

# Cape Light Compact's 2019-2021 Three-Year Energy Efficiency Plan



*Working Together Toward A Smarter Energy Future*

# Cape Light Compact



- Award-winning energy services organization operated by the 21 towns on Cape Cod and Martha's Vineyard
- Mission: serve customers through delivery of
  - proven energy efficiency programs
  - effective consumer advocacy
  - competitive power supply and green aggregation
- Model for other community choice aggregation programs in MA and nationally



# Background on Three-Year Energy Efficiency Plan



- 2008 Massachusetts Green Communities Act (GCA) mandates *“electric and natural gas resource needs shall first be met through all available energy efficiency and demand reduction resources that are cost effective or less expensive than supply.”*
- 2018 Amendments to the GCA:
  - Explicitly allows for cost effective energy storage and other active demand management technologies
  - Adds cost-effective strategic electrification
  - Explicitly authorizes renewable funding through EE funds
  - Changes cost-effectiveness requirement from program level to sector level (increases flexibility)
- Meetings with Department of Energy Resources and the Attorney General indicate Program Administrators’ 2019-2021 Energy Efficiency Plans should comply with amendments
- Compact works collaboratively with seven other statewide PAs to provide cost-effective energy efficiency programs. These programs are most commonly known as Mass Save®.

# Overview of Compact Programs



Sector	Program	Initiative
Residential	Residential New Buildings	Residential New Homes & Renovations
	Residential Existing Buildings	Residential Coordinated Delivery
		Residential Conservation Services
		Residential Retail
		Residential Behavior & Active Demand Reduction
Income-Eligible	Income-Eligible Existing Buildings	Income-Eligible Coordinated Delivery
Commercial & Industrial	C&I New Buildings	C&I New Buildings and Major Renovations
	C&I Existing Buildings	C&I Existing Building Retrofit
		C&I New & Replacement Equipment
		C&I Active Demand Reduction

Residential is non-income eligible, 61% + of state median income and includes multi-family (5+ units)

Income Eligible is up to 60% state median income, fuel assistance, and other income eligible benefits

Commercial and Industrial is businesses (including non-profits, churches, etc.), industrial, and municipal

# CLC Specific Program Enhancements

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# CLC Enhancements



## Residential

- Continue with cost effective no cap insulation offer for residential customers
- Continue to serve all electric customers who contact the Compact regardless of how they heat their homes
- Continue offering 100% insulation incentives to our renter and moderate income customers
- Continue to explore ways to serve our hard-to-reach customers
- Battery Storage and Active Demand Response
- Behavior Offering Home Energy Report – Opower
- Strategic Electrification Offering
  - 700 total residential customers: convert oil, propane, electric resistance heat to cold climate heat pumps
  - Install PV systems to support electrification of heating system
  - Install battery storage for demand response
  - Tiered incentives based on income



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# CLC Enhancements continued



## Commercial & Industrial

- Municipal up to 100% cost effective incentives
- Eligible Non-profits 100% cost effective incentives
- Year-round tenants 100% cost effective incentives
- Serve Oil, propane, other fuel customers
- Continue to Offer “Main Streets”



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# Enhanced Residential Income Verification Offerings



- Continue Compact-specific income verification for low-income customers

Household Members	60% State Median Income (SMI)
1	\$35,510
2	\$46,437
3	\$57,363
4	\$68,289

- Continue Compact-specific income verification for customers 61-80% and 81-120% of Barnstable and Dukes County AMI

Household Members	61-80% Barnstable County AMI	61-80% Dukes County AMI	81-120% Barnstable County AMI	81-120% Dukes County AMI
1	\$35,511 - \$48,300	\$35,511 - \$50,350	\$50,351 - \$72,480	\$50,351 - \$77,880
2	\$46,438 - \$55,200	\$46,438 - \$57,550	\$57,551 - \$82,800	\$57,551 - \$89,040
3	\$57,364 - \$62,100	\$57,364 - \$64,750	\$64,751 - \$93,120	\$64,751 - \$100,200
4	\$68,290 - \$68,950	\$68,290 - \$71,900	\$71,901 - 103,440	\$71,901 - \$111,240



# 2019 – 2021 Budget and savings



## Total Budget (all sectors) October with a Benefit Cost Ratio of 2.21

2019	2020	2021	2019 - 2021
\$47,212,059	\$58,194,204	\$61,392,479	\$166,798,742

## Net Savings (all sectors) October

	2019	2020	2021	2019 - 2021
Annual (MWh)	40,687	40,320	37,546	118,554
Lifetime (MWh)	335,288	349,480	354,465	1,039,233

# 2019 – 2021 Bill Impacts



## Residential (R-1)

Years	EERF	Energy Conservation	Avg. Monthly Usage (kWh)	Total Cost (per month)
2018	\$0.01859 +	\$0.00250 x	516 =	\$10.88
2019-2021	\$0.02797 +	x	=	\$15.72
Total Cost difference				\$4.84

## **Bill Impact of Enhancements**

Resi	19-21 Total Cost / mo	\$4.56
LI	19-21 Total Cost / mo	\$0.87
C&I	19-21 Total Cost / mo	\$1.64 - \$44.28

## Low Income (R-2)

Years	EERF	Energy Conservation	Avg. Monthly Usage (kWh)	Total Cost (per month)
2018	\$0.00148 +	\$0.00250 x	488 =	\$1.94
2019-2021	\$0.00336 +	x	=	\$2.86
Total Cost difference				\$0.92

## C&I Small General Service (G-1)

Years	EERF	Energy Conservation	Avg. Monthly Usage (kWh)	Total Cost (per month)	Avg. Monthly Usage (kWh)	Total Cost (per month)
2018	\$0.00530 +	\$0.00250 x	400 =	\$3.12	10,800 =	\$84.24
2019-2021	\$0.01502 +	x	=	\$7.01	=	\$189.22
Total Cost difference				\$3.89		\$104.98

# Next Steps



Date	Action
October 31	Compact & all PAs file final 2019-2021 Statewide EE Plan with Department of Public Utilities
December 3	Public Hearing at DPU; written comments due by 5 pm

We encourage stakeholders and members of the public to submit comments to the DPU. Comments can be emailed to the Sarah Smegal, DPU Hearing Officer, as an email attachment to [dpu.efiling@mass.gov](mailto:dpu.efiling@mass.gov) with a copy to [sarah.smegal@mass.gov](mailto:sarah.smegal@mass.gov).

# Thank You!

- Final Plan:

<https://www.capelightcompact.org/eeplan/>

## Feedback

- Email: [info@capelightcompact.org](mailto:info@capelightcompact.org)
- Mail:

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