

Cape Light Compact Executive Committee & Governing Board Meeting

DATE: Wednesday, September 14, 2016
LOCATION: Innovation Room, Open Cape Building
3195 Main Street, Barnstable County Complex
TIME: 1:00 – 4:30 p.m.

AGENDA

- 1:00 Open Session Vote on entry into Executive Session pursuant to M.G.L. c. 30A §§21(a)(3), (a)(9) and (a)(10) to discuss:
1. Confidential power supply contracts including trade secrets or confidential, competitively-sensitive or other proprietary information if it is determined that disclosure will adversely affect the Compact's ability to conduct business in relation to other entities making, selling or distributing electric power and energy
 2. Update on pending mediation and regulatory litigation strategy (D.P.U. 15-166) regarding dispute with National Grid and Compact and National Grid Agreement for Natural Gas Heated Homes
- 3:00 – Return to Open Session
Public Comment
Approval of Minutes
Administrative Services Agreement Discussion, Jack Yunits,
County Administrator
Energy Efficiency
1. 2013-2015 Term Report, Meredith Miller
 2. BEES Presentation, Debbie Fitton
- Treasurer's Report: Potential Vote to Ratify Treasurer's Approval of Contracts
Chairman's Report:
1. New Board Member Packets
 2. Meeting with Town Energy Committees
- Administrators' Report:
1. Meeting with DOER
 2. Update on Insurance Coverage
 3. NEED Board
- Board Member Update (Reserved for Updates on Member Activities the Chair Did Not Reasonably Anticipate Would be Discussed – No Voting)

**Cape Light Compact
Governing Board and Executive Committee
Open Session Meeting Minutes
Wednesday, July 13, 2016**

The Cape Light Compact Governing Board and Executive Committee met on Wednesday, July 13, 2016 in the Innovation Room, Open Cape Building, Barnstable County Complex, 3195 Main Street, Barnstable MA 02630 at 12:36 p.m.

PRESENT WERE:

1. Joyce Flynn, Chair, Yarmouth
2. Peter Cocolis, Treasurer, Chatham
3. Ronald Zweig, Secretary, Falmouth
4. Richard Toole, Member at Large, Oak Bluffs – by phone
5. David Anthony, Barnstable
6. Deane Keuch, Brewster at 12:54 pm
7. Andrew Gottlieb, Mashpee
8. Thomas Donegan, Provincetown
9. Joshua Peters, Sandwich
10. Joseph Buteau, Truro
11. Richard Elkin, Wellfleet
12. Sue Hruby, West Tisbury
13. Sheila Lyons, Barnstable County at 1:32 pm

ABSENT WERE:

14. Paul Pimentel, Edgartown
15. John Ally, Dukes County
16. Chris Galazzi, Orleans
17. Michael Hebert, Aquinnah
18. Tim Carroll, Chilmark
19. Fred Fenlon, Eastham
20. Brad Crowell, Dennis
21. Valerie Bell, Harwich
22. Robert Schofield, Vice-Chair
23. Tisbury - vacant

Members physically present: 12
Members present by phone: 1

LEGAL COUNSEL

Jeff Bernstein, Esq., BCK Law, PC

STAFF PRESENT:

Maggie Downey, Administrator
Austin Brandt, Power Supply Planner
Phil Moffitt, Residential Manager
Lindsay Henderson, Analyst
Margaret Song, C&I Program Manager
Linda Stella, Administrative Assistant

Chr. Flynn opened the meeting at 12:36 pm and declared this meeting as an Executive Committee Meeting only, as only ten members of the Board were physically present and a quorum of 12 was needed to convene as the Governing Board; four members of the Executive Committee (one member participated remotely) out of five Executive Committee Members forming a quorum of the Executive Committee and a total of eight Governing Board members were present.

J. Bernstein stated that the best guidance from the Attorney General's office is that non-Executive Committee Board Members may participate in discussion but cannot discuss with board members who are not present at the meeting. Today's Executive Session is to update board members, and there will be no decisions made by the Executive Committee.

Chr. Flynn introduced the new board member from Mashpee, Andrew Gottlieb. A. Gottlieb stated that he is in his 3rd year as a Selectman and is currently chair of the Board of Selectmen and works on wastewater issues with the Cape Cod Water Protection Collaborative.

EXECUTIVE SESSION

At 12:41 p.m., Chr. Flynn moved that the Executive Committee enter into Executive Session Pursuant to M.G.L. Chapter 30A M.G.L. 30A, §21(a)(3) and §21(a)(10), to discuss the update on Compact and NGRID Agreement for Natural Gas Heated Homes, the Litigation strategy regarding Electric Distribution Companies and Interstate Natural Gas Pipeline Capacity Contracts, DPU 15-181, DPU 16-05 and DPU 16-07; and Litigation strategies related to Grid Modernization and Plans filed by Massachusetts Distribution Companies (DPU 15-120 and 15-122) and declared that an open session may have a detrimental effect on the Cape Light Compact's litigating position and that disclosure of confidential and competitively-sensitive financial information will adversely affect its ability to conduct business in relation to other entities making, selling or distributing electric power and energy. Chr. Flynn stated that the Executive Committee would return to Open Session at the conclusion of Executive Session.

Seconded by P. Cocolis and voted by roll call as follows:

- | | |
|--------------------------|-----|
| 1. P. Cocolis – Chatham | yes |
| 2. R. Zweig – Falmouth | yes |
| 3. R. Toole – Oak Bluffs | yes |
| 4. J. Flynn – Yarmouth | yes |

Motion carried in the affirmative (4-0-0)

D. Keuch arrived at 12:54 pm.

S. Lyons arrived at 1:32 pm.

Executive Committee returned to open session at 1:36 pm. Chr. Flynn stated that there was now a quorum of the whole Board, so they would proceed as the Governing Board.

PUBLIC COMMENT

There were no members of the public present.

CONSIDERATION OF MEETING MINUTES

The Board considered the June 8, 2016 Meeting Minutes. *After discussion, S. Hruby moved the Board vote to accept the amended minutes, seconded by P. Cocolis and voted by roll call as follows:*

- | | | | |
|---------------------------------|-----|--------------------------|-----|
| 1. D. Anthony – Barnstable | yes | 9. J. Peters – Sandwich | yes |
| 2. S. Lyons – Barnstable County | yes | 10. J. Buteau – Truro | yes |
| 3. D. Keuch – Brewster | yes | 11. R. Elkin – Wellfleet | yes |
| 4. P. Cocolis – Chatham | yes | 12. S. Hruby – W Tisbury | yes |
| 5. R. Zweig – Falmouth | yes | 13. J. Flynn – Yarmouth | yes |
| 6. A. Gottlieb – Mashpee | abs | | |
| 7. R. Toole – Oak Bluffs | yes | | |
| 8. T. Donegan – Provincetown | yes | | |

Motion carried in the affirmative (12-0-1)

The Board considered the June 13, 2016 Meeting Minutes. *After discussion, P. Cocolis moved the Board vote to accept the amended minutes, seconded by R. Elkin and voted by roll call as follows:*

9. D. Anthony – Barnstable	yes	9. J. Peters – Sandwich	yes
10. S. Lyons – Barnstable County	yes	10. J. Buteau – Truro	yes
11. D. Keuch – Brewster	yes	11. R. Elkin – Wellfleet	yes
12. P. Cocolis – Chatham	yes	12. S. Hrubby – W Tisbury	yes
13. R. Zweig – Falmouth	yes	13. J. Flynn – Yarmouth	yes
14. A. Gottlieb – Mashpee	abs		
15. R. Toole – Oak Bluffs	yes		
16. T. Donegan – Provincetown	yes		

Motion carried in the affirmative (12-0-1)

ENERGY EFFICIENCY – COMMERCIAL & INDUSTRIAL PROGRAM

1. Presentation on New Construction Program – Weidt Group
 - Sean Tully, from the Weidt Group, presented the Board with the New Construction Incentive Program. He reviewed the Incentive Program and the process. The Board asked questions and M. Song elaborated on the particular details available for Cape Light Compact participants. S. Tully stated that they reach out to architects and builders to gain participation in the program. He said that, ultimately, the most savings and incentives occur when they are able to assist in the early stages of design. M. Song related that Compact staff often inform her of new projects and encouraged the Board Members to contact her with any new projects. She stated that the Weidt Group meets with the project team, and because of the tool that they use, decisions are able to be made at the time of the meeting rather than having to wait for engineers to do further design work.
2. Discussion on Commercial & Industrial Incentives – Margaret Song
 - M. Song reviewed the Green Communities Legislation and the cost per annual kWh vs. benefit-cost ratio (BCR). She stated that the Compact's BCR is lower than the rest of the state because we offer higher incentives. She said that other Program Administrators (PA) turn down projects because the BCR is too low. M. Song relayed that Codes and Standards are going up every 3 years and this effects the projects that are accepted. The Board was asked to consider if they support increasing the cost per kWh above what we have in the existing Three-Year Plan. It was determined that CLC would continue to operate on the \$1.00 per kWh. and M. Song would monitor costs.

POWER SUPPLY DISCUSSION ON RECS AND RPS REQUIREMENTS – AUSTIN BRANDT

- A. Brandt presented to the Board more information (Beyond the Basics) about Renewable Energy Certificates (RECs), given that the Compact is looking to have more green in the power supply aggregation. He explained what the Renewable Portfolio Standards are in Massachusetts and the minimum requirements that need to be met. A. Brandt also explained the various types of RECs. The Board inquired about the impact of prices and was concerned that the Compact may lose more customers if prices increase. M. Downey and A. Brandt explained that they would most likely pay a little more, but they will also be getting a greener supply which is what a lot of customers are looking for nowadays.

S. Lyons left at 3:16 pm. Chr. Flynn stated that the Board had lost its quorum and was now meeting as an Executive Committee.

TREASURER'S REPORT

P. Cocolis reviewed the Contract Summary sheet listing Contracts and Amendments he has approved, for the period of June 6 through July 13, 2016, which have been forwarded to the County Commissioners for execution and requested the Board vote to ratify his actions. He stated that going forward they will add onto the spreadsheet to which fund the contract was allocated. D. Anthony asked why the contracts were exempt from competitive procurement, and M. Downey stated that they were competitively procured; that will be amended on the form.

P. Cocolis moved the board vote to ratify the actions of the Compact Treasurer relative to Compact contracts from June 6, 2016 through July 13, 2016. The Compact Administrator is authorized and directed to take all actions necessary or appropriate to implement this vote and to execute and deliver all documents as may be necessary or appropriate to implement this vote, seconded by J. Flynn and voted by roll call as follows:

- | | |
|--------------------------|-----|
| 1. P. Cocolis – Chatham | yes |
| 2. R. Zweig – Falmouth | yes |
| 3. R. Toole – Oak Bluffs | yes |
| 4. J. Flynn – Yarmouth | yes |

Motion carried in the affirmative (4-0-0)

P. Cocolis then presented the Energy Efficiency budget and the Operating Fund budget through June 30th. He stated that the Operating Fund was at the end of the Fiscal Year, and that money that remains in the budget will go back into the Power Supply Reserve Fund.

CHAIRMAN'S REPORT

1. New Board Member Packet - Chr. Flynn stated that she would skip the Board Member Packet discussion until next meeting due to time constraint.

Discussion of June Meeting with Representative Hunt – M. Downey stated that there was not a quorum of the Board at the Rep. Hunt meeting so the Board members present, except those on the Executive Committee, were not able to engage in a dialogue with him. She stated that she had a meeting scheduled for Monday with Representative Tim Whelan.

ADMINISTRATOR'S REPORT

- FY17 COLA and Salary Reserve – M. Downey stated that staff has accrued vacation time and compensatory time on the books and the County has directed all departments to plan how to eliminate this liability over the next 3 years. M. Downey stated that the employees who have compensatory time are now exempt employees so they will not accrue any more compensatory time.

P. Cocolis moved the board vote to allow eligible Compact staff to buy-back up to three weeks of vacation and/or compensatory time in FY17. The Compact Administrator is authorized and directed to take all actions necessary or appropriate to implement this vote and to execute and deliver all documents as may be necessary or appropriate to implement this vote, seconded by J. Flynn and voted by roll call as follows:

- | | | | |
|-------------------------|-----|--------------------------|-----|
| 1. P. Cocolis – Chatham | yes | 2. J. Flynn – Yarmouth | yes |
| 3. R. Zweig – Falmouth | yes | 4. R. Toole – Oak Bluffs | yes |

Motion carried in the affirmative (4-0-0)

M. Downey stated that the County has asked for a vote from the Board for the Cost of Living Adjustment, even though the Board voted it as part of their FY17 budget.

P. Cocolis moved the board vote to approve the FY17 employee cost of living adjustment (COLA) in the amount of 2%, and to request that Barnstable County implement the COLA as of July 1, 2016. The Compact Administrator is authorized and directed to take all actions necessary or appropriate to implement this vote and to execute and deliver all documents as may be necessary or appropriate to implement this vote, seconded by J. Flynn and voted by roll call as follows:

- | | |
|--------------------------|-----|
| 1. P. Cocolis – Chatham | yes |
| 2. R. Zweig – Falmouth | yes |
| 3. R. Toole – Oak Bluffs | yes |
| 4. J. Flynn – Yarmouth | yes |

Motion carried in the affirmative (4-0-0)

- Update on Administrative Services Agreement – M. Downey has just received comments back from Barnstable County, and it is asking that the Operating Fund budget be reviewed and presented to the County Commissioners. T. Donegan asked if this will require a change in the Inter-Governmental Agreement. M. Downey stated that they will talk further about this at the September Board Meeting.
- Update on Insurance Coverage – M. Downey stated that the County Finance Director wants the Compact to get a separate quote for insurance, as we have previously been covered under the County's policy. Massachusetts Interlocal Insurance Agency (MIIA) has said that the Compact should be separate because our programs are not under the jurisdiction of the County.
- Legislative Update – M. Downey gave an update on the Senate version of the Energy bill and noted that there were a lot of advocates on all sides. The Power Supply language for new renewable contracts will likely give basic service an advantage over competitive supplier rates. The Compact was not able to add an amendment related to preventing cross-subsidization related to RECs purchased by distribution utilities through long-term renewable contracts. She stated that the Senate version includes a committee on Energy Efficiency established to look at how Energy Efficiency programs are done. The Compact is able to be on that committee as we are a municipal aggregator with a certified energy efficiency plan. She also noted that community empowerment proposal was put through as a pilot.

A. Gottlieb left at 4:31 pm.

M. Downey stated that Property Assessed Clean Energy (PACE) was put in the legislation which is a betterment on property to install renewable energy.

OVERVIEW OF REVISED PUBLIC RECORDS LAW

- J. Bernstein stated that he will discuss this more at a subsequent Board Meeting due to time, but that they Compact needs to follow this.

BOARD MEMBER UPDATE

No updates from the Board Members.

Meeting adjourned at 4:39 pm.

Draft Minutes subject to correction, addition and Committee/Board Approval
Respectfully submitted,
Linda Stella

LIST OF DOCUMENTS & EXHIBITS

- Meeting Notice/Agenda
- June 8, 2016 Meeting Minutes – Draft
- June 13, 2016 Meeting Minutes – Draft
- Press Release Announcing Grant for Solar on Low Income Homes
- C&I New Construction Presentation from the Weidt Group
- C&I Presentation on Incentives
- Summary of Contracts – 6/6/16-7/13/16
- FY 16 Operating Budget Report dated 7/12/2016
- 2016 Energy Efficiency Budget through 6/30/16
- The Wonderful World of RECs – Part 2 7/13/16

**FIRST AMENDED AND RESTATED
ADMINISTRATIVE SERVICES AGREEMENT
BETWEEN BARNSTABLE COUNTY AND CAPE LIGHT COMPACT**

SECTION I. PREAMBLE

This Administrative Services Agreement ("Agreement") is entered into between Barnstable County ("the County") and the Cape Light Compact ("Compact"). The purpose of this Agreement is to allow the County to provide the Compact with a variety of administrative and financial services under the terms specified below.

Within this document, the term "party" refers to the County or the Compact and the term "parties" refers to the County and the Compact.

SECTION II. INTERPRETATION

This Agreement is not intended to expand upon or alter any authority that the Compact has under the Sixth Amended and Restated Inter-Governmental Agreement of the Cape Light Compact" dated November 18, 2015 ("Inter-Governmental Agreement"), as amended from time to time, or any successor Inter-Governmental Agreement, nor expand upon or alter any authority that the County has under the Barnstable County Charter ("Charter"), St. 1988, ch. 163 or any successor Charter. This Agreement shall be interpreted to be in accordance with the Inter-Governmental Agreement, the Charter, the policies and procedures of the County, and other relevant provisions of the Massachusetts General Laws. If any terms of this Agreement shall be deemed in conflict with the Inter-Governmental Agreement, the Charter, the policies and procedures of the County, or any provisions of the General Laws, this Agreement shall yield.

If any provision of this Agreement, or the application of such provision to any person or circumstance, shall be held invalid, the remainder of this Agreement, or the application of such provision to persons or circumstances, other than those to which it is held invalid, shall not be affected.

SECTION III. MANAGEMENT OF COMPACT FUNDS; COUNTY AS FISCAL ADMINISTRATOR

A. The parties agree that the County will act as fiscal administrator for the Compact. The County may set up one or more accounts ("Accounts") as requested by the Compact to hold any funds which may be due or owing to the Compact or its members (whether in the nature of payment, grants, financial contributions, or otherwise), provided, however, that the County shall segregate those funds from all other funds that it controls or maintains and shall hold those funds solely for the benefit of the Compact. For these purposes, the County shall act only as fiscal administrator for the Compact, and shall not gain any right or title to such funds, other than

interest earned thereon. The Compact agrees that, whenever necessary to carry out the intent of this Agreement, it shall instruct third parties to direct their payments due and owing to the Compact to the Accounts. ~~Barnstable County's~~ The banking costs or fees for the maintenance of said Accounts, if any, shall be deducted from funds in the Accounts.

Comment [AAE1]: This is intended to apply solely to fees charged by the bank. To the extent Barnstable County incurs administrative costs in maintaining the Accounts, those should be reimbursed per Section IV (D).

B. At the direction of the Compact, the County will draw upon or otherwise expend any of the funds in any of the Accounts to make payments on bills, debts and obligations of the Compact, provided that sufficient funds are available in the Accounts. The County will not draw upon such funds without the consent of the Compact (other than to deduct costs or fees associated with the Accounts). ~~In no event will the County be required to provide funding to cover any shortfall of funds in the Accounts, unless such shortfall is due to mistake or negligence of the County in the maintenance of the Accounts.~~ The Compact will include an indemnification clause in all of its contracts for which the County is a party solely in its role as fiscal administrator for the Compact, pursuant to which the Compact's vendor will. ~~All service contracts executed by the Compact shall include an Indemnification Clause holding the County harmless from any and all claims unrelated to the County's direct fiscal management under such contract.~~ Additionally, the Compact agrees to procure ~~provide for~~ its own liability insurance, including, but not limited to, Public Officials Liability, Automobile Liability, Errors and Omissions, Corporate and Directors Liability, General Liability and other commercially reasonable coverages that both parties (upon consult with their respective insurance advisors) mutually agree is that the County's Insurer, MIAA or its successors, deem appropriate and reasonable to cover any potential exposure to the County now and continuing as a result of its fiscal administration services.

C. The County shall provide the Compact with an accounting of the funds in the Accounts on a periodic basis, and as reasonably requested by the Compact. All books and records of the County relating to the fiscal administration services provided to the Compact under this Agreement shall be available to the Compact for inspection. The County shall include a review of the Compact's Accounts in its annual audit, as determined by the County's auditor. Nothing herein shall limit the ability of the Compact to undertake independent annual audits. Solely as a courtesy and with a goal of increasing transparency and public awareness, ~~The~~ Compact agrees to present its that the Compact's annual operationsng budget shall be reviewed annually by to the County Commissioners for their review and comment on an annual basis at such time that the Compact's Governing Board reviews and approves the Compact's annual operating budget. The Compact will consider comments from the County Commissioners in good faith but the Compact will have no obligation to make any changes to its operating budget as a result of such comments. The parties acknowledge and agree that such annual review does not grant the County Commissioners any independent review or approval authority over the Compact's operating budget that is in addition to the County's role in reviewing the operating budget as a member of the Compact with a representative appointed to the Compact's Governing Board, and no further reviews will be by the County is required.

D. The Compact, or the County, may terminate the County's fiscal administration services under this Section III, upon six months' prior written notice and such termination shall take effect at the end of the calendar year. ~~The Compact will identify in its~~ If the Compact issues

a termination notice, then at least sixty (60) days in advance of the termination date identified in such notice, the Compact will provide written notice to the County of the entity that will assume fiscal administration for the Compact upon termination of the County's services and the County and the Compact will use commercially reasonable efforts to ensure the proper transition of funds from the Accounts. The Compact will also provide proper notice of its new fiscal administrator to all contractual counterparties for contracts in which the County is serving in such role. Upon termination of the fiscal administration services, the Compact and County will amend and restate this Agreement to reflect the remaining services to be provided by the County.

E. The Compact acknowledges that consistent with the County's obligation to fund the employees benefit plans stated herein that it is the parties obligation to fully fund said benefits. The County agrees therefore to create an OPEB trust fund and the Compact agrees to fully fund its share of that obligation based upon actuarial determinations by fully funding its contribution past and present. Additionally the Compact agrees to fund its pro rata share to an unemployment reserve set aside to be created by the County Finance Department. The Parties agree that pro rata contributions shall not be reduced except for unemployment claims and only with the approval of the County Commissioners. The Compact acknowledges that consistent with the County's obligation to fund the employees benefit plans in accordance with Section IV(D) of this Agreement, it is the Compact's obligation to fully fund said benefits. The County agrees to create an OPEB trust fund (under M.G.L. c. 32B, § 20) and the Compact agrees to provide the following annual funding of its OPEB obligation, net of the reimbursement to the County for actual Compact retiree health insurance costs, which will be based on a certified actuarial valuation that specifically provides the results for the Compact:

1. Normal cost – 100%
2. Amortization of the unfunded actuarial accrued liability – 30 years beginning July 1, 2016

Additionally, the Compact agrees to fund a unemployment reserve account to be created by the County Finance Department. Said unemployment reserve fund shall not exceed the maximum amount of \$10,000 or, the Compact's previous average three-year trend in annual unemployment claims, whichever is greater. The Compact's unemployment reserve fund shall only be used for Compact related unemployment claims. The Parties agree that the Compact's contributions shall not be reduced except for unemployment claims and only with the approval of the County Commissioners.

SECTION IV. ADDITIONAL SERVICES TO BE PROVIDED BY THE COUNTY

A. The parties agree to the following process for the procurement of goods and services related to the Cape Light Compact.

1. Upon request of the Compact, the County will provide administrative services necessary for procuring goods and services on behalf of the Compact. The County, in its sole discretion, may designate one or more of its employees to serve as staff for the Compact and to provide the services set forth in this Agreement.

The parties agree that such purchase of goods and services for the Compact shall comply with the County's procurement process and applicable procurement laws.

2. The County shall have the authority to sign contracts on behalf of the Compact solely as fiscal administrator. The Compact's Administrator will submit contracts and amendments to contracts to the County for execution as the Compact's fiscal agent after review and a determination that such contracts and/or amendments are consistent with the Compact's current budget approved by the Compact's Governing Board ("Governing Board"), and/or the Massachusetts Department of Public Utilities. The Governing Board shall thereafter ratify the Treasurer's actions in accordance with the policy adopted by the Governing Board on March 11, 2015 (or any subsequent policy as may be duly adopted by the Governing Board from time to time). The parties acknowledge and agree that the County shall assume no liability to the Compact or any third party under any contract it executes solely as fiscal agent for the Compact.
3. After being so directed by the Compact, the County shall prepare solicitation of quotes, Requests for Proposals ("RFP") or Invitations for Bids ("IFB") for goods and services on behalf of the Compact.

B. Nothing in this section shall be interpreted to limit the ability of the Compact or any Compact member to sign contracts in its name or to conduct its own procurements.

C. Nothing in this Agreement shall be interpreted to limit the fiduciary responsibility and authority of the County Treasurer under Massachusetts General Laws, or local laws and ordinances.

D. In connection with the County's role as fiscal administrator to the Compact, the County will provide the Compact with office space, payroll management, administrative and information technology support and will include Compact employees in its insurance, retirement and health benefit policies. The Compact will reimburse the County at a minimum on an annual basis for the County's reasonable and documented costs and expenses associated with the provision of such services to the Compact. In furtherance of the foregoing, the County and the Compact may enter into separate agreements to document the services provided by the County and the timing and terms of the reimbursement provided by the Compact. For purposes of this Section IV (D), while Compact employees are on the County payroll, Compact staff will generally be subject to County personnel policies and rules.

SECTION V. RESPONSIBILITIES OF THE COMPACT

1. The Governing Board shall ratify all actions of the Compact Treasurer requesting the County to execute contracts on the Compact's behalf, or take such other contract authorization or ratification actions that it deems desirable, necessary or appropriate.

2. The Compact authorizes the County to prepare solicitation of quotes, or RFPs or IFBs for goods and services, upon request. The Compact agrees as part of this process to appoint a review or advisory committee where appropriate. The Compact shall approve all specifications for RFPs and bid documents. The Compact shall authorize the County to award IFBs and RFPs on its behalf, subject to the conditions within this Agreement.

SECTION VI. NOTICES

All notices and other communications required by this Agreement or which are necessary in carrying out the terms of this Agreement shall be made:

To the County:

Barnstable County Commissioners
Attention: Chair P.O. Box 427
Superior Courthouse
Barnstable, MA 02630

To the Compact:

Cape Light Compact
Attention: Administrator
P.O. Box 427
~~Superior Courthouse~~ Open Cape Building
Barnstable, MA 02630

Either party may specify a different address by sending notice as provided in this section.

SECTION VII. TERM OF AGREEMENT, TERMINATION AND MODIFICATION

A. =

B.— This Agreement shall be effective as of the date that the last of the of the parties signs below, and shall continue in effect unless notice of termination is given by either party. A notice of termination shall be in writing, delivered to the other party pursuant to the "Notices" provisions above, and shall only take effect upon the end of a calendar year upon six months prior notice.

CB. This Agreement may only be amended or modified by a written instrument signed by both parties.

SECTION VIII. MISCELLANEOUS

A. This Agreement shall be deemed the collective work-product of the parties hereto, and shall not be construed against either party by reason thereof.

B. This Agreement constitutes the entire agreement between the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings between the parties relating to the subject matter hereof.

C. From time to time and at any time at and after the execution of this Agreement, each party shall execute, acknowledge and deliver contracts, deeds, assignments, conveyances, other instruments and assurances, reasonably requested by the other and shall take any other action consistent with the terms of this Agreement that may be reasonably requested by the other party for the purpose of effecting or confirming any of the activities, purposes or transactions contemplated by this Agreement.

D. This Agreement is entered into under the authority set forth in G.L. c. 40, §4A. The County shall keep accurate and comprehensive records of services performed, costs incurred, and reimbursements and contributions received and shall provide the Compact with copies of the County's annual audit that includes a review of the Accounts. The County shall comply with all other applicable provisions of G.L. c. 40, §4A.

E. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute one and the same instrument. The parties agree that a scanned or electronically reproduced copy or image of this Agreement bearing the signatures of the parties hereto shall be deemed an original and may be introduced or submitted in any action or proceeding as competent evidence of the execution, terms and existence of this Agreement notwithstanding the failure or inability to produce or tender an original, executed counterpart of this Agreement and without the requirement that the unavailability of such original, executed counterpart of this Agreement.

Signed this _____ day of _____, 2016,

By, Barnstable County Commissioners:

Mary Pat Flynn
Chair

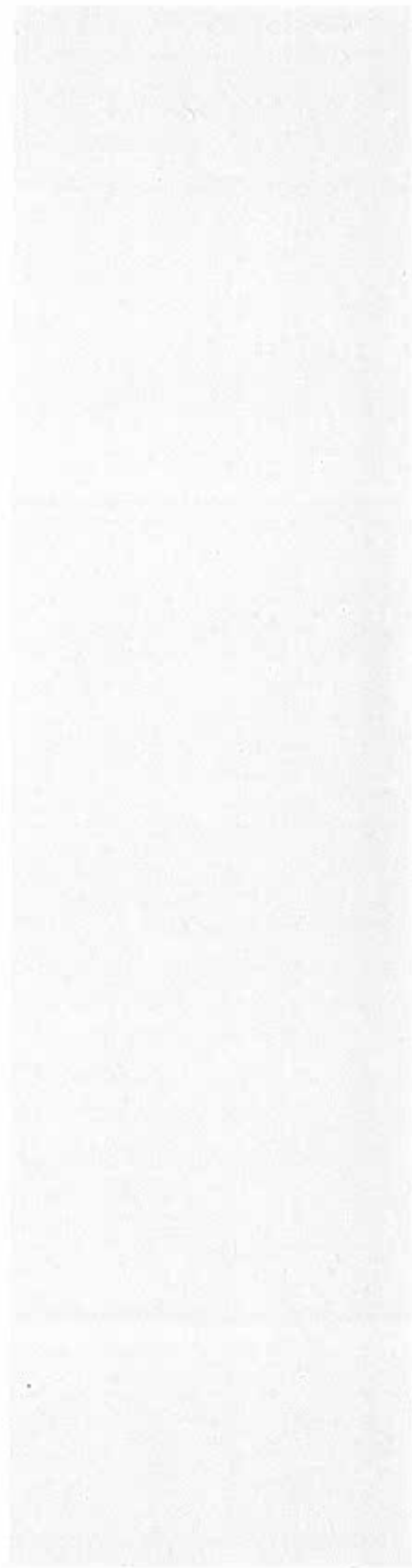
Sheila Lyons
Vice Chair

Leo Cakounes
Commissioner

Signed this _____ day of _____, 2016, for the Cape Light Compact.

(NAME)

(TITLE)



2013-2015 Term Report Final Results

Cape Light Compact Governing Board Meeting

September 14, 2016

Meredith Miller

**Cape Light
Compact**



Working together toward a smarter energy future

Introduction



- Term Report is a MA DPU requirement every 3 years to report results for the full 3 years of a plan period.
- 2013-2015 is the first Term Report; previously, 3rd year results were reported in an Annual Report like those for the 1st and 2nd year plan results.
- The 2013-2015 Term Report was filed on August 1, 2016
- CLC results and how compare to Statewide results as well as other individual PAs

Summary of 2013-2015 Results



Cape Light Compact 2013-2015 Summary Results					
	Budget	Benefits	Annual Savings (MWh)	Lifetime Savings (MWh)	BCR
Evaluated					
Residential	\$ 57,880,971	\$ 241,495,863	53,536	564,831	3.18
Low-Income	\$ 9,067,396	\$ 29,505,543	6,364	61,347	3.33
C&I	\$ 33,794,191	\$ 127,340,250	71,794	781,175	3.30
Total	\$ 100,742,558	\$ 398,341,656	131,693	1,407,353	3.23
Compared to Original Plan Goal					
% of Goal	121%	109%	111%	119%	n/a

Note:

- DPU approved CLC exceeding original budget via MTM process.
- While BCR is not a plan goal, the 2013-2015 planned BCR was 3.99

Other Highlights Over the Term

Cape Light
Compact

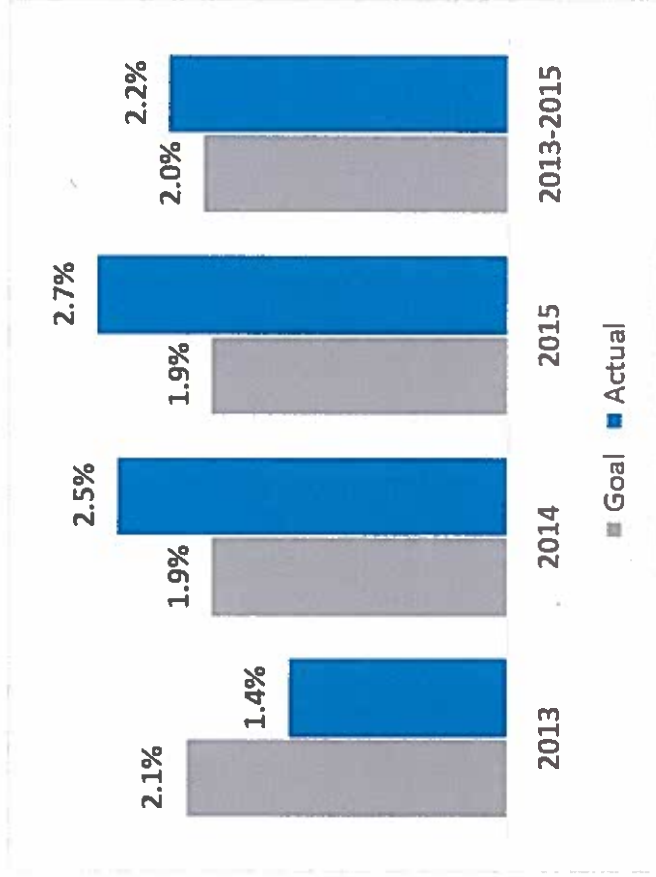


- Completion of:
 - Our 3 year LED Streetlight Initiative
 - Our potential study used as the basis for our next 3 year plan
 - Our first Combined Heat and Power project since the start of the statewide plans
- Development and filing of our current 3 year plan with program updates and our most ambitious goals yet
- Participation of the largest C&I New Construction project in our territory to date – Monomoy Reg. HS
- More NEED and National Youth Awards

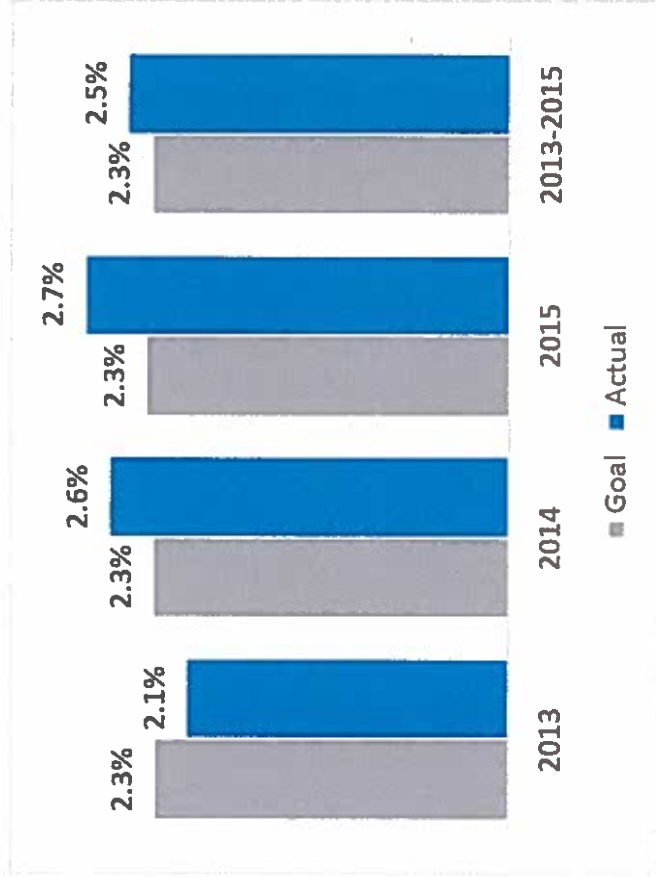
Annual Savings as % of kWh Sales



Cape Light Compact



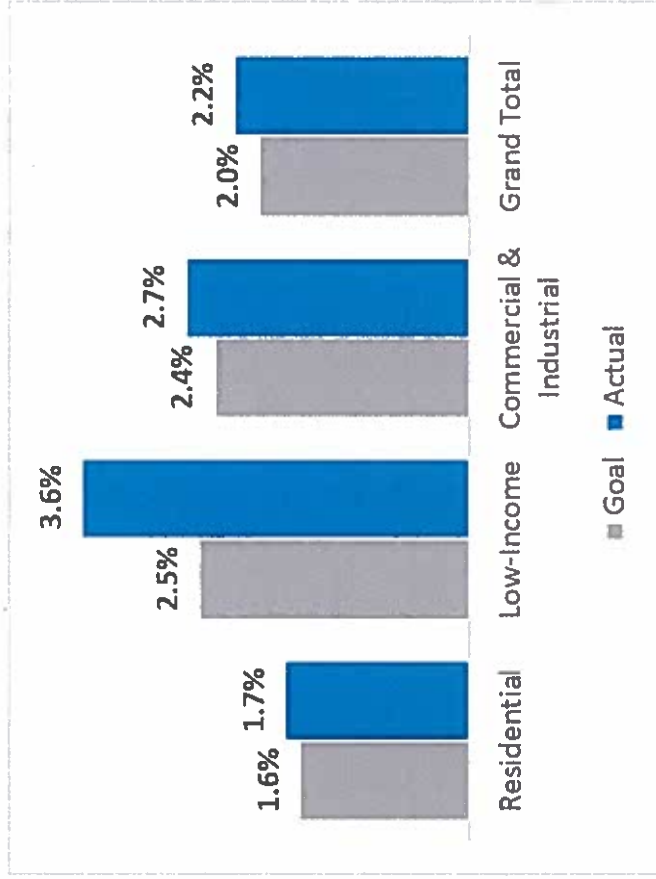
Statewide Total



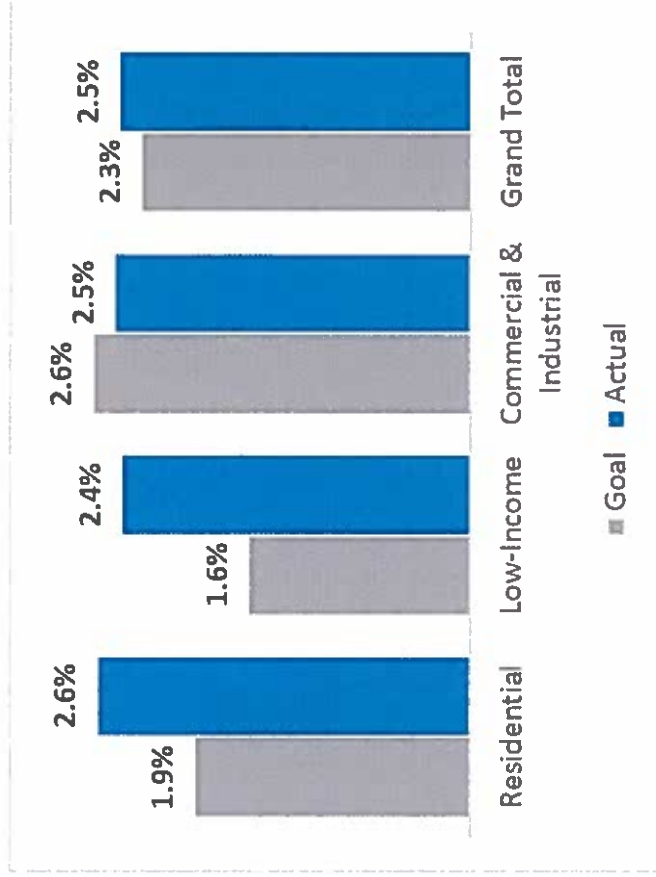
Savings as a % of Sales by Sector



Cape Light Compact



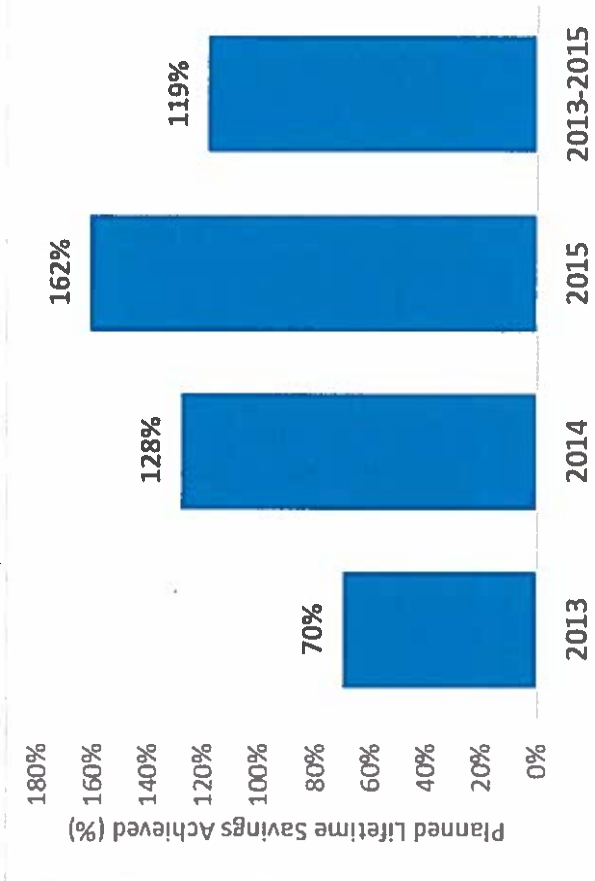
Statewide Total



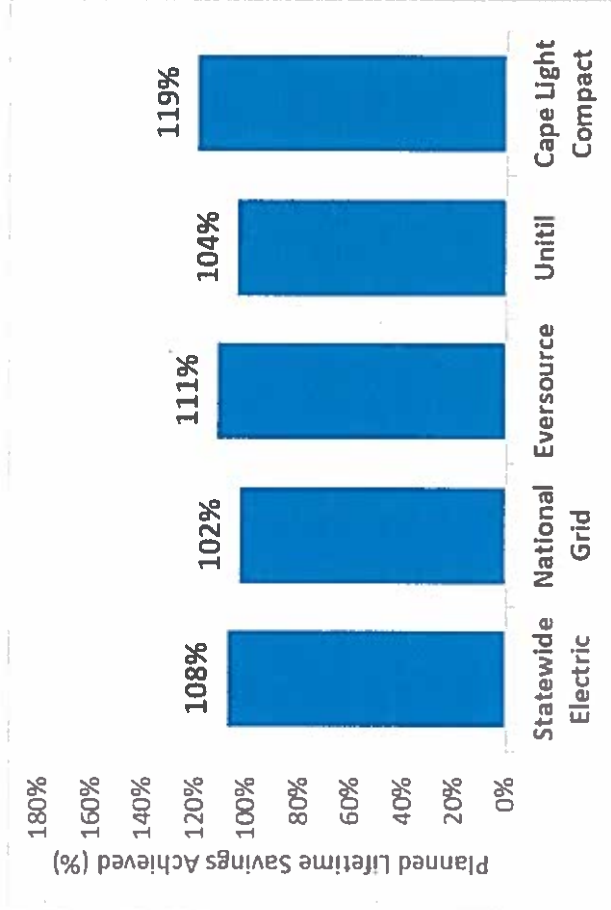
Lifetime Savings % of Goal Achieved



Cape Light Compact



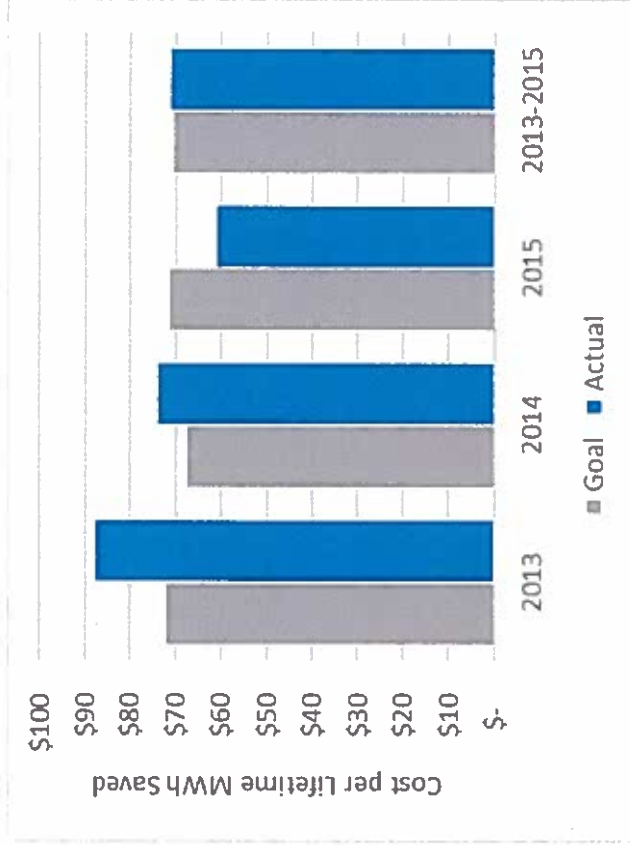
Statewide Total



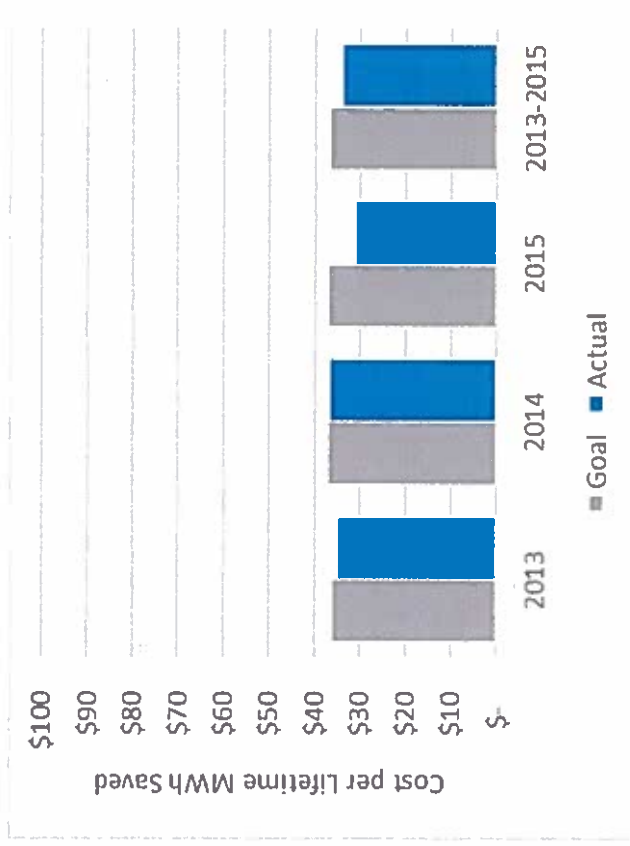
Cost to Achieve - \$/Lifetime MWh



Cape Light Compact



Statewide Total



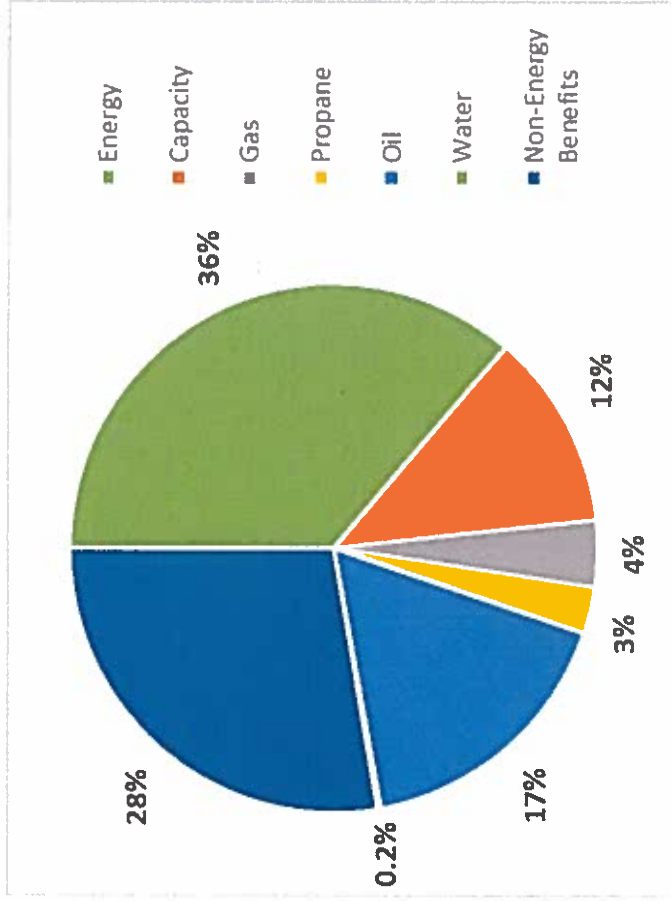
CLC costs to achieve are higher than the statewide average because:

- CLC offers enhanced customer incentives for weatherization, government customers, and in general compared to other PAs.
- CLC's programs are fuel blind, so other fuel savings achieved not captured in above analysis.
- CLC has fewer large C&I customers, which tend to have the cheapest savings.
- Other PAs have ability to rely on existing infrastructure for the administration of their programs

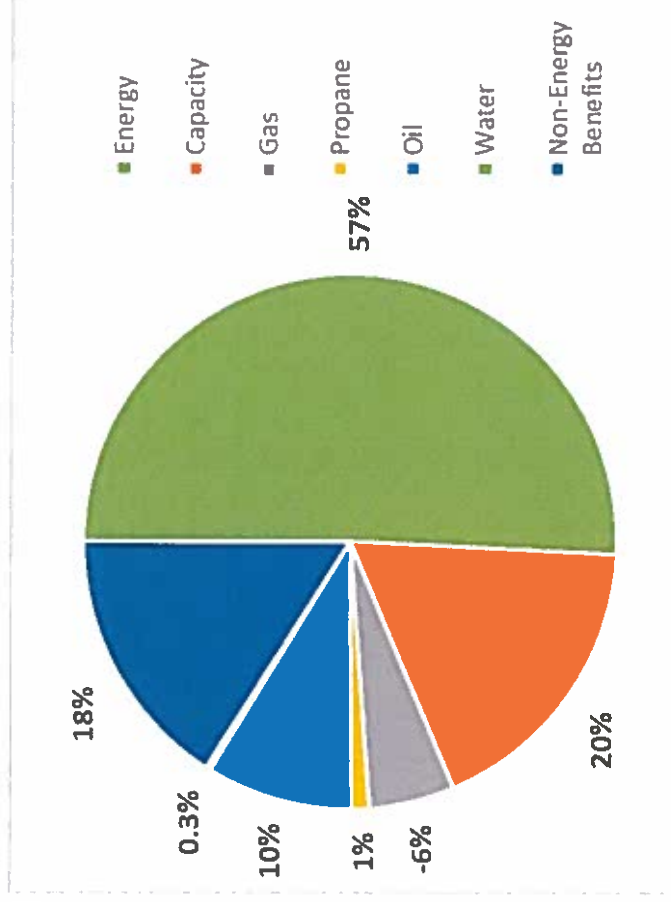
Range of Benefits



Cape Light Compact



Statewide Total



Takeaways

- Compact's Programs are highly cost-effective
- Compact responded to ambitious plan goals with sustained strong performance while maintaining costs within planned levels
- Compact continuing efforts to respond to ambitious goals forward with new enhancements and initiatives
- Compact's unique service territory and mission drive the differences in our results
- The complete 2013-2015 Term Report is on our website at <http://www.capelightcompact.org/reports/>, under "Annual Reports on Energy Efficiency Activities."



VENDOR NAME	AMOUNT OF CONTRACT	AMOUNT OF AMENDMENT	TERM	PURPOSE	COMPETITIVELY PROCURED	P. COCOLIS	COMMISSIONERS APPROVED
Synapse	\$1,151,280.00		7/1/2016 - 12/31/2018	Technical support for EE and FCM	YES/NO YES	APPROVED/DENIED approved 7/21/2016	8/3/2016

FOR 2017 12

	ORIGINAL APPROP	REVISED BUDGET	YTD EXPENDED	MTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	% USED

120 CAPE LIGHT COMPACT							

8074 CAPE LIGHT COMPACT OPERTG FUND							

8074 5100		CLC OPERTG FD-SALARIES					
	0.00	194,500.00	38,010.26	0.00	0.00	156,489.74	19.5%
8074 5199		CLC OPERTG FD-SALARY RESERVE					
	0.00	6,000.00	0.00	0.00	0.00	6,000.00	.0%
8074 5213		CLC OPERTG FD-TELEPHONES					
	0.00	3,000.00	42.55	0.00	357.45	2,600.00	13.3%
8074 5220		CLC OPERTG FD-UTILITIES					
	0.00	5,200.00	50.85	0.00	-50.85	5,200.00	.0%
8074 5233		CLC OPERTG FD-AUDIT/ACCTG SVCS					
	0.00	40,000.00	6,180.00	0.00	0.00	33,820.00	15.5%
8074 5235		CLC OPERTG FD-LEGAL SERVICES					
	0.00	232,019.00	35,504.47	0.00	-100,000.00	296,514.53	-27.8%
8074 5238		CLC OPERTG FD-IT COUNTY SUPPRT					
	0.00	8,750.00	0.00	0.00	0.00	8,750.00	.0%
8074 5239		CLC OPERTG FD-CONTRACTUAL					
	0.00	65,000.00	13,741.79	0.00	-5,364.85	56,623.06	12.9%
8074 5244		CLC OPERATG FD-PROFESS DEVELOP					
	0.00	5,000.00	0.00	0.00	0.00	5,000.00	.0%
8074 5270		CLC OPERATG FD-CUSTO/MAIN-CNTY					
	0.00	9,789.00	0.00	0.00	0.00	9,789.00	.0%
8074 5281		CLC OPERTG FD-OUTSTATE TRAVEL					
	0.00	6,000.00	953.57	0.00	-953.57	6,000.00	.0%
8074 5282		CLC OPERTG FD-IN STATE TRAVEL					
	0.00	16,000.00	97.86	0.00	-53.57	15,955.71	.3%
8074 5291		CLC OPERTG FD-ADVERTISING					
	0.00	45,100.00	1,911.00	0.00	-735.00	43,924.00	2.6%
8074 5293		CLC OPER-OUTRCH/MARKETG CONTRC					
	0.00	36,000.00	1,540.97	0.00	-1,875.00	36,334.03	-.9%
8074 5294		CLC OPERTG FD-FREIGHT/SHIPPG					
	0.00	250.00	0.00	0.00	0.00	250.00	.0%
8074 5295		CLC OPERTG FD-PRINTG/COPYG					
	0.00	12,000.00	908.96	0.00	546.95	10,544.09	12.1%
8074 5320		CLC OPERTG FD-FOOD SUPPLIES					
	0.00	500.00	363.43	0.00	0.00	136.57	72.7%
8074 5361		CLC OPERTG FD-POSTAGE					
	0.00	13,852.00	1,427.08	0.00	734.09	11,690.83	15.6%
8074 5399		CLC OPERTG FD-SUPPLIES					
	0.00	2,000.00	43.50	0.00	-5.86	1,962.36	1.9%

FOR 2017 12

	ORIGINAL APPROP	REVISED BUDGET	YTD EXPENDED	MTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	% USED
8074 5421							
		CLC OPERTG FD-SPONSORSHIPS					
	0.00	30,000.00	6,500.00	0.00	0.00	23,500.00	21.7%
8074 5429							
		CLC OPERTG FD-SUBSCRIPTIONS					
	0.00	18,000.00	0.00	0.00	0.00	18,000.00	.0%
8074 5433							
		CL OPERTG FD-PUBLIC OFFICL INS					
	0.00	10,000.00	0.00	0.00	0.00	10,000.00	.0%
8074 5462							
		CLC OPERTG FD-BUILDING RENTAL					
	0.00	21,174.23	0.00	0.00	0.00	21,174.23	.0%
8074 5463							
		CLC OPERTG FD-EQUIP RENTAL					
	0.00	10,000.00	0.00	0.00	0.00	10,000.00	.0%
8074 5499							
		CLC OPERTG FD-BANK FEES					
	0.00	500.00	0.00	0.00	0.00	500.00	.0%
8074 5799							
		CLC OPERATING FD-UNPAID BILLS					
	0.00	1,000.00	0.00	0.00	0.00	1,000.00	.0%
8074 5981							
		CLC OPERTG FD-RETIREMENT					
	0.00	55,000.00	40,941.86	0.00	0.00	14,058.14	74.4%
8074 5983							
		CLC OPERTG FD-GRP INSUR					
	0.00	36,913.00	2,245.12	0.00	0.00	34,667.88	6.1%
8074 5984							
		CLC OPERTG FD-MEDICARE					
	0.00	2,000.00	535.59	0.00	0.00	1,464.41	26.8%
8074 5989							
		CLC OPERTG FD-MISC FRINGES					
	0.00	1,800.00	0.00	0.00	0.00	1,800.00	.0%
8074 5990							
		CLC OPERTG FD-FINANCE SUPPORT					
	0.00	5,000.00	0.00	0.00	0.00	5,000.00	.0%
		TOTAL EXPENSES					
	0.00	892,347.23	150,998.86	0.00	-107,400.21	848,748.58	
		GRAND TOTAL					
	0.00	892,347.23	150,998.86	0.00	-107,400.21	848,748.58	4.9%

** END OF REPORT - Generated by Maggie Downey **

2016 Budgeted (Based on 2016 Planned)

Table with columns: Program, PPRA, Marketing, Incentives, PA Costs, STAT, ERV, TOYR 16, TOYR 15. Rows include programs like A1 - Residential Whole House, A1B - Residential Multi-Family Renovation, etc.

2016 Actuals through July 2016

Table with columns: Program, PPRA, Marketing, Incentives, PA Costs, STAT, ERV, TOYR 16, TOYR 15. Rows include programs like A1 - Residential Whole House, A1B - Residential Multi-Family Renovation, etc.

as Percent

Summary table with columns: PA Costs, TOYR 16, TOYR 15. Rows include A1, A1B, A1C, A1D, A1E, A1F, A1G, A1H, A1I, A1J, A1K, A1L, A1M, A1N, A1O, A1P, A1Q, A1R, A1S, A1T, A1U, A1V, A1W, A1X, A1Y, A1Z, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100.



Town of Orleans

19 School Road
Orleans, MA 02653
508-240-3700

September 13, 2016

Martin Culick
505 S. Orleans Rd
Orleans, MA 02653

Dear Martin,

We, the Board of Selectmen of Orleans, by virtue of the authority vested in us by the laws of the Commonwealth of Massachusetts and the Orleans Home Rule Charter, do hereby appoint you to the Cape Light Compact as Alternate Representative with a term expiration date of 6/30/2019.

Given at Orleans this date 9/7/2016

Sims McGrath Jr, Chairman
David M. Dunford, Vice Chairman
Mark Mathison, Clerk
Alan McClennen Jr, Selectman

Please bring this letter to the Town Clerk's office between 8:30 and 4:30 Monday through Friday to be sworn in to this position, prior to voting on any board or committee business.

Thank you for your service to our Town. Your interest and efforts are greatly appreciated.

John F. Kelly

Town Administrator

Date Recorded: September 14, 2016 A.D.

Attest:

Key Daring



Don't miss this local meeting about your future.

Dear Electric Consumer:

There hasn't been much in the news about it, but Eversource has a \$496 million plan before the Massachusetts Department of Public Utilities (DPU) that will affect each of us. Remember how much things have changed with the advent of smartphones? A similar revolution in our electric grid is before us now; the Eversource Grid Modernization Plan marks the largest change in electric infrastructure in more than a century. The question is whether the plan is of greater benefit to Eversource, or moves the Cape and Vineyard toward an electric future known as the "Smart Grid" now being created in other states.

What the DPU decides will affect what we pay and opportunities for development of energy efficiency, renewable energy generation, energy storage, and greater reliability and stability. It will affect us individually, as well as our economy, our security, and the environment.

Bert Jackson, president of the Cape Cod Technology Council, has said, "The impact of what we're talking about is generational. This is something that is going to affect what's happening in our community, not just for the next five or ten years, but for our children and grandchildren." Cape Light Compact Administrator Maggie Downey has noted, "We will all be paying for Grid Modernization, and it is important to have the community actively engaged in identifying what we want to see, and how much we want to pay."

This is an issue of basic local control and the choices we will face. The Cape Cod Technology Council and the Cape Light Compact would like to invite you to attend one of four regional public meetings to learn more and take part in the discussion. The purpose of these meetings is to gather your input on how you would like to see a Smart Grid develop on Cape Cod and Martha's Vineyard. We will be preparing a survey to solicit your input that will help shape the Cape Light Compact's involvement in the regulatory review of the Eversource Grid Modernization Plan, currently before the DPU, (docket DPU 15-122).

Mid-Cape

Tuesday, September 20 at 7:00 pm
Dennis-Yarmouth High School, Room 114

Upper Cape

Thursday, September 22 at 7:00 pm
Mashpee Public Library, Event Room

Lower Cape

Saturday, September 24 at 2:00 pm
Wellfleet Public Library, Lower Level

Martha's Vineyard

Monday, October 3 at 3:00 pm
West Tisbury Public Library

To see a brief video and additional information, please visit the Cape Light Compact webpage at: www.capelightcompact.org/smartgrid.

We hope you can join us.

Maggie Downey, Administrator, Cape Light Compact
Bert Jackson, President, Cape Cod Technology Council

You are cordially invited to

HABITAT FOR HUMANITY'S
2016 ANNUAL MEETING &
VOLUNTEER APPRECIATION

Awards, Celebration of Accomplishments, and Dinner!

Tuesday, September 20, 2016

4:00pm – Meeting starts; Dinner served at 5:30

St. Pius X Life Center

5 Barbara Street, (off Station Avenue) Yarmouth

BBQ generously provided by Shepley Wood Products

Please bring an appetizer, side, or salad for the potluck

Let us know you are coming!

RSVP by September 14

508-362-3559 or office@habitatcapecod.org

FRESH POND ROAD
SESAME STREET SOUTH ORLEANS ROAD
OLD BARNSTABLE ROAD
Nauset Road
TIMBERLAND DRIVE
Beach Plum Road

100 HOMES

Gomes Way
Highpoint Road
Hornbeam Lane
James Burr Road
Lakewood Drive
Long Pond Road
GLENWOOD AVE
CEDARDALE ROAD
Yellow FOX Swan
BRICK HILL Lake
ROAD ROAD

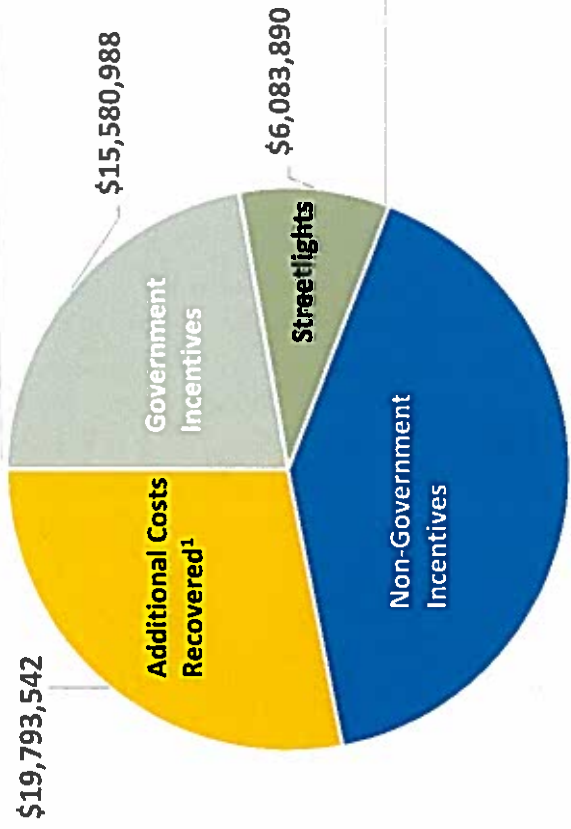
DEEP WOOD DRIVE
SANDY MEADOW WAY
OLD STAGE ROAD
RABBIT RUN
COUNTY ROAD
Bevan Way
GINGER LANE
COTUIT ROAD
TANTLER CIRCLE
DANVERS WAY
FRITZ'S WAY

Alward Flintlock
Avenue
Dixon Drive
ACORN ROAD
CROSS STREET
Bell Road
Asher's Path
SIPPEWISSETT ROAD
PARK PLACE
Firehouse Road
Newtown Road
Nickerson Road
Cross Cart Way
Spring Valley Road
OAK STREET



Municipality	Date of Grid Mod Update	First Name	Last Name	Title	Address	Town	Zip
Town of Aquinnah	October 4th: 6:30PM	Mr. Spencer	Booker	Chair	65 State Road	Aquinnah	2535
Town of Barnstable	September 29: 6:30 PM	Ms. Jessica	Rapp Grassetti	President	367 Main Street	Hyannis	2601
Town of Bourne	October 18: 7:00 PM	Mr. Stephen F	Mealy	Chair	24 Perry Avenue	Buzzards Bay	2532
Town of Brewster	waiting for date	Mr. Ben	DeRuyter	Chair	2198 Main Street	Brewster	2631
Town of Chatham		Mr. Jeffrey	Dykens	Chair	549 Main Street	Chatham	2633
Town of Chilmark	October 4th: 5:30PM	Mr. Jonathan	Mayhew	Chair	P.O. Box 119	Chilmark	2535
Town of Dennis		Mr. Paul	McCormick	Chair	P.O. Box 2060	S. Dennis	2660
Town of Eastham	September 19: 5:30 PM	Ms. Elizabeth	Gawron	Chair	2500 State Highway	Eastham	2642
Town of Edgartown		Mr. Michael	Donaroma	Chair	P.O. Box 5158	Edgartown	2539
Town of Falmouth		Mr. Doug	Jones	Chair	59 Town Hall Square	Falmouth	2540
Town of Harwich		Mr. Peter	Hughes	Chair	P.O. Box 993	Harwich	2645
Town of Mashpee	September 26: 7:00 PM	Mr. John J	Calahane	Chair	16 Great Neck Road	Mashpee	2649
Town of Oak Bluffs		Mr. Michael	Santoro	Chair	P.O. Box 1327	Oak Bluffs	2557
Town of Orleans	October 5th: 7:00 PM	Mr. Alan	McClennen	Chair	19 School Road	Orleans	2653
Town of Provincetown	October 24th: 6:30 PM	Mr. Raphael	Richter	Chair	260 Commercial Street	Provincetown	2657
Town of Sandwich	October 13th: 7:00PM	Mr. Frank	Pannorfi	Chair	130 Main Street	Sandwich	2653
Town of Tisbury	September 6th: 6:00 PM	Mr. Tristan	Israel	Chair	P.O. Box 1239	Vineyard Haven	2568
Town of Truro	October 11th: 7:00 PM	Ms. Janet	Worthington	Chair	P.O. Box 2030	Truro	2666
Town of Wellfleet		Mr. Paul	Pilcher	Chair	300 Main Street	Wellfleet	2667
Town of West Tisbury	September 28: 5:00 PM	Ms. Cynthia	Mitchell	Chair	P.O. Box 278	W. Tisbury	2575
Town of Yarmouth	declined	Mr. James	Quirk	Chair	1146 Route 28	S. Yarmouth	2664
Barnstable County	n/a	Ms. Mary Pat	Flynn	Chair	P.O. Box 427	Barnstable	2630
Dukes County	n/a	Mr. Leonard	Jason, Jr.	Chair	P.O. Box 190	Edgartown	2539

2001- May 2016 C&I Expenditures

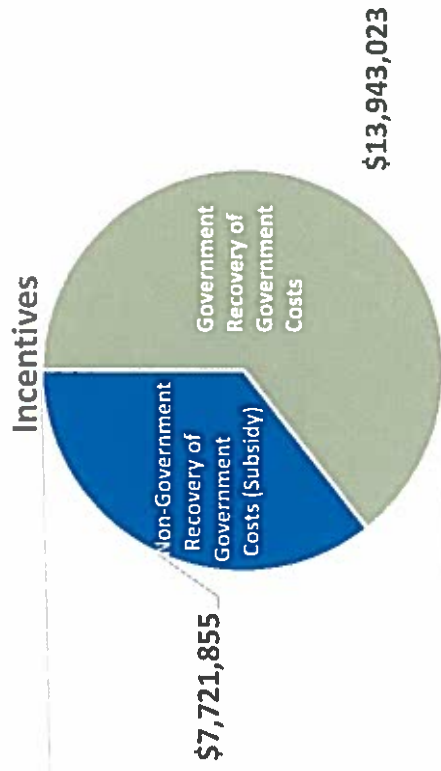


\$28,903,278

Total C&I EE Expenditures = \$70,361,698

1. In the chart above, the additional costs recovered through the EE charge include: (1) marketing, overhead, evaluation, and implementation costs; (2) true-up for planned to actual costs and revenues from previous years; and (3) a subsidy to low-income customers.

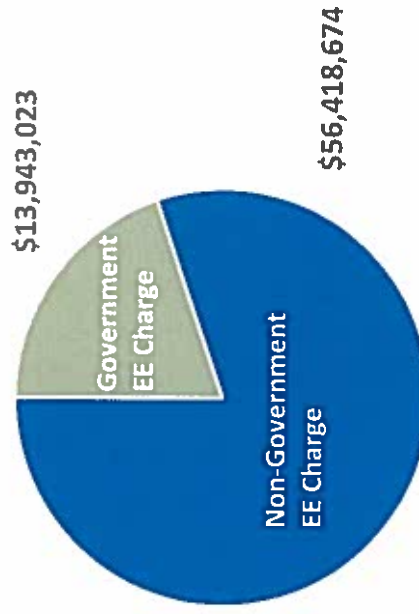
2001- May 2016 Recovery of Government Incentives



Total Government Incentives = \$21,664,878

The chart above represents how the C&I incentives spent on Government customers are collected from both Government Customers and Non-Government Customers. C&I Non-Government customers have historically subsidized Government customers' incentives.

2001- May 2016 C&I Cost Recovery from All C&I Customers



Total C&I Cost Recovery = \$70,361,698

Cape Light Compact Energy Education Program

**Be Energy Efficient Smart
BEES
2016**

**Cape Light
Compact**



Working Together Toward A Smarter Energy Future

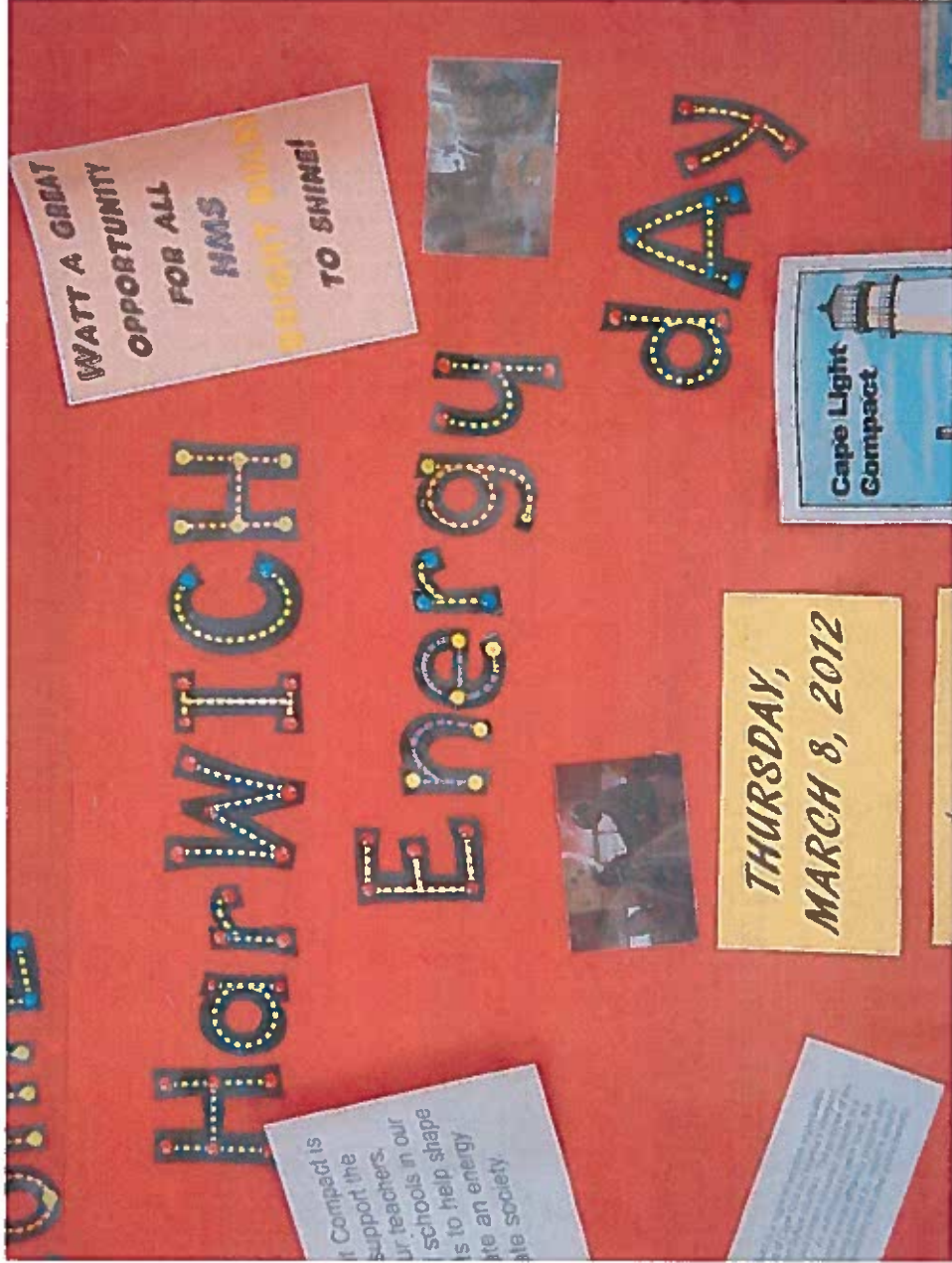
Be Energy Efficient Smart with BEES

Cape Light
Compact



- The Cape Light Compact launched its new education initiative in 2016 to help build energy use awareness among our youth and our community.
- Students learn about energy efficiency at school and then take their knowledge home with their own energy BEES kit to implement energy saving measures.
- Energy savings are documented via an on-line survey through the Compact's website.

Monomoy Energy Day



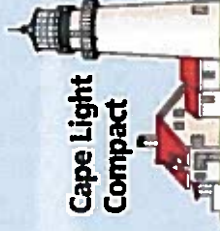
BEES 2016



- Professional development workshops were held for participating teachers in December, 2015.
- Building science materials were given to each school to use in their identified grade level classrooms.
- All materials and lessons are NGSS aligned and are STEM based in content and delivery.
- All workshops, materials and kits are free to Cape and Vineyard schools through the Compact's Energy Education Program.

Participating Schools 2015-16

Cape Light
Compact



- Wellfleet Elementary
- Eastham Elementary
- Eddy School (Brewster)
- Orleans Elementary
- Monomoy Middle School
- Monomoy High School
- Mattacheese Middle School
- Sandwich STEM Academy
- Mashpee High School

MV BEES Teacher Training

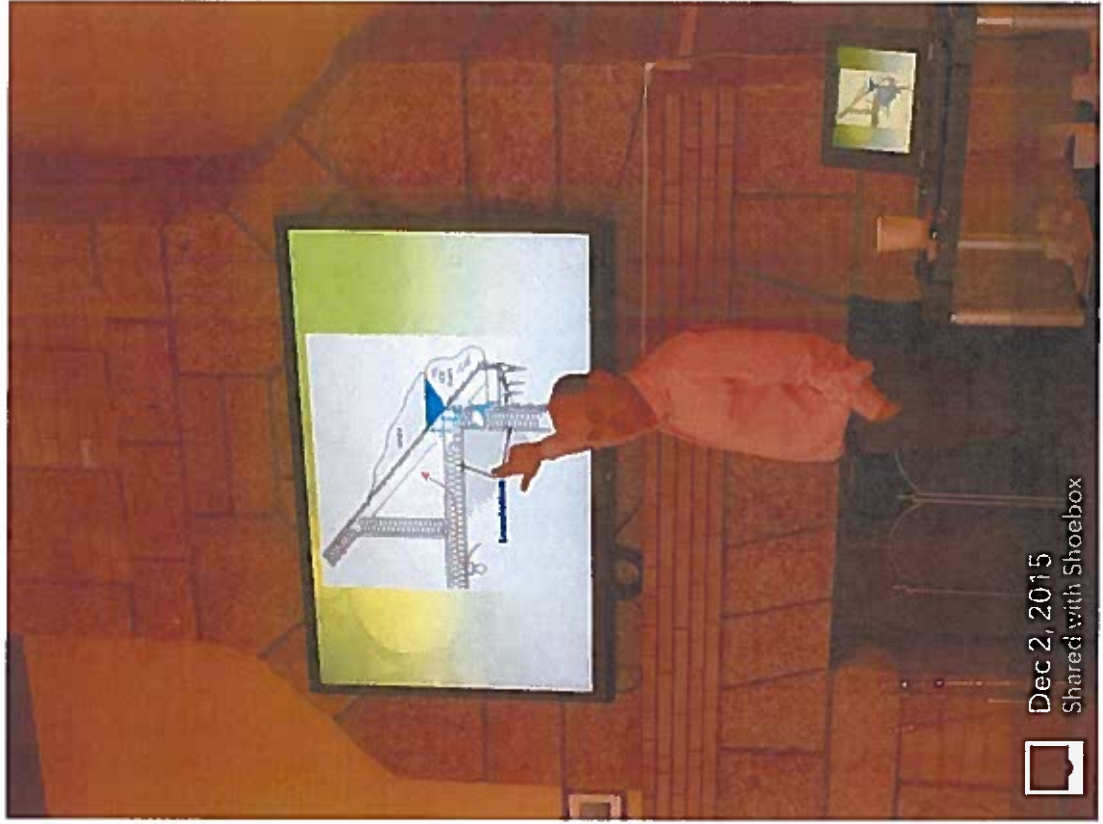


Cape Light
Compact



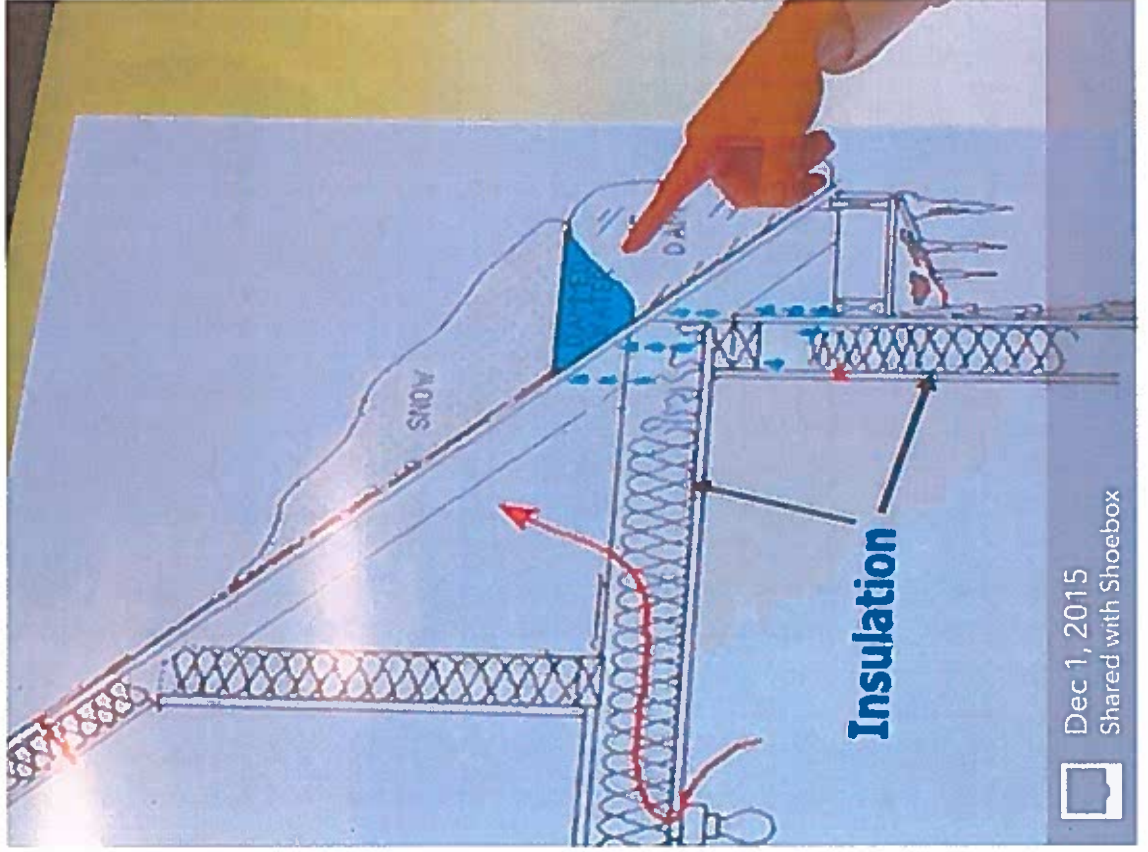
Dec 4, 2015
Shared with Shoebox

BEES Teacher Training



Dec 2, 2015
Shared with Shoebox

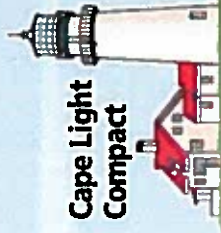
Lessons on healthy homes



EE = Healthy Homes




EE Building Science




Cape Light
Compact



 Dec 2, 2015
Shared with Shoebox

Energy House

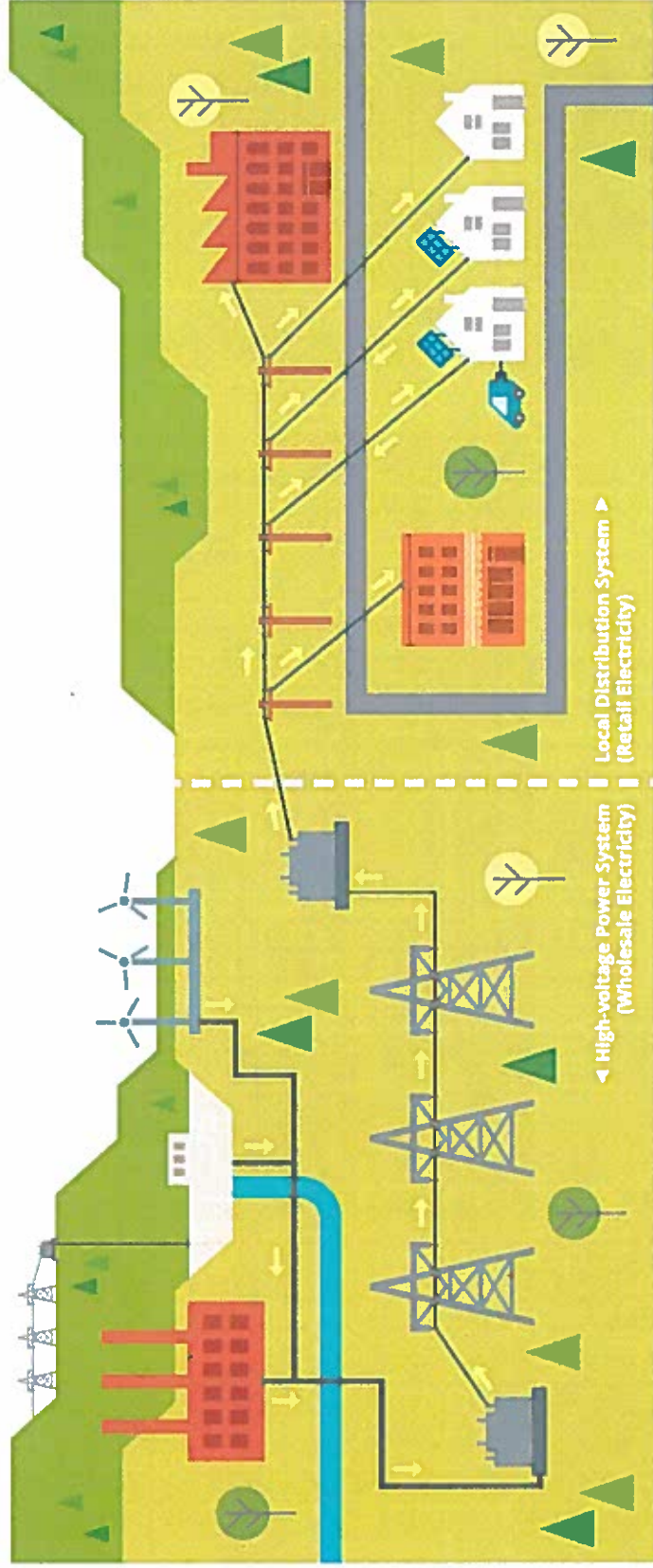


 Dec 4, 2015
Shared with Shoebox

Electric power system



How electricity is produced, transported, and delivered to consumers



Classroom kit



Student kit

Cape Light
Compact

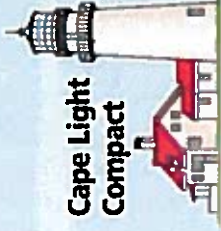


Savings



- Savings per kit are for 3 LED lightbulbs and 2 low flow faucet aerators
- Electric homes have kWh savings for lightbulbs and low flow aerators
- Oil and Propane homes have electric savings for lightbulbs and mbtu savings for faucet aerators

Savings




Measure	Quantity # of kits installed	Measure Life # of years we can claim savings	Total Cost	Gross Annual MWh savings	Gross Annual Fuel Savings MBTU	Gross Annual Water Savings	Benefit Cost Ratio
						Gallons per kit	Cost effectiveness per kit
Electric Heated Homes	61	10	\$25.20	7.408		20,252	8.0
Gas Heated Homes	297	10	\$25.20	21.518	237.6	98,604	8.4
Oil Heated Homes	116	10	\$25.20	8.404	110.2	38,512	12.6
Other (Propane, wood, geothermal)	61	10	\$25.20	4.419	48.8	20,252	11.2

Survey



1. School: _____ 2. Teacher: _____ 3. Kit #: _____

Be Energy Efficient Smart Kit Installation Survey



The choices we make about the way we use energy have both environmental and economic impacts. There are many things we can do to use less energy and use it wisely. The Be Energy Efficient Smart (BEES) kit is a great way to start.

Follow the instructions in this survey and in the kit. **Return your completed survey to your classroom teacher.** Your teacher may have you input your survey on-line to help with compiling your class's results to determine how much energy your classroom has saved!

LIGHTING

We can save money and energy by switching out old inefficient light bulbs for LED lightbulbs (light emitting diodes). These use a solid-state technology to produce light. When we look at lighting, keep in mind these terms:

Lumens- a measure of the amount of light a bulb produces
Watts- a measure of the amount of electricity a bulb uses
Life- the average length of time a bulb is expected to operate in hours

WITH AN ADULT, change out 3 of your most inefficient light bulbs in your home with the LED lightbulbs in your kit.

4. How many of the LEDs from the kit did you install?

- One
- Two
- Three
- None

5. If you have not yet installed all 3 LEDs, how many of the LEDs do you plan to install?

- One
- Two
- Three
- None (briefly explain why you did not install the LEDs) _____

6. The wattage of the incandescent light bulbs I replaced with the LEDs was (check all that apply)

- 40 Watts
- 60 Watts
- 75 Watts
- 100 Watts
- Other _____

7. Did you purchase any additional LEDs or CFLs to install in your home?

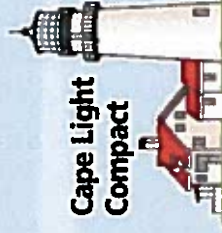
- Yes, how many? _____
- No

BEES School Year Results – 2015-16



<u>Participating School</u>	<u># Kits</u>	<u># Surveys Returned</u>
Wellfleet Elementary	28	0
Orleans Elementary	40	0
Brewster Elementary	80	0
Eastham Elementary	30	9
Monomoy Middle	150	146
Monomoy High School	65	33
Mattacheese Middle	212	125
Mashpee Middle	60	34
Sandwich STEM Academy		
7 th Grade	250	225
8 th Grade	260	0
Total:	1175	572
		48.6%

Lessons Learned



- Incentive checks to schools encouraged participation
- Add online survey input training to teacher workshops
- Emphasize required online survey input and give participation bonus checks to teachers who have at least 80% survey returns
- Hold teacher workshops in November and designate the months of Jan-Feb as the BEES Project window for implementation completion
- Hold regular special meetings/trainings for BEES Lead Teachers
- Question for the Board: Should we allow schools that don't follow through with surveys to continue to participate?

For more information:

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1. School: _____ 2. Teacher: _____ 3. Kit #: _____



Be Energy Efficient Smart Kit Installation Survey

The choices we make about the way we use energy have both environmental and economic impacts. There are many things we can do to use less energy and use it wisely. The Be Energy Efficient Smart (BEES) kit is a great way to start.

Follow the instructions in this survey and in the kit. **Return your completed survey to your classroom teacher.** Your teacher may have you input your survey on-line to help with compiling your class's results to determine how much energy your classroom has saved!

LIGHTING

We can save money and energy by switching out old inefficient light bulbs for LED lightbulbs (light emitting diodes). These use a solid-state technology to produce light. When we look at lighting, keep in mind these terms:

Lumens- a measure of the amount of light a bulb produces

Watts- a measure of the amount of electricity a bulb uses

Life- the average length of time a bulb is expected to operate in hours

WITH AN ADULT, change out 3 of your most inefficient light bulbs in your home with the LED lightbulbs in your kit.

4. How many of the LEDs from the kit did you install?
 - One
 - Two
 - Three
 - None

5. If you have not yet installed all 3 LEDs, how many of the LEDs do you plan to install?
 - One
 - Two
 - Three
 - None (briefly explain why you did not install the LEDs) _____

6. The wattage of the incandescent light bulbs I replaced with the LEDs was (check all that apply)
 - 40 Watts
 - 60 Watts
 - 75 Watts
 - 100 Watts
 - Other

7. Did you purchase any additional LEDs or CFLs to install in your home?
 - Yes, how many? _____
 - No

School: _____ Teacher: _____ Kit #: _____

INSULATION

The transfer of heat, air and moisture into and out of our homes is governed by the building envelope, which is made up of all the components that separate the inside of the home from the outdoors. Insulation and air sealing can help with keeping the inside environment comfortable and efficient.

WITH AN ADULT, install the Draft Stoppers in drafty electrical outlets. Carefully follow the instructions on the package.

8. Did you install the outlet and switch gaskets from your kit?

- Yes
- No (Briefly explain why) _____

HEATING AND COOLING

Heating and cooling systems use more energy than any other energy system. By measuring and understanding our heating and cooling systems in our homes, we can find new ways to save energy.

Place the temperature strip near your home's thermostat and check your energy costs.

9. What type of primary heating system does your home use?

- Natural Gas Furnace
- Natural Gas Boiler
- Oil Furnace
- Oil Boiler
- Heat pump
- Electric Baseboard/in-wall unit
- Propane Furnace
- Propane Boiler
- Wood Stove
- Geothermal
- Other

10. What type of primary cooling system does your home use?

- Central Air Conditioning
- Window Air Conditioning
- Room Fans
- Attic Fans
- Heat Pump
- Other

School: _____ Teacher: _____ Kit #: _____

11. What is the approximate square footage of your home?

- 500-1000
- 1001-1500
- 1501-2000
- 2001-2500
- 2501-3000
- 3001-3500
- 3501-4000
- 4001+

12. Did you (or will you) and your family change your thermostat setting for heating to the setting recommended in the energy efficiency education program (68 degrees F.)

- Yes, we lowered (or will lower) the setting
- No (Briefly explain) _____

13. If yes to question #12, by how much did you (or will you) lower the setting?

- 1-2 degrees F
- 3-4 degrees F
- 5-6 degrees F
- 7-8 degrees F
- 9 degrees or more

14. Did you (or will you) and your family change your thermostat setting for cooling to the setting recommended by the energy efficiency education program (78 degrees F.)

- Yes, we increased the setting
- No (Briefly explain why) _____

15. If yes to question #14, by how much did you (or will you) increase the cooling setting?

- 1-2 degrees F.
- 3-4 degrees F.
- 5-6 degrees F.
- 7-8 degrees F.
- 9 degrees or more

School: _____ Teacher: _____ Kit #: _____

WATER

When we save water, we save energy!

WITH AN ADULT, install the two faucet aerators with the help of the Teflon tape in your kit. You may want to install one in the bathroom and one in the kitchen.

16. What type of water heater does your home use?

- On-Demand
- Storage (Tank)
- Heat Pump Water Heater
- Other: _____

17. Did you (or will you) and your family change your thermostat setting for your water heater to the setting recommended in the energy efficiency education program (120 degrees F)?

- Yes, we lowered (or will lower) the setting
- No (Briefly explain why) _____

18. If you answered yes to question # 17, by how much did you lower your thermostat setting?

- 1-9 degrees F
- 10-19 degrees F
- 20-29 degrees F
- 30-39 degrees F
- 40 degrees or more

19. Did you install the kitchen faucet aerator from the energy efficiency kit?

- Yes
- No (Briefly explain why) _____

20. Did you install the bathroom faucet aerator from the energy efficiency items provided in class?

- Yes
- No (Briefly explain why) _____

21. On average, how many showers are taken each day?

- 1-2
- 3-4
- 5-6
- 7-8
- 9-10
- 11+

School: _____ Teacher: _____ Kit #: _____

APPLIANCES

Make sure your refrigerator and freezer are operating efficiently.

Place the Refrigerator and Freezer Thermometer card in your home's refrigerator and take a reading by following the instructions on the card. Do the same for your home's freezer.

22. Did you adjust the setting on your refrigerator to the setting recommended in the energy efficiency program (34 degrees – 40 degrees F)?

- Yes
- No (Briefly explain) _____

23. Did you adjust the setting on your freezer to the setting recommended in the energy efficiency program (0-5 degrees F)?

- Yes
- No (Briefly explain) _____

CONCLUSION

24. Have you made any other changes or do you plan to make any other changes in your home as a result of B.E.E.S?

- Yes (Briefly explain) _____
- No

25. Who provides electric service to your home? _____

26. How many people live in your home? _____

27. In what type of dwelling do you reside?

- Single Family Home
- Apartment/Condo/Duplex

Thank you for completing this survey and for your participation with your

Schools' B.E.E.S. Program!

For more information on Cape Light Compact's energy efficiency programs, please visit www.capelightcompact.org.

