Cape Light Compact JPE Executive Committee & Governing Board Meeting

DATE:

Wednesday, July, 11, 2018

LOCATION:

Cape Light Compact Offices - MV Conference Room

261 Whites Path, Unit 4, South Yarmouth

TIME:

2:00 - 4:30 p.m.

AGENDA

2:00 PM

Public Comment

Approval of Minutes

Chairman's Report

Fiscal Report, Peter Cocolis

Recap of the 2017 Energy Efficiency Term Report, Briana Kane

2019-2021 Energy Efficiency Plan, Cape Light Compact Enhancements, Phil Moffit

Update on DPU 18-50, Eversource Performance Metrics for Its Performance-Based Ratemaking Mechanism, Jeff Bernstein

Board Member Update (Reserved for Updates on Member Activities the Chair Did Not Reasonably Anticipate Would be Discussed – No Voting)

Cape Light Compact JPE 2018 Operating Fund 001 Budget Report As of June 30, 2018

	Budget <u>Amount</u>	Actual <u>Amount</u>	Remaining <u>Amount</u>	Remaining %
REVENUE			<u>-</u>	_
OPERATING FUND CY18-TRANSFERS IN	848,765.00	848,765.00	0.00	0.00%
OPERATING FUND CY18-INTEREST INCOME	0.00	28,635.64	(28,635.64)	0.0070
TOTAL REVENUES	848,765.00	877,400.64	(28,635.64)	
EVENUE				
EXPENSES				
OPERATING FUND CY18-ADVERTISING (POWER SUPPLY)	85,000.00	24,974.94	60,025.06	70.62%
OPERATING FUND CY18-AUDIT FEES	11,250.00	612.50	10,637.50	94.56%
OPERATING FUND CY18-BANK FEES	500.00	0.00	500.00	100.00%
OPERATING FUND CY18-BUILDING RENOVATNS/FURNITU	3,500.00	1,134.97	2,365.03	67.57%
OPERATING FUND CY18-COMPUTER EQUIPMENT	5,000.00	0.00	5,000.00	100.00%
OPERATING FUND CY18-CONTRACTUAL	67,805.00	67,803.25	1.75	0.00%
OPERATING FUND CY18-CUSTODIAL SERVICES	4,438.00	1,814.24	2,623.76	59.12%
OPERATING FUND CY18-FINANCIAL SOFTWARE SYSTEM	6,250.00	2,700.00	3,550.00	56.80%
OPERATING FUND CY18-FOOD SUPPLIES	5,500.00	5,020.67	479.33	8.72%
OPERATING FUND CY18-GROUP INSURANCE	19,790.00	11,771.06	8,018.94	40.52%
OPERATING FUND CY18-IN STATE TRAVEL	16,000.00	6,500.52	9,499.48	59.37%
OPERATING FUND CY18-INSURANCE	10,600.00	0.00	10,600.00	100.00%
OPERATING FUND CY18-INTERNET	2,700.00	1,522.29	1,177.71	43.62%
OPERATING FUND CY18-IT SERVICES	5,000.00	81.77	4,918.23	98,36%
OPERATING FUND CY18-LEGAL SERVICES	263,660.00	194,651.14	69,008.86	26.17%
OPERATING FUND CY18-MEDICARE	2,060.00	941.98	1,118.02	54.27%
OPERATING FUND CY18-MISC FRINGES	585.00	67.43	517.57	88.47%
OPERATING FUND CY18-MISC RENTALS	3,200.00	1,078.62	2,121.38	66.29%
OPERATING FUND CY18-OPEB LIABILITY	7,100.00	0.00	7,100.00	100.00%
OPERATING FUND CY18-OUT OF STATE TRAVEL	1,600.00	0.00	1,600.00	100.00%
OPERATING FUND CY18-OUTREACH/MARKETING SERV	15,000.00	4,619.00	10,381.00	69.21%
OPERATING FUND CY18-PAYROLL SERVICES	1,500.00	1,492.25	7.75	0.52%
OPERATING FUND CY18-POSTAGE	26,000.00	10,418.10	15,581.90	59.93%
OPERATING FUND CY18-PRINTING	12,500.00	6,074.63	6,425.37	51.40%
OPERATING FUND CY18-PROFESSIONAL DEVELOPMENT	5,000.00	0.00	5,000.00	100.00%
OPERATING FUND CY18-RENT	22,500.00	11,250.00	11,250.00	50.00%
OPERATING FUND CY18-RETIREMENT	35,447.00	0.00	35,447.00	100.00%
OPERATING FUND CY18-RETIREMENT LIABILITY	5,300.00	0.00	5,300.00	100.00%
OPERATING FUND CY18-SALARIES	141,790.00	64,965.87	76,824.13	54.18%
OPERATING FUND CY18-SALARY RESERVE	5,000.00	0.00	5,000.00	100.00%
OPERATING FUND CY18-SHIPPING/FREIGHT	500.00	49.98	450.02	90.00%
OPERATING FUND CY18-SOFTWARE LICENSES	3,750.00	1,341.43	2,408.57	64.23%
OPERATING FUND CY18-SPONSORSHIPS	35,000.00	26,301.00	8,699.00	24.85%
OPERATING FUND CY18-SUBSCRIPTIONS	5,500.00	5,496.40	3.60	0.07%
OPERATING FUND CY18-SUPPLIES	500.00	24.37	475.63	95.13%
OPERATING FUND CY18-TELEPHONES	4,540.00	1,944.81	2,595.19	57.16%
OPERATING FUND CY18-TREASURY SERVICES	5,000.00	2,352.50	2,647.50	52.95%
OPERATING FUND CY18-UNPAID BILLS	2,000.00	0.00	2,000.00	100.00%
OPERATING FUND CY18-UTILITIES	400.00	225.00	175.00	43.75%
TOTAL EXPENSES	848,765.00	457,230.72	391,534.28	46.13%
CHANGE IN NET POSITION	0.00	420,169.92		

2018 Budgeted (Based on 2018 Energy Efficiency Surcharge)

as Percent

2018 Actuals through May 2018

	┝			i	PAC	PA Costs	;				
Program	L	PP&A	Marketing	\vdash	Incentives	STAT	Ľ	EMV	۴	Total PA Costs	
A - Residendal	\$	1,432,521	\$ 582,497	-	109'992'21 8	\$ 5,837,393	-	\$ 99,489	3 2	26,088,905	
A - Residential Whole House	\$	958.755	\$ 256,607	27	12,411,756	\$ 4.87	4,871,209	794,116	9	19.292,442	
Ala - Residential New Construction	•	26.0.9	\$ 8.842	2	524,850	S.	112.034	\$ 25,889	9	697,613	
A1b - Residential Multi-Family Retrofit	\$	44,004	\$ 32.131	<u> </u>	\$86,000	\$	350.098	\$ 40.232	2	1.052,465	
A1c - Residential Home Energy Services - Measures	*	778,565	\$ 153,265	55 3	11,128,209	\$ 254	2.545.379	5 636.626	9	15.242.044	
A1d - Residential Home Energy Services - RCS	s	47,977	\$ 45.393	33		5 1,73		\$ 78.831	- 8	1,957,938	
Ale - Residential Behavior/Feedback Program	50	12,191	\$ 16,976	76 3	172.698	2 13	127.960	\$ 12.538	8	342,362	
A2 - Residential Products	*	226.629	\$ 153,478	78 3	3,700,000	\$ 72	726.755	\$ 195,546	9	5,002,408	
A2a - Residential Heating & Cooling Equipment	s÷	114.665	\$ 18,083	83	1.500.000	\$ 29	290.757	\$ 84,925	\$ \$	2,028,430	
A2b - Residential Consumer Products	8	18,804	\$ 26.797	97 9	200.000	\$ 15	156.605	\$ 16.322	2 \$	418,528	
A2c - Residential Lighting	\$	93,160	\$ 36.598	8 8	2.000,000	\$ 27	179,192	\$ 94,300	0 8	2.555.450	
A3 - Residential Hand-to-Measure	w	247,138	\$ 172.612	12.5	1,134,875	\$ 23	239,430		2	1,794,055	
A32 - Residential Statewide Marketing	\$	53	\$ 112,017	17 5					2	112.017	
A3b - Residential Statewide Database	\$	(3.253	*	Ï		\$	·	•	8		
A3c - Residential DOER Assessment	sa.	145,089	·	*	,	\$	·		-	145.089	
A3d - Residential EEAC Consultants	s	(3)		-		2	•		-		
Ale - Residential Sponsorships & Subscriptions	2	27,522	\$ 11.165	65 3		\$			S	38,687	
A3f - Residential HEAT Loan	2	61.273	\$ 11.930	30	1.099,875	5 14	144,830		~	1,317,908	
A3g - Residental Workforce Development	\$	÷		-		2	19.600	,	s	19,600	
A3h - Residential R&D and Demonstration	\$	+.	\$ 12.500	8	35.000	2	75.000		~	122,500	
A31 - Residental Education	55		\$ 25.000	8	٠				150	25,000	
8 - Lew-Income	\$	312,463	\$ 86,286		\$ 3,564,450 \$		1,080,729	\$ 205,199	:	5,249,529	
BI - Low-Income Whole House	-	223.978	\$ 61.340	₽ ₽	3,564,650	80.1	1.080,729	\$ 205,199	8	5.135.896	
Bla - Low-Income Smgle Family Retrofit	₩	155,472	\$ 43,084	2 2		89	693.014	\$ 128.598	100	1.020,167	
8 lb - Low-Income Multi-Family Retrofit	.	68.507	\$ 18.256	35	1.564,650	288	387,716	\$ 76,601	<u>~</u>	2,115,729	
82 - Low-Income Hard-to-Measure	-	189.687		9			-				
82.4 - Low-Income Statewide Markeung	55		\$ 12.684	_					-	22.684	
826 - Low-Income Statewide Database	5	2.684	~	-	,	2	,		~	2,684	
B2c - Low-Income DOER Assessment	50	29.381	,	-		2			~	29.381	
B2d - Low-Income Energy Affordability Network	55	46.627		-	,				~	46,627	
B2e - Law-Income Sponsorships & Subscriptions	-	9666	\$ 2,262	23	٠	.s			<u>~</u>	12,258	
C - Commercial & Industrial	100	1,139,338	\$ 294,981	⊢	\$ 13,104,377	\$ 2,72	1,728,701	\$ 693,565	\$ 5	17,960,861	
CI - CAI New Construction	15	78.303	13.794	<i>z</i>	714,679	\$ 32	326,443	\$ 49,175	F41	1,182,593	
Cla - C&I New Buildings & Major Renovations	s	60.356	\$ 9,091	<u> </u>	454.879	\$ 26	268.615	5 15.727	2	828.668	
C16 - C&I Initial Purchase & End of Useful Life	ss.	17.947	\$ 4.703	8	260,000	\$	57,827	\$ 13,448	8	151.925	
C2 - C41 Retrofit	50	918.648	\$ 193,368	3	12,319,398	\$ 2,36	2,367,258	\$ 644,390	S O	16,443,062	
C2s + C&I Existing Building Retrofit	ы	224,143	\$ 58,791	5	6.217.000	\$ 24	541.594	5 243.235	2	7,284,962	
C2b + C&I Small Business	w	551,786	\$ 103,110	_	\$ 5.293.048	\$ 1.29	.293.344	\$ 326.413	3	7,567,701	
C2c - C&I Mutufamily Retrofit	uh	47.055	\$ 17,087	87	250.000	\$ 34	146.373	\$ 28.995	\$ 5	115'689	
C2d - C&I Upstream Lighting	S	95,465	s	_	\$ 559,350	81	_	\$ 45,746	9	900.888	
C3 - C41 Hard-to-Measure	u9	142,387	87,819	19	70,000	\$ 3	35,000		25	335,206	
C3a - C&I Statewide Marketing	w		\$ 75,299	8 66		\$		•	2	75.299	
C3b - C&I Statewide Database		8.909		Ë					~	8,909	
C3c + C&I DOER Assessment	20	97.530		H						97,530	
C3d - CAI EEAC Consulants	\$			۳		\$,		2		
C3e - C&I Sponsorthyps & Subscriptions	95	35.948	\$ 7,520	20 8		\$			S	41,468	
C3(- C&I Workforce Development	15	(4)	\$ 5.000	8		\$ 2	20.000		\$	25,000	
C3g - C&I R&D and Demonstration	S	4		-	70,000	ы	15.000	•	S	85.000	
GRAND TOTAL	*	2,884,524	\$ 963,964		\$ 33,915,558	50	9,646,823	\$ 1,888,424	*	49,299,295	
				١			l		ı	l	

	_				PA	PA Costs				-	PA Costs
Program	L	PPEA	Marketing	L	Incentives	L	STAT	EMV	Total PA Costs	-	Total PA Costs
A - Residential	•	311,198	\$ 124,546		\$ 4,153,276	**	1,191,674 \$	\$ 199,502	5	5,980,196	22.6%
A1 - Residental Whole House	\$	239,331	\$ 33.0	33.065 1	\$ 3.079,633	2	1.059.700	176,711 8	S	4,529,699	23.5%
Ala - Residental New Construction	s	6.495	so	859	87,466	s.	29,119	\$ 6.0	6,003 \$ 12	129,942	%9 B1
Alb - Residential Multi-Family Retrosit	2	10,985	2	1,452 3	5 43.178	~	19.519	\$ 11,878	<u>~</u>	87,012	872
AIC - Residential Home Energy Services - Measures	\$	194,350	\$ 26.	26,912 \$	2,912,938	N	481,459	\$ 86,960	S	1,702,620	24.3%
Ald - Residential Home Energy Services - RCS	2	24.458	\$	3.440 1	9	S	\$19,481	\$ 11.7	11,252 \$ 55	558,630	29 5%
Alle - Residential Behavior/Feedback Program	\$	1,043	8	402	\$ 36.050	'n	10,121	\$ 1.8	5 8 878,1	51,494	15.0%
\2 - Residential Products	\$	56,572	\$ 38,	38,696	855,533	•	105,293	\$ 81,531	59	137,625	27.55
A22 - Residental Heating & Cooling Equipment	s	28.623	2 2	7,328 3	131,090	S	18,964	\$ 19,646	~	117,652	16.2%
A2b - Residental Consumer Products	s	4.694	8	9.498	55.486	'n	24.034	\$ 41,389	s	135.100	32.3%
A2c - Residential Lighting	\$	23.255	\$ 210	21,870	\$66.957	s	42,295	\$ 28,496	s	674.872	26 4%
13 - Residential Hard-to-Measure	150	15.295	2	52.785	\$ 218,110	S	26,682	*	E 8	312,872	17.4%
A3a - Residential Statewide Marketing	-		\$ 33	33.996 :		5			89	33.996	30 3%
A3b - Residential Statewide Database	S.		\$		()	<u>~</u>			5	٠	20.0
A3c - Residental DOER Assessment	57		×	4		<u>~</u>	×		\$		200
A3d - Residental EEAC Consultants	-		·			<u>"</u>			S		X0:0
Ale - Residental Sponsorships & Subscriptions			\$			~			55		200
A3f - Residential HEAT Loan	ı	15,295	2	1177	\$ 218,110	~	19152	~	\$ 36	261.944	8661
A3g - Residential Worldorce Development	~		\$			w	1.52.1	-	\$	1,521	7.8%
A3h - Residental R&D and Demonstration	2	-	\$		3,0	s		•	\$,	200
A31 - Residential Education	\$	(4)	\$ 15.	15.412	\$	*		55	8	15.412	29.19
8 - Low-Income	100	57,450	\$ 16,4	14,470	\$ 471,033	55	112,278	\$ 39,950	*	285'49	¥11
B1 - Low-Income Whole House	57	50,375	\$ 6.3	8.825 \$	471,033	s	112,278	\$ 39,950	5	682,462	XC.E.
Bla - Low-Income Single Family Retrofit	\$	14,968	9 \$	6,126 1	214,548	~	54.038	\$ 79,536	s	339,215	11.2%
B1b - Low-Income Multi-Family Retrofit	s	15.408	\$ 24	1699	256.485	5	SB.240	10.11	\$	143,247	16.2%
82 - Low-Income Hard-to-Measure	55	7,075	\$ 7.	7.845		~	(A)		8	14,920	13.1%
82a - Low-Income Statewide Marketing	2		\$ 2.	7,845		×	*	2	S .	7.845	346%
B2b - Low-Income Statewide Database	s	4	*	4		S	2	\$	\$		200
B2c - Low-income DOER Assessment	*		\$	্		S.	38.	\$	٠ ٠		%0 O
82d - Low-income Energy Affordability Network	s	7,075	8	,	4	ş	7	2		7,075	15 2%
BZe - Law-Income Sponsorships & Subscriptions	2		\$		40	ç	360	\$	\$	٠	200
C - Commercial & Industrial	9	269,275	\$ 66,1	\$ 986,38	1,133,510	s	277,942 \$	865'99 \$	\$	1,013,719	10.1%
CI - CAI New Construction	2	23.941	2 2	2,401	69,644	**	53,852	\$ 5.5	5,567 \$ 15	155.425	13.1%
Cita - CAI New Buildings & Major Renovations	5	18,449	2	1.851	43.557	"	45,205	\$ 43	4,304 \$ 11	113,366	27.01
CIb - Cal Intal Purchase & End of Useful Life		5,492	~	550	26,087	**	8.647	\$ 1.2	1.263 55	42.059	11.9%
C2 - C&I Retrofit	S.	245,334	\$ 37.	37,378	1,063,875	47	221.654	\$ 61,011	-	.629,252	26.6
C22 - C21 Existing Building Retrofit	<u></u>	67.935	9	980	483.665	S.	50.786	\$ 15.5	15,598 \$ 62	624.865	86%
C2b - CMI Small Business	S	140.984	\$ 26.	26,127	376.819	\$7	119.070	\$ 35,374	2	698.375	9.1%
C2c - C&l Multifamily Retrofit	s	12.023	2	1.440	118.226	s	15.297	\$ 3.7	3,229 \$ 16	160,217	23.2%
C2d - C&I Upstream Lighting	5	24,392	\$ 2.	2.928	85.165	Ş	16,501	\$ 6.1	6.810 \$ 14	145.795	16.2%
3 - Cal Hard-to-Massura	2	*	\$ 26.		2	s	2.435	\$. \$	29.041	8.7%
C3s - C&I Statewide Marketing	S		\$ 23.	23.536	ä	5		\$	8 2	23.536	31 3%
C3b - C&I Statewide Database	s		\$,	(4)	\$	S	b.	200
C3c - CAI DOER Assessment	2	37	\$			**	35	\$	2		200
C3d - CA! EEAC Consultants	2	(18.)	\$	ī	2	w	¥.		5		200
C3e - C&! Spontorships & Subscriptions	s) T	3.071	9	'n			8	1.071	7 8
C3f - C&I Workforte Development	2	200	\$			~	2.435		s	2.435	×7.0
C3g - C&I R&D and Demonstration	\$		\$			2		\$. S		%0 O
CRAND TOTAL	*	637,923	\$ 267,662	_	\$ 5,757,827	99	1,501,094	306,050	50 \$ 8.491.296	206	17.23

DPU 11-120-A

(PAs guiding principles/guidelines)



- Addressed (Evaluation and Approval of Plans, and Reports):
- Funding, Budgets, Cost Effectiveness, Evaluation, Performance Incentives, Energy Efficiency Surcharge, Midterm Modifications, Reporting (Three-Year Term report and Plan-Year Reports)
- Plan Year report items to note
- cycles Cumulative present value is why PAs discount the second and third year costs and benefits back to the time the plan is approved. PAs then continue in 2016\$ for the rest of the planning and reporting the first year dollars. For example for the 16-18 plan, 2016\$ are used as that is the present value at
- Variances between planned and actual: budgets, lifetime savings, total benefits
- Refers to the Green Communities Act that energy efficiency programs spend a certain amount on low income programs (10 percent for electric PAs)

2017 Summary full snapshot



			Cape Li	Cape Light Compact 2017 Summary Results	017 Summary R	esults				
	PA Costs (2017\$) (aka Budget)	Participant Costs (2017\$)	Total Costs (2017\$)	PA Costs (2016\$) (aka Budget)	Participant Costs (2016\$)	Total Costs (2016\$)	Total Benefits (2016\$)	Annual MWh Savings	Lifetime MWh Savings	BCR
Planned				हैं स्वाप्त कि कि _{कि}	The section of the	100		Same of		8 8 0 0
Residential	\$22,558,347	\$4,813,157	\$27,371,504	\$27,371,504 \$21,999,558	\$4,693,931	\$26,693,489	\$4,693,931 \$26,693,489 \$ 61,650,073	18,921	201,747	2.31
Low-Income	\$4,460,916	\$0	\$4,460,916	\$4,350,415	\$0	\$4,350,415	\$4,350,415 \$ 11,084,297	1,750	18,219	2.55
C&I	\$15,216,941	\$5,153,556	\$20,370,497	\$14,840,005	\$5,025,898	\$19,865,903	\$19,865,903 \$ 57,506,827	37,138	331,257	2.89
Total	\$42,236,204	\$9,966,712	\$52,202,916	\$52,202,916 \$41,189,978	\$9,719,829	\$50,909,807	\$9,719,829 \$50,909,807 \$130,241,198	57,809	551,223	2.56
Actual		San Tall Tours	THE ROLL OF THE		A 14 15 18		A STATE OF THE STA	101 9 9		
Residential	\$22,125,001	\$6,940,749	\$29,065,750	\$29,065,750 \$21,576,946	\$6,768,821	\$28,345,767	\$6,768,821 \$28,345,767 \$ 63,555,689	33,952	278,956	2.24
Low-income	\$2,828,292	\$	\$2,828,292	\$2,758,233	\$o	\$2,758,233	\$2,758,233 \$ 5,226,385	1,888	16,039	1.89
C&I	\$9,148,015	\$3,489,685	\$12,637,701	\$8,921,411	\$3,403,243	\$12,324,654	\$12,324,654 \$ 29,771,431	13,645	171,504	2.42
Total	\$34,101,308	\$34,101,308 \$10,430,435	\$44,531,743	\$44,531,743 \$33,256,590 \$10,172,064 \$43,428,654 \$ 98,553,505	\$10,172,064	\$43,428,654	\$ 98,553,505	49,484	466,498	2.27

A 2017 report with 2016 costs?

of its benefits, defined in § 3.4.4, below, are equal to or greater than the cumulative present value of its costs, defined in § 3.4.5, below." PAs look to DPU guidelines: DPU 11-120-A "An Energy Efficiency Program shall be deemed cost-effective if the cumulative present value

continue in 2016\$ for the rest of the planning and reporting cycles. 2016 dollars. PAs put the planned numbers into 2016\$ because that's the present value at the time the plan is approved. PAs then The cumulative present value or sometimes called net present value (NPV) is why we discount 2017 and 2018 costs and benefits back to

- Cost effectiveness is determined using a Total Resource Cost (TRC) Test
- 2. TRC Test calculates a benefit cost ratio (BCR)
- 3. BCR = ratio of total benefits and total costs. To calculate the BCR, you must take the Total Benefits in 2016\$ divided by the Total Costs in 2016\$
- 4. Total Benefits = value of the savings from program participation (electric benefits, natural gas benefits, and other resource benefits)
- Total Costs = all costs to the PA and the Participant that result from the program

What goes into a measure?



- Measure summary
- Measure name, reference #, sector, PA specific or Statewide, description
- Measure overview
- Measure ID, name, end-use, electric or gas PA, PA, program, sector
- Savings
- General (baseline, high efficiency, calculation method), electric (gross annual kW and kWh, summer/winter coincidence factors), non-electric (gross annual gas MMBtu), water
- Measure life
- Non-Energy impacts
- Impact Factors
- In-Service Rate, Savings Persistence Factor, Realization Rate, Summer/Winter Peak Demand Coincidence Factors
- Net-to-gross
- Free Ridership, Spillover, Net-to-Gross
- Flows from Technical Reference Manual into the Benefit Cost Model

used to determine cost effectiveness **Total Resource Costs**



Benefit Cost Ratio (BCR) = Total benefits \$ / Total costs \$

- PAs look to make sure the BCR is ≥ 1.0 which is considered cost effective (benefits exceed costs)
- Benefits include
- Electric Savings, Avoided Costs (Electricity Generation and Water/Sewer Costs, Reduced Lighting/Equipment Maintenance Savings (Oil, Natural Gas, Propane)), Non-Energy Impacts (Reduced Increased Property Value) Transmission), Non-Electric Impacts, Non-Electric Benefits (Fuel
- Costs include
- Program implementation costs (PP&A, Marketing, Incentive, STAT, costs (incremental costs or total costs) EM&V), Performance incentives (CLC does not claim PI), Participant

Cape Light Compact JPE 2017 Plan Year Report Update

July 11, 2018



2017 Summary Results



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	2017			
	(aka Budget) Total Costs	Total Costs	Total Benefits	BCR
Planned				
Residential	\$22,558,347	\$26,693,489	\$61,650,073	2.31
Low-Income	\$4,460,916	\$4,350,415	\$11,084,297	2.55
C&I	\$15,216,941	\$19,865,903	\$57,506,827	2.89
Total	\$42,236,204	\$42,236,204 \$50,909,807	\$130,241,198	2.56
Actual				
Residential	\$22,125,001	\$28,345,767	\$63,555,689	2.24
Low-Income	\$2,828,292	\$2,758,233	\$5,226,385	1.89
C&I	\$9,148,015	\$12,324,654	\$29,771,431	2.42
Total	\$34,101,308	\$34,101,308 \$43,428,654	\$98,553,505	2.27

^{1.} Cost effectiveness is determined using a Total Resource Cost (TRC) Test

^{2.} TRC Test calculates a benefit cost ratio (BCR)

BCR = ratio of total benefits and total costs.

^{4.} Total Benefits = value of the savings from program participation (electric benefits, natural gas benefits, and other resource benefits)

^{5.} Total Costs = all costs to the PA and the Participant that result from the program

2017 Electric PA Comparison



	2017 Electric PA Comparison	A Comparison		
		Actuals	uals	
	CLC	Eversource	Nationalgrid	Unitil
Expenditures 2017	\$34M	\$259M	\$272M	\$4.2M
Total Costs	\$43.4M	\$356.5M	413.1M	\$5.86M
Total Benefits	\$98.5M	\$1.015B	\$935.8M	\$13.8M
Annual Savings (MWh)	49k	707k	724k	7k
Lifetime Savings (MWh)	467k	7.4M	6.5M	71k
Portfolio BCR	2.27	2.85	2.27	2.35

Total Costs and Benefits have been rounded

2019-2021 Energy Efficiency Plan Cape Light Compact JPE **Updates**

July 11, 2018



New Residential Enhancements



- energy efficiency measures/upgrades for Proposed new offer: \$5,000 grant to be used for organizations (public and non-profit) that recruit 100 residents that complete Home Energy Assessments (HEA) in any one year (\$50 head fee)
- Should CLC provide incentive for HEA only or require implementation of a measure(s)?
- Opower
- Is interested in working with the Compact and is putting together a price proposal
- Would the Board like to move forward?

Residential and C&I Enhancements



Residential

- Continue with cost effective no cap insulation offer for residential customers
- Continue offering 100% insulation incentives to our renter and moderate income customers
- Continue to explore ways to serve our hard-to-reach customers

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- Continue enhanced incentives for:
- Municipal
- Non-profits
- Year-round tenants
- Oil, propane and unregulated fuels
- "Main Streets"

Demand Management - Storage



- Small Scale Battery Storage for Residential and Small Commercial Customers
- Proposed to focus mostly on residential and small generation (DG) such as solar and wind commercial customers who have installed distributed
- Modeled after existing utility programs (e.g., Unitil and Green Mountain Power)
- Objective is to reduce system and local peak demand

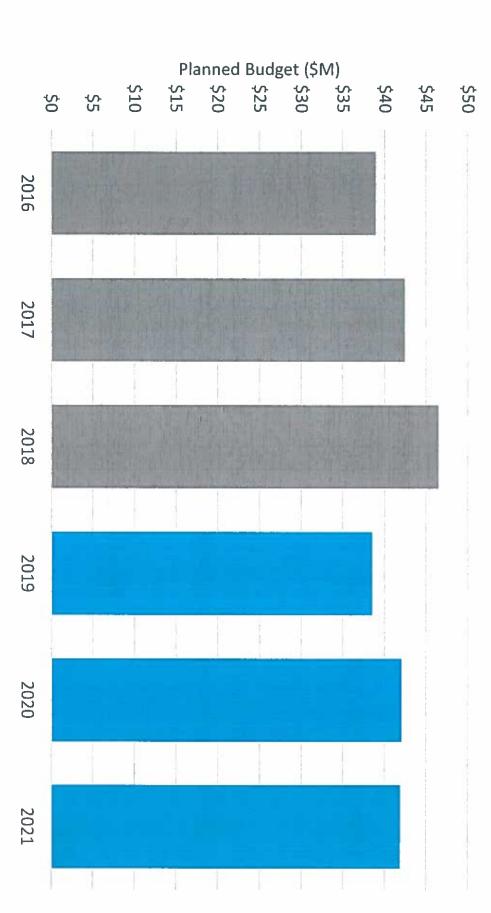
Demand Management



- Residential Demand Management
- Connected devices
- R&D funds to explore potential for load management through connected devices (e.g., plug load controllers, pool pumps, smart lighting, etc.)
- Behavioral
- Continue to explore a home energy report model (e.g. OPower)
- C&I Demand Management
- Thermal Storage
- Shifts air conditioning load to off-peak hours
- Pay-for-performance load curtailment

Efficiency Budget: \$122,671,330 Proposed 2019-2021 Energy





Budgets shown include Demand Response (Behavior and Active Demand). 2016-2018 are Planned values only, no actuals

the October 31 Filing Next Steps as CLC heads towards



- July 31st, Program Administrators (PAs) will receive approval or Council (EEAC) comments on the April plan from the Energy Efficiency Advisory
- September 17th (date is still being negotiated) 2nd draft of Plan will be submitted sometime between August 31st and
- MA DOER and PAs negotiate PA specific budgets and savings goals (Term Sheet)
- Savings Goals Late September — Early October CLC Board approves Final Budget and
- Early October EEAC Resolution should be issued
- October 31st, plan filed with the DPU
- November December:
- discovery, hearings
- ' January:
- Briefs
- January 29th, DPU will issue its order on the 2019-2021 Three Year Plan

Eversource Rate Case Compliance Update



Cape Light Compact Board Meeting

Presented by: Jeffrey M. Bernstein, Esq. 7/11/2018



Compliance Update - Overview **Eversource Rate Case**

- MMRC Education and Outreach Plan ("E&O Plan")
- D.P.U. 18-50, Performance-Based Metrics
- Pending Rate Case Appeal of MMRC
- DPU has not yet opened generic investigation on commenced street light stakeholder group. contribution in aid of construction ("CAIC") or



MMRC Education & Outreach Plan

(1 of 2)

4/25: Eversource held stakeholder meeting

5/25: Eversource filed draft E&O Plan.

6/1: CLC sent comments to Eversource on draft E&O Plan



(2 of 2)**MMRC Education & Outreach Plan**

DPU 6/8: Eversource filed final E&O Plan with

edits. Eversource added reference to CLC as the PA on Cape Cod and Martha's Vineyard and a few other minor

7/13: Comments due to DPU



D.P.U. 18-50: Metrics Proceeding Overview

- CLC recently filed to be a participant in proceeding.
- Adjudicatory proceeding
- Discovery now rolling. CLC will file interrogatories soon.
- Hearings anticipated in October.



D.P.U. 18-50: Metrics Three CLC Issues

- 1) Peak Demand Reduction Metrics: The DPU should ensure that ratepayers paying twice peak demand reduction). Demand reduction is not duplicated through Performance Metrics (i.e. Eversource's Energy Efficiency Plan Performance Incentive (PI) for Peak
- 2) Peak Demand Reduction and Climate Change Adaptation Metrics: help Eversource achieve Peak Demand Reduction and Climate Change towards one, or both, of these metrics Adaptation metrics, Eversource should be able to count these efforts If Eversource participates with another PA, or a third party vendor, to
- 3) Climate Adaptation Metric: Add a new goal of 25% conversion of municipalities that have purchased their streetlights and converted them Vineyard). to LEDs (i.e. Boston, Dartmouth, New Bedford, Cape Cod and Martha's privately-owned streetlights from HPS to LED with a focus on



Next Steps

- MMRC E&O Plan: comments due 7/13/18.
- Metrics, D.P.U. 18-50: file interrogatories.
- Other Rate Case Proceedings
- Rate Case Appeal Pending: waiting for DPU to certify record to the court
- > Preparing Amicus Brief