatory footnote. The text in the 2014 Annual Report contains the correct values. This error has no effect on Efficiency Vermont's performance on its QPIs or on ratepayer investments. We are grateful to the customer who brought this error to our attention and we apologize for the inconvenience we might have created with the incorrect information.



128 LAKESIDE AVENUE, SUITE 401
BURLINGTON, VERMONT 05401
(888) 921-5990

WWW.EFFICIENCYVERMONT.COM