BOURNE SCHOOL COMMITTEE

FACILITIES SUBCOMMITTEE MEETING

DATE: APRIL 27, 2012

TIME: 8:15AM

PLACE: BOURNE ADMINISTRATION BUILDING

REVISED AGENDA

1. Minutes
2. Cape Cod Collaborative Lease
3. Energy Plan
4. Current Facilities Issues Update
5. Review proposal for solar panels at Bourne High School
6. Future agenda items

"The listing of matters is those reasonably anticipated by the Chair which may be discussed at the meeting. Not all items listed may in fact be discussed and other items not listed may also be brought up for discussion to the extent permitted by law."

Members
Jonathan O'Hara
Laura Scena
Anne-Marie Siroonian

Edited + Approved 5/31/12

Bourne School Committee
Facilities Sub committee
April 27, 2012 - Administration Conference Room
In attendance: Anne-Marie, Laura Scena
Absent: Jay O'Hara

Cape Cod Collaborative Lease: Ed talked to Paul Hilton. Everything has been approved. There is a clause on the lease for us to put 10,000 dollars in repairs. They plan to replace the gym floor so we will make a contribution towards it. We will not be involved with the roof replacement. We have five slots with three in free tuition. We definitely need signatures for June school committee meeting.

Energy Plan: what are some short term goals and long term in regards to energy usage in the buildings. Need to get Cape Cod Light Compact to look at the buildings and report out what changes we need to make and what can be replaced by CCLC. This service is free and light replacement is also free. Ed will contact TJ Turner to maximize any free opportunities for our buildings. This would involve parking lot lights and overnight lights in our buildings. Look at the Cecil Group plan.

Current Facilities Issues Update

High School: gas conversion is complete. Roof leak by main office and side of auditorium have been repaired.

BMS: two of their boilers have leaked and were repaired. Ed is seeking a claim with the insurance company.

Central Office: Looking to replacing the entire boilers at Central Office. Window project is complete. Preliminary approval on the roof replacement project.

Peebles: Clock system has been installed for automatic shot off for boilers. State will come out to review asbestos issues, if any, and make sure we are in compliance. No additional news on the SOI.

Bournedale: ongoing issues with the fobs in the doors. Les had been dealing with this. Parts have been ordered. Bournedale mural is not moving forward at this time.

Solar Panels for BHS: Richard Eldrick presentation on project by CVEC for installation of solar panels on the high school roof. What happens when the roof needs repair, who is responsible for removing the system and incurring that cost? Question came up as to what is the Net Metering credit for the middle school? Need to recommend the project moving forward at next SC meeting and motion for vote by full committee. What is the timeline and need to have guidelines in contract for installation so that it does not disrupt the school schedule. Still pending a final engineering evaluation for integrity of roof. What will the conduits look like against the building? How many and where?

Future Agenda Items

BHS Solar Panel Project Re-Visit
Confirmation of CCC Lease
Energy Plan – CC Light Compact
Update on Field Maintenance Plan

Next Meeting Date: May 31, 2012 - 8:15am at Central Office

Broadway Electrical and Cape & Vineyard Electric Cooperative Announce Partnership for PV contract

State and community leaders mark partnership and plan for Round II PV Contract for Cape Cod and Martha's Vineyard

Barnstable, MA—April 19, 2012—Broadway Electrical and Cape & Vineyard Electric Cooperative (CVEC) held a press conference today to announce that Broadway has been awarded the Round II PV contract. The award consists of two tiers, tier I is 25.833 MW of PV and tier II is an additional 23.538 MW of PV. The unique partnership is a successful example of a Massachusetts renewable energy project, providing economic, environmental and educational benefits to the town and state.

The event was held at Barnstable Village Superior Courthouse and was attended by state and local officials including, Massachusetts Department of Energy Resources Commissioner, Mark Sylvia.

Broadway Electrical was selected to design and install 44 PV systems throughout Cape Cod and Martha's Vineyard. The PV systems will provide Cape and Vineyard municipal entities electricity at a defined - fixed for 20 years - per kWh rate, helping to protect the town's budget from future volatile energy prices.

"CVEC selected Broadway Electrical as its partner for round II of the PV contract because of their wide-ranging track record in facilities around New England, their comprehensive approach to solar projects, and their strong record in meeting performance guarantees. We're looking forward to the project's outcomes and the collaboration the partnerships represent," said Charles McLaughlin, President and Town of Barnstable Director, Cape & Vineyard Electric Cooperative. "This project, along with the existing renewable energy efforts of CVEC member towns, counties, and the Cape Light Compact's energy efficiency program, are significant contribution towards a sustainable Cape Cod and Martha's Vineyard. The groundwork laid by this project and its project investors will pay great dividends for our town in the years to come."

The project is expected to result in significant annual cost savings to all of the CVEC member towns and counties.

"This project would not have been possible without CVEC's proven commitment and dedication to renewable energy," said Jonathan Wienslaw, President, Broadway Electrical Company, Inc. "These projects will provide a more efficient energy system to the community and will continue to help reduce the town's utility bills throughout the upcoming years. Not only will the PV projects protecting the town's budget from energy prices, it will also open the doors for other energy projects to develop within the overall community. "

CVEC will grant Broadway necessary rights to design, procure, install, test, commission, own, operate and maintain the PV system at the 44 sites. Broadway is responsible for all permits and approvals necessary to develop the PV systems at the sites including MA DEP post closure use of landfills.

About Cape & Vineyard Electric Cooperative
Cape & Vineyard Electric Cooperative, Inc. (CVEC) was organized on September 12, 2007. CVEC was formed under Massachusetts General Laws, c. 164, §136. Section 136 provides for the establishment of energy cooperatives. Section 136 cooperatives can, among other things: (1) purchase and own generation, transmission and other projects and property; (2) enter into contracts and incur liabilities; (3) borrow money, issue notes and bonds; (4) enter into private/public collaboration (contractual); (5) purchase, sell, and distribute energy; and (6) sell electricity to any consumers within CVEC member communities. For more information on CVEC please visit www.cvecinc.org

About Broadway Electrical Company Inc.
Broadway Electrical Company, Inc. is a leading full service electrical construction company, headquartered in Boston, MA. Founded in 1936, Broadway is a third generation company and one of the Northeast's largest electrical contractors. Broadway's track record for delivering construction excellence spans major commercial, educational, health care, biotechnology, industrial, power and government projects. Broadway provides complete turnkey Renewable Energy Solutions including Engineering, Procurement, Construction and Power Purchase Agreements. Broadway's team of professionals is experienced in providing solar and wind energy installations. For more information on Broadway Electrical Company, Inc. please visit: http://www.broadelec.com/

###

Press Contact:

Kara Doran
617-391-9646
Kdoran@rasky.com

Maggie Downey
508-375-6636
mdowney@barnstablecounty.org

Broadway Electrical

A SOLAR PRESENTATION

for

Cape & Vineyard Electric Cooperative, Inc.



Cape & Vineyard Electric Cooperative

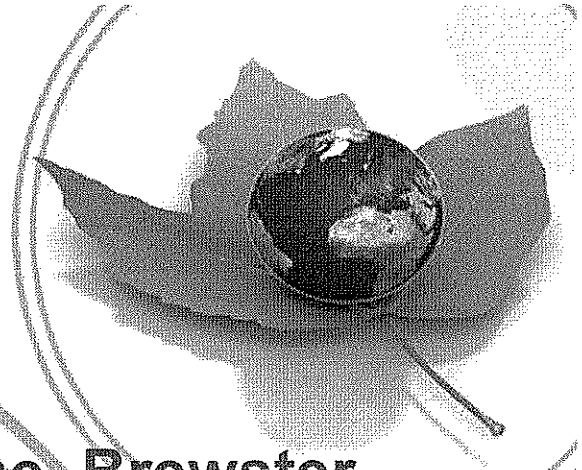


- Organized on September 12, 2007
- Three initial members: Cape Light Compact, Barnstable County and Town of Barnstable
- Currently 20 members
- Founding purpose – develop renewable energy projects

Cape & Vineyard Electric Cooperative, Inc.

BROADWAY

CVEC Members

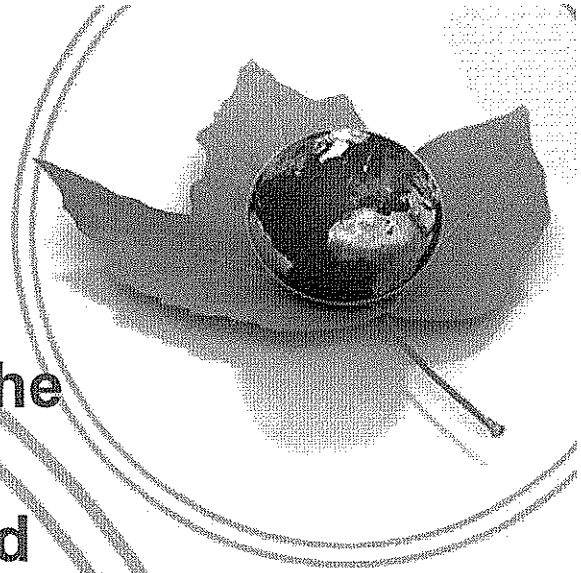


- Seventeen Towns (Barnstable, Bourne, Brewster, Chatham, Dennis, Eastham, Edgartown, Falmouth, Harwich, Mashpee, Oak Bluffs, Orleans, Provincetown, Sandwich, Tisbury, West Tisbury and Yarmouth)
- Two Counties (Barnstable and Dukes)
- Cape Light Compact

Cape & Vineyard Electric Cooperative, Inc.

BROADWAY

OVERVIEW OF PROCESS



- CVEC issued RFP on behalf of all of the members
- Total of 44 sites on Cape and Vineyard
- Proposals were due September 2011
- CVEC Received Proposals from 11 vendors
- Selected Broadway Electrical Company, as the vendor providing the best value to CVEC
- 31 "A" Sites Awarded
- 13 "B" Sites Awarded

Cape & Vineyard Electric Cooperative Inc.

BROADWAY

Energy Management Services Agreement

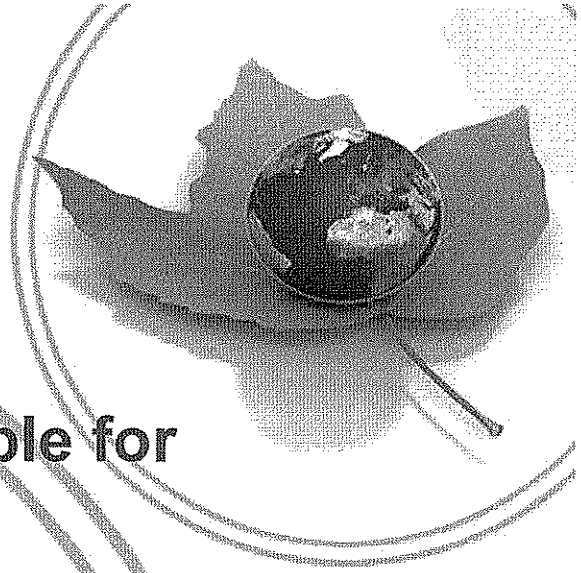


- CVEC will grant Broadway necessary rights to design, procure, install, test, commission, own, operate and maintain the PV system at the 44 sites
- Broadway is responsible for all permits and approvals necessary to develop the PV systems at the sites including MA DEP post closure use of landfills
- Net metering and all capacity benefits accrue to CVEC and CVEC reserves the right to resale energy output

Cape & Vineyard Electric Cooperative Inc.

BROADWAY

Project Structure



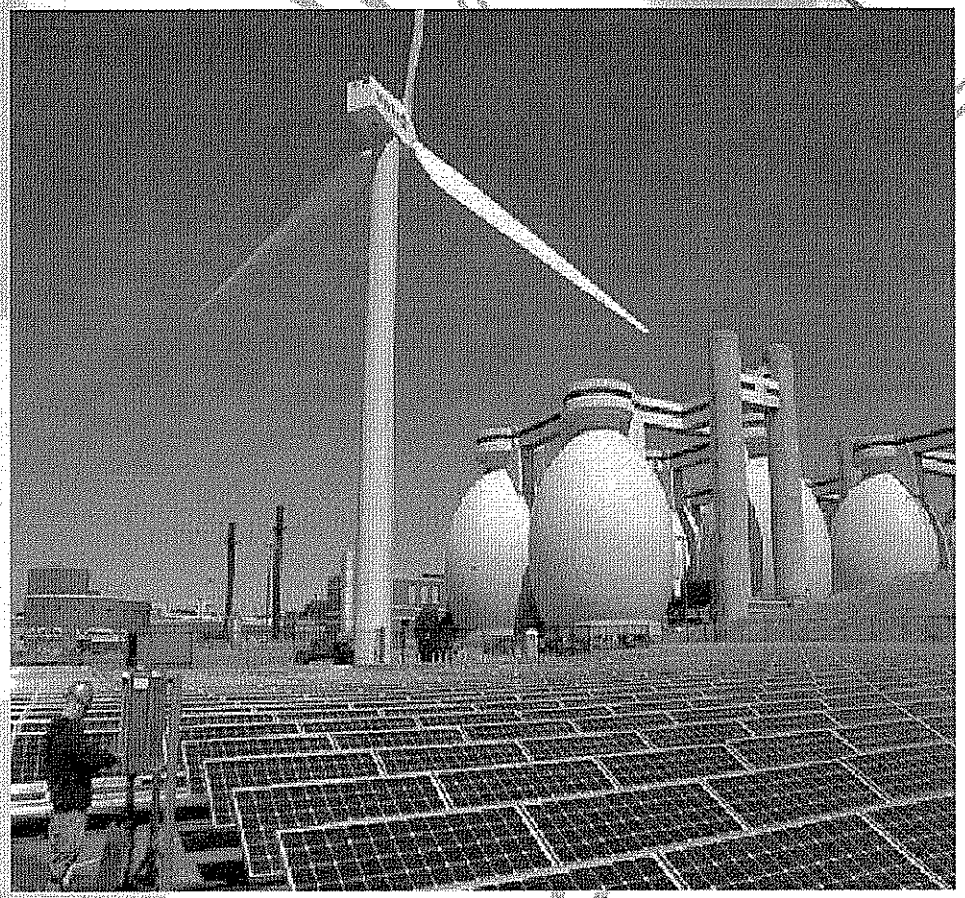
- Vendor Owns Facility – responsible for obtaining all permits for projects
- CVEC Buys Output from Vendor
- CVEC sell "Output" to CVEC Member/Non-Member through Intergovernmental Power Purchase Agreement (PPA)

Cape & Vineyard Electric Cooperative Inc.

BROADWAY

Broadway Electrical Company

- *76 year old Boston based electrical contractor,*
- *third generation owned,*
- *DCAM certified,*
- *licensed electricians,*
- *most installed base of PV in Massachusetts*

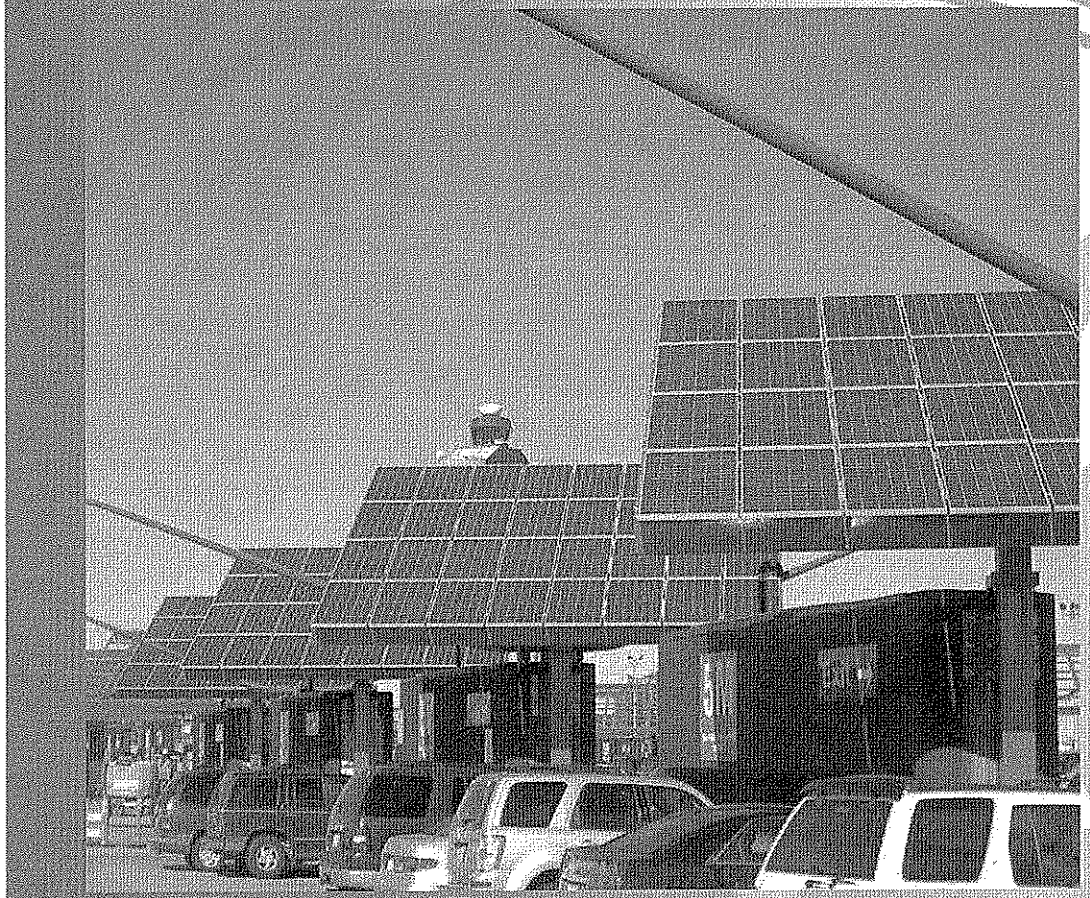


MWRA Deer Island

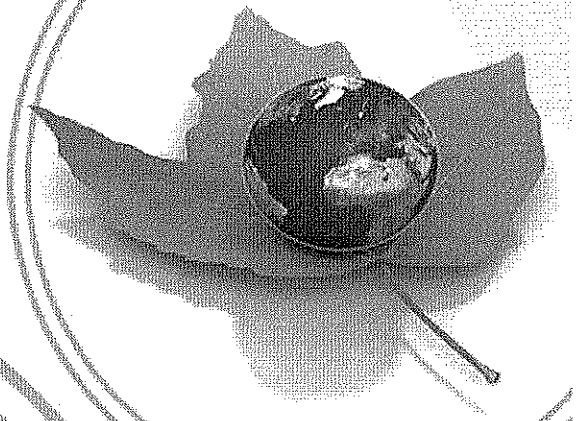
Cape & Vineyard Electric Cooperative Inc.

BROADWAY

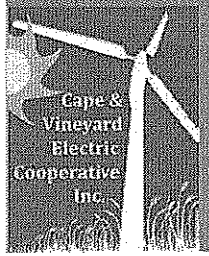
Broadway Electrical Company



Logan Terminal B Parking Garage



- *From design, construction and final commissioning, Broadway provides turnkey renewable energy solutions for diverse projects.*

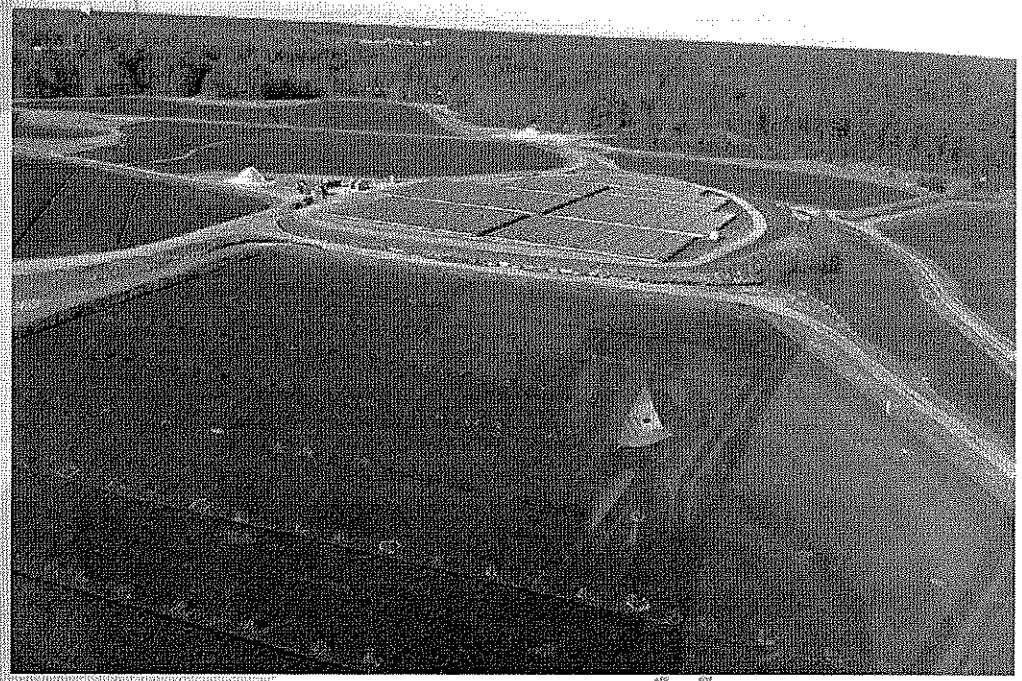


BROADWAY

Broadway Electrical Company



- *Broadway's track record for delivering construction excellence spans all major commercial, educational, health care, biotechnology, industrial, power and government projects.*

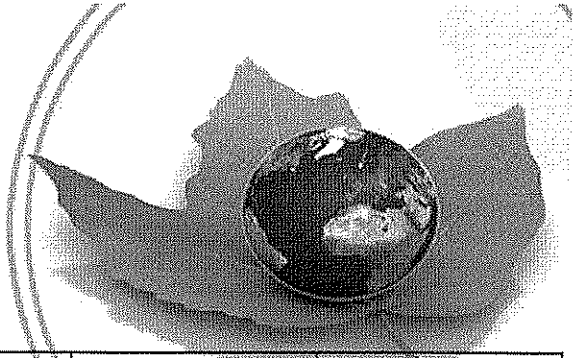


A.D. Makepeace Wareham, MA

Cape & Vineyard Electric Cooperative Inc.

BROADWAY

Project Summary



Town / District	Project Name	Address of Location	PV System Size (kW DC)	Estimated Production (MWH)
Town of Barnstable	Airport - Section 1, Site A	479 Barnstable Rd, Hyannis	2,495	3,121
Town of Barnstable	Airport - Section 2, Site B	480 Barnstable Rd, Hyannis	5,212	6,521
Town of Barnstable	Barnstable Senior Center	826 Falmouth Road, Hyannis	140	176
Town of Barnstable	Barnstable High School	744 West Main St., Hyannis	463	579
Town of Barnstable	West Villages Elem. School	730 Osterville West Barnstable Road, Marston Mills	63	78
Town of Barnstable	Independence Park	145 Breed's Hill Rd., Barnstable	3,337	4,174
Town of Bourne	Community Center	239 Main St., Buzzards Bay	35	44
Town of Bourne	Fire Station	51 Meetinghouse Lane, Sagamore	19	24
Town of Bourne	Bourne High School	75 Waterhouse Rd., Bourne	482	603
Town of Brewster	Water Dept. Facility	165 Commerce Park Rd., Brewster	21	26
Town of Brewster	Commerce Park	Freeman's Way Industrial Park, Brewster	4,759	5,954
Town of Chatham	Airport	240 George Ryder Rd., Chatham	1,404	1,756
Town of Chatham	Police Station	249 George Ryder Rd., Chatham	17	22
Town of Chatham	Town Hall Annex	261 George Ryder Rd., Chatham	7	9

Cape & Vineyard Electric Cooperative Inc.

BROADWAY

Project Summary

Town / District	Project Name	Address of Location	PV System Size (kW DC)	Estimated Production (MWH)
Dennis / Yarmouth Schools	DY High School	210 Station Ave., S. Yarmouth	1,276	1,596
Dennis / Yarmouth Schools	DY High School	210 Station Ave., S. Yarmouth	641	802
Dennis / Yarmouth Schools	Ezra Baker School	810 Rte. 28, W. Dennis	79	99
Dennis / Yarmouth Schools	Marguerite Small School	440 Higgins Crowell Rd., W. Yarmouth	861	1,077
Dennis / Yarmouth Schools	Mattacheese School	400 Higgins Crowell Rd., W. Yarmouth	1,378	1,724
Dennis / Yarmouth Schools	Mattacheese School	400 Higgins Crowell Rd., W. Yarmouth	300	375
Dennis / Yarmouth Schools	Wixon School	901 Route 134, S. Dennis	581	726
Town of Harwich	Community Center	100 Oak Street, Harwich	530	662
Nauset School District	Nauset High School	100 Cable Road, N. Eastham	565	706
Town of Oak Bluffs	Oak Bluffs School	1 Trade Winds Road, Oak Bluffs, MA	93	116
Town of Orleans	Orleans Landfill	56 Lots Hollow Road, Orleans	574	718
Town of Provincetown	Provincetown High School	12 Winslow St., Provincetown	54	68
Town of Provincetown	Transfer Station	90 Race Point Rd., Provincetown	236	295
Town of Sandwich	Oak Ridge School	260 Quaker Meetinghouse Rd. Sandwich	211	263
Town of Sandwich	Forestdale School	151 Route 130, Sandwich	89	112
Town of Sandwich	Sandwich High School	365 Quaker Meetinghouse Rd. Sandwich	191	239
Town of Sandwich	East of Human Services	270 Quaker Meetinghouse Rd. Sandwich	1,282	1,604
Town of Tisbury	DPW Bldg.	115 High Point Lane, Tisbury	22	28
Town of West Tisbury	West Tisbury Landfill	47 Old Stage Road off State Road, West Tisbury	884	1,105
		Total Amount of PV for Tier A =	**28,301**	**35,405**

Cape & Vineyard Electric Cooperative, Inc.

BROADWAY

Project Summary

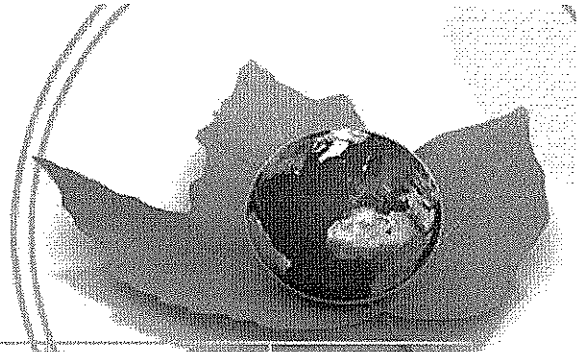


Town / District	Project Name	Address of Location	PV System Size (kW DC)	Estimated Production (MWH)
COMM Water District	Hayden Wellfield	1910 Old Post Rd., Centerville & Marston Mills	4,377	5,475
COMM Water District	Murray Wellfield	715 Old Falmouth Rd Centerville & Marston Mills	2,456	3,073
Town of Harwich	Water Dept. – Wellfield 3	Off West Gate Rd., Harwich	3,528	4,414
Town of Orleans	Orleans Watershed Land	56 Lots Hollow Road, Orleans	855	1,070
Town of Sandwich	Pinkham Rd. Well Site # 11	97 Pinkham Road, S. Sandwich	4,549	5,691
Town of Sandwich	Discovery Hill	North of Kiah's Way, near Route 130, Sandwich	4,871	6,094
Town of Tisbury	Septage Area	at end of Old Holmes Hole Rd, Tisbury	833	1,042
Town of Yarmouth	Wellfield 20, 24	24 Higgins Crowell Rd., W. Yarmouth	1,400	1,751
Town of Yarmouth	Wellfield 23	24 Higgins Crowell Rd., W. Yarmouth	670	838
		Total Amount of PV for Tier B =	**23,538**	**29,447**
		Total Amount of PV for Tiers A and B =	**51,840**	**64,851**

Cape & Vineyard Electric Cooperative Inc.

BROADWAY

Emissions Savings



Savings in Emissions	"A" Sites	"B" Sites
MWH	31,000	28,246
Tons of CO_2	23,568	21,474
Tons of Methane	1,121	1,021
Gallons of Gasoline	2,396,438	2,183,539
Barrels of Oil Consumed	49,712	45,296
Tanker Trucks of Gasoline	282	257
Electricity Use Number of Homes in One Year	2,665	2,428
Energy Use Number of Homes in One Year	1,851	1,687
Carbon sequestered by tree seedlings grown for 10 years	548,108	499,414
Carbon sequestered annually by acres of pine or fir forests	4,558	4,153
Carbon sequestered annually by acres of forest preserved from deforestation	212	193
Number of Propane Cylinders for BBQ's	890,676	811,548
Railcars Worth of Coal	116	106
Greenhouse gas emissions avoided by recycling tons of waste	7,448	6,786
Annual CO2 emissions of coal fired power plants	0.005	0.005

Cape & Vineyard Electric Cooperative, Inc.

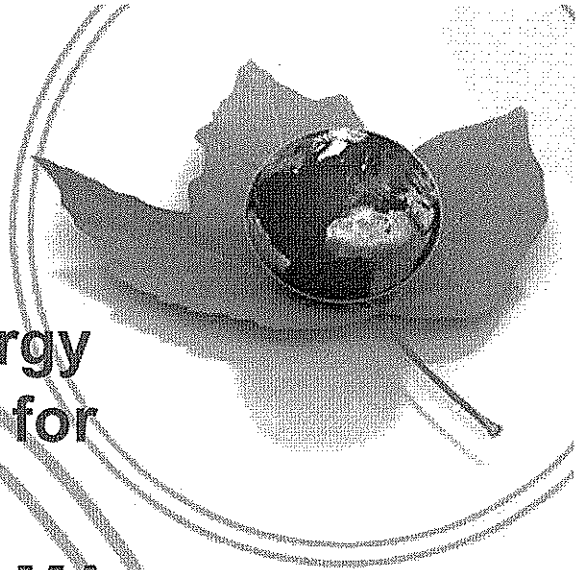
BROADWAY

What Size of Systems?



Cape & Vineyard Electric Cooperative • 49.4 MW • SEMA, MA

Next Steps



- CVEC and Broadway execute Energy Management Services Agreement for each site
- CVEC submits EMS Agreement to MA DOER
- Broadway begins permitting process estimated to take up to 18 months
- Commercial operations expected to start by Q1 2013

Cape & Vineyard Electric Cooperative Inc.

BROADWAY