# <u>Liberty ENNG Rate Case – Compliance Items</u>

Docket	Compliance Requirement	Docket No. DG 20-105 Initial Filing Cross Reference
DG 19-161	Secretarial Letter (2/28/2020)	Mullen Testimony, Att. SEM-2
2019 Rate Case	<ul> <li>Item 1: "In Order No. 25,987 (concerning expansion of gas service in to Pelham and Windham) the Commission approved a risk sharing mechanism requiring Liberty to absorb one half of a Pelham revenue shortfall in its first rate case after commencing service, based on a comparison of the anticipated average annual revenue requirement and an updated actual average annual revenue requirement."</li> <li>"Liberty must include in its initial filing of its next rate case all the information required to be filed by Order No. 25,987, including but not limited to, a revenue requirement calculation that includes an adjustment, if applicable, as outlined in the Settlement Agreement approved in that Order, and detailed supporting schedules as required by that Settlement Agreement."</li> </ul>	Rev. Req. Schedule EN-RR-3-1
	Secretarial Letter (2/28/2020) <a href="https://example.com/letter-number-12">Item 2</a> : Consistent with Order No. 26,122, Liberty must also include in its next initial rate case filing:  • an analysis of Liberty's depreciation reserve imbalance (Order No. 26, 122 at 18).	Mullen Testimony, Att. SEM-3
	Secretarial Letter (2/28/2020)  Item 2: Consistent with Order No. 26,122, Liberty must also include in its next initial rate case filing:  • the information necessary to permit the Commission to evaluate the impact of decoupling (Order No. 26,122 at 46).	<ul> <li>Mullen Testimony</li> <li>Atts. SEM-4, SEM-5, SEM-6, SEM-7</li> </ul>
	the information necessary to permit the commission to evaluate the impact of decoupling (order No. 20,122 at 40).	
	Secretarial Letter (2/28/2020) <a href="Item-2">Item 2</a> : Consistent with Order No. 26,122, Liberty must also include in its next initial rate case filing:  • an analysis of Liberty's investment in its iNATGAS facility similar to Exhibit 46 in DG 17-048, in sufficient detail, to allow the Commission to evaluate the investment and its impacts on firm customers.	Clark/Stevens Testimony
	Secretarial Letter (2/28/2020)  Item 2: "Consistent with Order No. 26,122, Liberty must also include in its next initial rate case filing:  • a reduction to Liberty's proposed revenue requirement by 50 percent of any revenue shortfall for the first phase of the Keene CNG/LNG conversion.	Mullen Testimony (project has not progressed to that point)

Docket	Compliance Requirement	Docket No. DG 20-105 Initial Filing Cross Reference
	Secretarial Letter (2/28/2020)  Item 3: Order No 26, 122 also established a number of adjustments to be included in Liberty's revenue requirement calculations. In its next rate case filing, Liberty's revenue requirement calculation must include adjustments for each item specifically adopted in Order 26,122 (or an explanation as to the change in circumstance that obviates the need for specific adjustments). Those adjustments include:	Simek/Sosnick Testimony (Perm)
	<ul> <li>Year-End Customer Count vs. Average Customer Count (Order No. 26, 122 at 1 O);</li> </ul>	
	<ul> <li>A payroll calculation that reflects a representative level of vacancies (Order No, 26, 122 at</li> </ul>	
	11 ); and	
	Severance Pay (Order No. 26, 122 at 13).	
	<ul> <li>Secretarial Letter (2/28/2020) at 2:</li> <li>"Liberty's next rate petition should also include in its initial filing updated indirect gas costs with supporting testimony and schedules."</li> <li>"In addition, the initial filing should identify and explain all non-supply costs to be recovered through the Keene cost of gas."</li> </ul>	<ul> <li>Sosnick Testimony (Functional Cost of Service Study)</li> <li>Simek/Sosnick Testimony (Perm)</li> </ul>
	Secretarial Letter (2/28/2020) at 2: "Finally, at the prehearing conference, Staff and the Office of the Consumer Advocate stated that a calendar year test year is preferable to a split-year test-year because it aligns with the Company's Annual Report to the PUC, Form F-16. The Commission found those statements persuasive and thus recommends Liberty use a calendar year in its next filed rate case. If it chooses not to do so, the Company must provide all supporting information in the format of a Form F-16 Annual Report."	Not applicable: No split-year test year.

Docket	Compliance Requirement	Initial Filing Cross Reference
DG 17-048 2017 Rate Case	<ul> <li>Order No. 26,122 (Apr. 27, 2018):</li> <li>Depreciation – Amortization of Reserve Deficiency: "Thus, we approve a six-year amortization period of the existing test year-end balance and direct the Company to prepare and present in its next rate case, a review of the reserve imbalance, a thorough explanation of the cause of any imbalance, and a proposal for amortizing that reserve imbalance." <a href="Id">Id</a>. at 18.</li> </ul>	<ul><li>Mullen Testimony</li><li>Att. SEM-3</li></ul>
	Order No. 26, 122 (Apr. 27, 2018):  Revenue Requirement Adjustments:  Customer count. Id. at 10  Employee vacancies. Id. at 11  Severance pay. Id. at 13.	Simek/Sosnick Testimony (Perm)
	<ul> <li>Order No. 26,122 (Apr. 27, 2018):         <ul> <li>Rate Base – iNATGAS: "Nevertheless, the plant has been built and, for purposes of the base rates set in this case, we will allow recovery of the plant up to the level of costs presented in DG 14-091 (\$2,245,000) plus related O&amp;M expense. We will re-evaluate this investment in Liberty's next rate case and may consider putting more of the investment in rate base at that time. The remedy fashioned here will put ratepayers in the position they were in when this project was approved." <a href="Id">Id</a>. at 31-32.</li> </ul> </li> </ul>	Clark/Stevens Testimony
	<ul> <li>Order No. 26,122 (Apr. 27, 2018):</li> <li>Keene: Commission permits the consolidation of Keene Division distribution rates with those of EnergyNorth subject to conditions, including:         <ul> <li>"Liberty must reduce its revenue requirement by 50 percent of any revenue shortfall in the first distribution rate case filed within five years following construction of each Phase and by 100 percent of any revenue shortfall in the second distribution rate case filed within the five years following the construction of each Phase." <u>Id</u>. at 39.</li> <li>Revenue requirement to include both production and distribution costs. <u>Id</u>.</li> <li>Direct cost of Keene system shall be recovered in rates to all distribution customers. <u>Id</u>.</li> <li>Customer commitment requirements. <u>Id</u>.</li> <li>Liberty to file updated DCF analyses at the in-service date of each phase and annually. Id. at 40.</li> </ul> </li> </ul>	Simek/Sosnick Testimony (Perm)     Sosnick Testimony (Functional Cost of Service Study)     (Not all items are applicable at this time)

Docket	Compliance Requirement	Initial Filing Cross Reference
	<ul> <li>Order No. 26,122 (Apr. 27, 2018):         <ul> <li>Decoupling: "Further, to assist the Commission in evaluating Liberty's decoupling, we require the Company to report in its next rate case on the following: (1) the amount of revenue collected or passed back through this mechanism, by year; (2) an account of any measurable impacts decoupling had on Liberty's utility sponsored energy efficiency programs; (3) a detailed list of all efforts the Company made to promote its own energy efficiency programs, and to promote other energy efficiency measures such as lobbying for stricter building/energy codes; (4) an account of efforts taken to educate builders about energy efficiency; (5) a detailed list of meetings with state and local officials and associations to promote energy efficiency; (6) customer feedback resulting from decoupling as implemented through the rate design; and (7) any changes in the Company's credit rating.</li> </ul> </li> </ul>	<ul> <li>Mullen Testimony</li> <li>Atts. SEM-4, SEM-5, SEM-6, SEM-7</li> </ul>
	The above list is not intended to be exhaustive. In short, we require the Company to demonstrate that decoupling has allowed the Company to 'remain an effective champion of energy efficiency" and has unlocked its "ability to enthusiastically support energy efficiency policy goals." <u>Id</u> . at 46.	
	Order No. 26,122 (Apr. 27, 2018):  Test Year: Liberty shall file its next distribution rate case using a test year ending no later than December 31, 2020, and that rate case shall include a report on the effects of decoupling as detailed in the order. Id. at 56.	Mullen Testimony
	Order No. 26,156 (July 10, 2018):  • As suggested by Staff, we require that Liberty, in its next rate case, clearly explain how each piece of software is assigned an A[verage]S[ervice]L[ife]. Id. at 7	Mullen Testimony

Docket	Compliance Requirement	Initial Filing Cross Reference
DG 17-068  Keene Declaratory Ruling re CNG/LNG	<ul> <li>Order No. 26,274 (July 26, 2019) (order on affirming/clarifying declaratory ruling):</li> <li>"We note that Puc 503.04(a) requires gas utilities to 'provide certain services to its customers when service conditions such as change in pressure or composition of gas affect or would affect efficiency of operation or adjustment of appliances." Puc 503.04(b) further requires that if any such change occurs, the 'utility shall, without undue delay and without charge, inspect the appliances of its customers and, if necessary, readjust those appliances for the new conditions." Based on the Staff Assessment, it appears that these provisions will apply to the Keene system conversion, and we direct Liberty to address these rules when it seeks to recover Keene conversion costs from ratepayers." Id. at 11.</li> <li>"In addition, in accordance with the directives set forth in Order No. 26,122, Liberty must provide updated discounted cash flows (DCFs) based on detailed engineering plans and customer commitments that will produce at least 50% of the revenue requirement associated with the new facilities prior to the initiation of construction of each conversion phase." Id. at 13.</li> </ul>	Not applicable at this time.
	<ul> <li>Order No. 26,294 (Sept. 25, 2019) (order on rehearing):</li> <li>"We clarify that before initiation of construction for each phase of the Keene system conversion/expansion, Order No. 26,122 requires Liberty to file a detailed report of its business plan. The business plan shall include all conversion/expansion project costs, as well as detailed projected cost estimates for all conversion/expansion projects to be included in the revenue requirement analysis required as part of the risk-sharing mechanism. The business plan must be supported by updated DCF analyses based on detailed engineering plans and customer commitments that will produce at least 50 percent of the revenue requirement associated with the new facilities. As established in DG 17-048, such DCF analyses are the first step in gaining approval for each phase of the conversion/expansion and will be used to demonstrate that Liberty's New Hampshire ratepayers are not burdened with unfair or unwarranted costs." Id. at 14.</li> </ul>	Not applicable at this time

Docket	Compliance Requirement	Initial Filing Cross Reference
NHDAS 8	Order No. 26,018 (May 15, 2017), at 4: Liberty shall "notify the Commission if its costs related to this special contract exceed \$2,725,000, and if a contract amendment is necessary and denied, an explanation of the Company's plans in light of the denial, and the expected impact on boiler operations, cost, and cost recovery."	Clark/Stevens Testimony

Docket	Compliance Requirement	Initial Filing Cross Reference
DG 15-362  Franchise Approval in Pelham and Windham	Order No. 25,987 (Feb. 8, 2017), at 4 (Settlement Agreement Condition #4): "Liberty would recover the costs incurred to construct a take station off of the TGP Concord Lateral in Pelham through its distribution rates as part of a rate case. These costs would be amortized over 10 years, including a pre-tax return, based on the Commission-approved capital structure and cost of capital for Liberty."	<ul> <li>Mullen Testimony</li> <li>Att. SEM-1</li> <li>Rev. Req. Schedules EN-RR-3-1</li> </ul>
	Order No. 25,987 (Feb. 8, 2017), at 4 (Settlement Agreement Condition #5): "As a 'risk-sharing' provision Liberty would reduce its revenue deficiency in any rate case filed within five years of the in-service date of Phase 1 of the Pelham build-out as follows (as demonstrated in Appendix B of the Settlement Agreement):  a. In the first rate case any revenue deficiency between the anticipated average annual revenue from Pelham customers over the three years following implementation of permanent rates, and the average annual revenue requirement over the same period of the Pelham construction costs and amortization of the Pelham TGP take station, would be reduced by one half. If a second rate case is filed within the five year period, the amount of the reduction to the revenue deficiency would be the full difference between the anticipated Pelham revenue requirement and projected revenues  b. For purposes of the risk-sharing provision, costs would include actual direct capital costs to date, the Pelham take station amortization expense, and projected direct capital costs for system reinforcement and customer growth to serve Pelham  c. For purposes of the risk-sharing provision, anticipated revenue would include committed revenue plus Estimated Annual Margin as defined in Liberty's main extension provision in its tariff  d. The risk-sharing provision would terminate if average annual revenue exceeds average annual revenue requirement.  e. Liberty would file annual updated Pelham and Windham Discounted Cash Flow ("DCF") analyses in January of each year following the first full year of commencement of service until the projects achieve a positive annual return, but for no less than three years, and for no more than five years (as demonstrated in Appendix C of the Settlement Agreement) "	Mullen Testimony

							Pelham	DCF Analy	∕sis as of Ju	ıne 2020								
Camital C	>==+/= T:	alea Chatia	- Dh	IA O ID O	Dile		<b>#4.649.600</b>	D: 10 1				Require	d Return (Reques	ted Cost of C	apital)			
One time	payment	to TGP to ore tax) Ra	build Tal	es IA & IB & ke Station & Take Stat years)			\$1,612,698 \$1,206,028.00 8.50% (\$183,808)	Direct Costs				Equity Debt	Ratio 49.20% 50.80%	Rate 9.30% 4.38%	Pre-tax 12.75% 4.38%	-		
Net Pres	ent Value	(Delta yrs	1-10 & 9	.35% discou	unt rate)		(\$859,770)					Dept	30.80 %	4.36 %	4.30%	8.50%		
	IRS	IRS		Delta		=	Accumulated			\$19.37			Take Station		Projected	Delta		Risk
		MACRS	Book	Book	Tax	Deferred	Deferred	Rate	Required	Property			Amortization of	Revenue	Revenues	Rev Reg		Sharing
Year	Rates	Table	Depr	less Tax	Rate	Inc Tax	Inc Tax	Base	Return	Tax	Insurance	O&M	Initial Payment			•	(	Calculation
			-					1,612,698					<u> </u>					
1	5	80,635	40,317	(40,317)	27.08%	(10,918)	(10,918)	1,561,463	\$134,902	\$31,238	\$2,761	\$4,470	\$183,808	\$397,496	\$242,261	(\$155,235)		
2		153,206	40,317	(112,889)		, , ,	, , ,		\$129,712	. ,	\$2,761	\$4,582	\$183,808	\$391,425	\$242,261	(\$149,164)		
3		137,886	40,317	,		(26,421)	, ,		\$123,862		\$2,761	\$4,696	\$183,808	\$384,318	\$242,261	(\$142,057)		
4		124,178	40,317	, ,		(22,709)	, ,		. ,		\$2,761	\$4,814	\$183,808	\$377,627	\$242,261	(\$135,366)		(\$135,366)
5		111,760	40,317	, ,		(19,347)	, ,		\$113,133		\$2,761	\$4,934	\$183,808	\$371,312	\$242,261	(\$129,051)		(\$129,051)
6		100,471	40,317	,		(16,290)	, ,		\$108,192		\$2,761	\$5,057	\$183,808	\$365,339	\$242,261	(\$123,078)	–	(\$123,078)
/	5.9	,	40,317	, ,		(14,848)	, ,	1,189,372	\$103,441	\$24,107	\$2,761	\$5,184	\$183,808	\$359,618	\$242,261	(\$117,357)	Total	(\$387,495)
8	5.9	95,149	40,317	, ,		(14,848)	, , ,	1,134,206	\$98,752		\$2,761	\$5,313	\$183,808	\$353,990	\$242,261	(\$111,729)	A	(\$400.405)
9 10	5.91 5.9	95,310 95,149	40,317 40,317	, ,		(14,892) (14,848)	(170,844) (185,693)		\$94,061 \$89,370	\$21,970	\$2,761 \$2,761	\$5,446 \$5,582	\$183,808 \$183,808	\$348,363 \$342,739	\$242,261 \$242,261	(\$106,102) (\$100,478)	Average	(\$129,165)
10	3.9	33,143	+0,517	(34,032)	21.0070	(14,040)	(100,090)	1,020,001	ΨΟΘ,ΟΙΟ	Ψ20,900	Ψ2,701	ψυ,υυΖ	ψ100,000	Ψ0π2,70θ	ΨΖ-ΤΖ,ΖΟ Ι	(ψ100,470)	@ 50%_	(\$64,583)



# MANAGEMENT APPLICATIONS CONSULTING, INC.

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# **MEMO**

**D**ATE: July 20, 2020

TO: Steve Mullen, Liberty Utilities FROM: Paul Normand and Marcy Stefan

SUBJECT: Review of Reserve Variance Deficiency for Liberty Depreciable Gas Plant

At Liberty's request, MAC has reviewed the growth in the Company's plant as it relates to depreciable plant with the goal of quantifying the change in reserve imbalances since the Company's last depreciation study. In evaluating the change in plant balances as ordered in the last rate case, this creates a very complicated process of identifying any change by specific plant account. Since the 2016 period of time, many plant balances have been reclassified to comply with the New Hampshire Public Utility Commission's Staff audit, and we have derived the following detail comparisons by category with which to quantify the growth in the reserve imbalance:

<u>TABLE 1</u>
Historical Plant Balances and Net Salvage

					SCHEDULE A 2016						
ACCOUNT / DESCRIPTION	PLANT BALANCE @12/31/2016	PLANT BALANCE @12/31/2019	DIFFERENCE (PLANT INCREASE)	% INCREASE IN PLANT	THEO. RSV WITH NET SALVAGE @12/31/2016	BOOK RSV @12/31/2016	RESERVE VARIANCE @12/31/2016				
367.00 Mains (UNDER CURRE)	\$234,672,697 NT 367 & 376)	316,221,089	81,548,392	34.75%	63,315,172	54,187,131	9,128,041				
380.00 Services	\$146,720,226	187,120,798	40,400,572	27.54%	68,883,816	66,714,617	2,169,199				
TOTAL DEPREC G	AS PLANT										
	477,852,305	631,074,215	153,221,910	32.06%	165,193,965	155,247,187	9,946,778				

Note: Mains account was Account 367 @ 12/31/2016

Note: Mains account was Account 367 @ 12/31/2016						
	WITH NET SALVAGE		RESERVE VARIANCE @12/31/2019			
367.00 Mains	3,904,396	404,274	3,500,122			
376.00 Mains	72,758,459	60,928,702	11,829,757			
380.00 Services	84,274,853	83,285,975	988,878			
TOTAL DEPREC GAS PLANT	\$205,106,324	188,750,655	\$16,355,669			

Note: Mains account split into 367 & 376 @ 12/31/2019

Note: See Attachments A (2016) and B (2019)

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TABLE 2
Historical Cost of Removal

DATE	\$ COST OF REMOVAL	ACCUMULATED \$ COST OF REMOVAL
@12/31/2012	573.53	573.53
@12/31/2013	1,502,866.45	1,503,439.98
@12/31/2014	1,604,008.61	3,107,448.59
@12/31/2015	1,504,536.59	4,611,985.18
@12/31/2016	1,736,434.75	6,348,419.93
@12/31/2017	2,527,346.53	8,866,047.53
@12/31/2018	2,843,715.44	11,709,762.97
@12/31/2019	3,738,897.19	15,448,660.16

Note: The Cost of Removal relates to the following work types:

- 1. Relay Main
- 2. Main Replacement
- 3. Relay service
- 4. Service Relocation
- 5. Service Replacement

Two key aspects of the Company's reserve variance growth are with respect to the replacement/retirement of large quantities of mains and services and the potential change in average service life (ASL) of depreciable assets. The first key element relating to ASL has to do with the potential increase to the life once new additions are factored into any life analyses. Based on experience and the Company's historical growth data, we would expect that a new study would derive longer service lives for both mains and services which would impact the resulting reserve variance. The second key element recognized annually is the cost of removal portion of the Company's plant replacement activities. It is this portion of costs that the Company has historically been estimating as a blanket 10% of investments in major plant accounts. In understanding this process, large growth in plant investments which has been occurring for many years, especially for key plant accounts related to mains and services, results in large amounts of unrecovered dollars being identified but not recovered in the short term.

Historically, we have observed that some utilities had periodically used a flat 10% estimate for cost of removal as a proxy to the more detailed and laborious efforts required to quantify these amounts which are primarily labor related. In the last ten years, the rapid increase in plant replacement/retirement requirements had, in many cases, resulted in a more detailed review of these costs (COR) which has resulted in being modified to reflect a much lower 3 to 5% range of costs to new plant investments. The cost areas typically considered are with respect to digging a trench, cutting and purging pipe, capping, resurfacing and flaggers/police. Again, the growth in

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these costs has been a direct result of a much higher frequency of retirement/replacement occurring for gas plant.

Based on our review of the available data (Tables 1 and 2), we offer the following recommendations to consider for the future plant activities of the Company's depreciable plant accounts:

- 1. Continue to record and document the Company's 10% COR by plant account.
- 2. In order to evaluate the current level of COR, a detailed effort coordinated between engineering (field) and accounting be undertaken for all major plant activity with respect to identifying/estimating activities relating solely to COR (plant and labor associated with activities). This should consider various types of projects where one can balance small and large projects to achieve an outcome to compare with the current 10% estimated level.
- 3. Once in place, consider maintaining this process going forwards to ensure that the new proposed levels are supportable.
- 4. The efforts surrounding the application of Items 1-3, above, should be undertaken as soon as possible such that the results will be available to influence the Company's next depreciation study.
- 5. Recommend that a new depreciation study be undertaken with the calendar year 2020 data included to ascertain if the life analyses support a longer average service life for any accounts. This should be prepared in early 2021 to provide you with immediate information as to the possible impact along with the technical support to possibly suspend the current allowed annual recovery of the shortfall.

#### LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORPORATION SCHEDULE OF DEPRECIATION ACCRUAL RATES @12/31/16 WHOLE LIFE SCHEDULE WITH RESERVE VARIANCE

#### SCHEDULE A

				- '											
FERC ACCOUNT	DESCRIPTION	PLANT	DISP	ASL	ACCRUAL	ACCRUAL	NET	SALV.	ACCRUAL	ACCRUAL	THEO. RSV.	THEO. RSV.	BOOK RSV.	RESERVE	COR
NUMBER	DESCRIPTION	BALANCE	TYPE	ASL	RATE W/O	WITHOUT	SALV.	FACTOR	RATE W/	WITH	WITHOUT	WITH	@12/31/16	VARIANCE	RATE
NUMBER		@12/31/16	TYPE		NET SALV.	NET SALV.	SALV.	FACTOR	NET SALV.	NET SALV.	NET SALV.	NET SALV.	@12/31/16	VARIANCE	%
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
303.00 CAPITALIZ	ZED SOFTWARE	14,745,889	S 4.0	6.2	16.13	2,378,512	0	1.00	16.13	2,378,512	5,708,940	5,708,940	4,975,703	733,237	0.00
	TION PLANT														
	JRES AND IMPROVEMENTS	1,975,163	R 1.0	35.0	2.86	56,490	0	1.00	2.86	56,490	818,047	818,047	1,374,447	-556,400	0.00
311.00 LP GAS E		258,481	R 1.0	35.0	2.86	7,393	0	1.00	2.86	7,393	59,141	59,141	63,766	-4,625	0.00
320.00 OTHER E		2,556,209	R 1.0	35.0	2.86	73,108	0	1.00	2.86	73,108	357,489	357,489	364,891	-7,402	0.00
	QUIPMENT-PRODUCTION	8,777,306	R 1.0	35.0	2.86	251,031	0	1.00	2.86	251,031	4,967,873	4,967,873	7,765,237	-2,797,364	0.00
TOTAL DE	EPREC. PRODUCTION PLANT	13,567,159		35.0	2.86	388,021			2.86	388,021	6,202,550	6,202,550	9,568,341	-3,365,791	
STORAGE		57.045		05.0							40.074	40.074	0.470		
	JRES AND IMPROVEMENTS-LNG	57,345	R 1.0	35.0	2.86	1,640		1.00	2.86	1,640	13,371	13,371	9,179	4,192	0.00
363.50 OTHER EC	QUIPMENT-LNG EPREC. STORAGE PLANT	<u>7,646</u>	R 1.0	35.0 35.0	2.86	<u>219</u>	0	1.00	2.86	219	<u>1,783</u> 15,154	1,783	1,560 10,739	<u>223</u> 4,415	0.00
TOTAL DE	EPREC. STORAGE PLANT	64,991		35.0	2.86	1,859			2.86	1,859	15,154	15,154	10,739	4,415	
	ISSION PLANT JRES AND IMPROVEMENTS	269,809	R 1.0	35.0	2.86	7,717	0	1.00	2.86	7,717	119,856	119,856	177,630	-57,774	0.00
	JRES AND IMPROVEMENTS-OTHER	353,851	R 1.0	35.0	2.86	10,120	0	1.00	2.86	10,120	192,816	192,816	278,219	-85,403	0.00
367.00 MAINS	SKEO AND IMI NOVEMENTO-OTTEN	234,672,697	R 3.0	60.0	1.67	3,919,034	-15	1.15	1.92	4,505,716	55,056,671	63,315,172	54,187,131	9,128,041	0.25
	ING AND REGULATING STATION EQUIP.	4,909,208	S 4.0	35.0	2.86	140,403	0	1.00	2.86	140,403	1,782,000	1,782,000	1,889,616	-107,616	0.00
	EPREC. TRANSMISSION PLANT	240,205,565		59.0	1.70	4,077,274	-		1.94	4,663,956	57,151,343	65,409,844	56,532,596	8,877,248	
DISTRIBU	JTION PLANT														
380.00 SERVICES	S	146,720,226	R 4.0	45.0	2.22	3,257,189	-60	1.60	3.55	5,208,568	43,052,385	68,883,816	66,714,617	2,169,199	1.33
381.00 METERS		14,628,345	R 3.0	32.0	3.13	457,867	0	1.00	3.13	457,867	6,058,054	6,058,054	7,838,363	-1,780,309	0.00
381.10 METERS-I	INSTRUMENT	188,398	R 3.0	32.0	3.13	5,897	0	1.00	3.13	5,897	46,943	46,943	31,378	15,565	0.00
381.20 METERS-I		5,647,769	SQ	15.0	6.67	376,706	0	1.00	6.67	376,706	4,689,816	4,689,816	2,073,245	2,616,571	0.00
382.00 METER IN		14,360,005	R 3.0	32.0	3.13	449,468	0	1.00	3.13	449,468	3,013,872	3,013,872	2,510,354	503,518	0.00
387.00 OTHER E		908,013	S 6.0	19.0	5.26	47,761	0	1.00	5.26	47,761	410,276	410,276	339,112	71,164	0.00
TOTAL DE	EPREC. DISTRIBUTION PLANT	182,452,756		39.7	2.52	4,594,889			3.59	6,546,268	57,271,346	83,102,777	79,507,069	3,595,708	
GENERAL	L PLANT														
390.00 STRUCTU	JRES AND IMPROVEMENTS	22,070,702	R 1.0	35.0	2.86	631,222	0	1.00	2.86	631,222	2,218,786	2,218,786	3,314,051	-1,095,265	0.00
391.00 OFFICE F	URNITURE AND EQUIP.	285,566	S 4.0	18.0	5.56	15,877	5	0.95	5.28	15,078	44,136	41,929	26,275	15,654	0.00
391.10 OFFICE F	URNITURE AND EQUIPCOMPUTERS	1,840,911	S 4.0	10.0	10.00	184,091	0	1.00	10.00	184,091	1,179,639	1,179,639	297,543	882,096	0.00
391.20 OFFICE F	URNITURE AND EQUIPLAPTOP COMP.	679,916	S 4.0	5.0	20.00	135,983	0	1.00	20.00	135,983	349,087	349,087	81,882	267,205	0.00
393.00 STORES E	EQUIPMENT	99,421	SQ	30.0	3.33	3,311	0	1.00	3.33	3,311	19,569	19,569	28,007	-8,438	0.00
	SHOP & GARAGE EQUIPMENT	825,963	S 6.0	19.0	5.26	43,446	0	1.00	5.26	43,446	270,641	270,641	347,637	-76,996	0.00
	SHOP & GARAGE EQUIPMENT-CNG STATION	221,199	S 6.0	19.0	5.26	11,635	0	1.00	5.26	11,635	203,415	203,415	192,912	10,503	0.00
	IICATION EQUIPMENT	443,965	SQ	10.0	10.00	44,397	0	1.00	10.00	44,397	343,778	343,778	212,912	130,866	0.00
	ANEOUS GENERAL EQUIPMENT	348,302	S 5.0	15.0	6.67	23,232	0	1.00	6.67	23,232	127,856	127,856	151,520	-23,664	0.00
TOTAL DE	EPREC. GENERAL PLANT	26,815,945		24.5	4.08	1,093,194			4.07	1,092,394	4,756,907	4,754,700	4,652,739	101,961	
TOTAL DE	EPREC. GAS PLANT	477,852,305		38.1	2.62	12,533,748			3.15	15,071,009	131,106,240	165,193,965	155,247,187	9,946,778	
AMORTIZ	ED PLANT														
	ORTATION EQUIPMENT	2,566,140		5.0	20.00	513,228	(	1.00	20.00	513,228			623,499		0.00
	OPERATED EQUIPMENT	491,943		5.0	20.00	98,389	(	1.00	20.00	98,389			430,651		0.00
TOTAL AM	MORTIZED PLANT	3,058,083		5.0	20.00	611,617			20.00	611,617			1,054,150		
TOTAL DE	EPREC. & AMORTIZED GAS PLANT	480,910,388		36.6	2.73	13,145,364			3.26	15,682,626			156,301,337		
	UCTURES-RETAINED												133,284		
304/365 LAND & LA	AND RIGHTS	592,018													
	D & LAND RIGHTS	16,806													
1012 ARO DIFF. IN A	ACCOUNT 367 & 380 BAL. VS PUC ANNUAL REPORT	139,286 8,352													
	AS PLANT IN SERVICE	481,666,850											156,434,621		
TOTAL GA	AS FLANT IN SERVICE	401,000,850											100,404,621		

# LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORPORATION SCHEDULE OF DEPRECIATION ACCRUAL RATES @12/31/2019 WHOLE LIFE SCHEDULE WITH RESERVE VARIANCE

#### SCHEDULE A

		8	CHEDULE A											
FERC ACCOUNT DESCRIPTION NUMBER	PLANT BALANCE @12/31/2019	DISP TYPE	ASL	ACCRUAL RATE W/O NET SALV.	ACCRUAL WITHOUT NET SALV.	NET SALV. %	SALV. FACTOR	ACCRUAL RATE W/ NET SALV.	ACCRUAL WITH NET SALV.	THEO. RSV. WITHOUT NET SALV.	THEO. RSV. WITH NET SALV.	BOOK RSV. @12/31/2019	RESERVE VARIANCE	COR RATE %
CARITALITED COFTWARE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
CAPITALIZED SOFTWARE  303.10 CAPITALIZED SOFTWARE- 3 YEARS	899.372	S 4.0	3.0	33.33	299.761	0	1.00	33.33	299.761	566.269	566.269	522.934	43.335	0.00
303.20 CAPITALIZED SOFTWARE-5 YEARS	13.147.962	S 4.0	5.0	20.00	2.629.592	0	1.00	20.00	2.629.592	10.900.573	10.900.573	10.760.273	140.300	0.0
303.40 CAPITALIZED SOFTWARE- 10 YEARS	3,539,569	S 4.0	10.0	10.00	353,957	0	1.00	10.00	353,957	1,900,188	1,900,188	2,318,763	-418,575	0.0
TOTAL ACCOUNT 303	17,586,903		5.4		3,283,310				3,283,310	13,367,030	13,367,030	13,601,970	-234,940	
PRODUCTION PLANT														
305.00 STRUCTURES AND IMPROVEMENTS	852,167	R 1.0	35.0	2.86	24,372		1.00	2.86	24,372	388,738	388,738	266,638	122,100	0.0
319.00 GAS MIXING EQUIPMENT 320.00 OTHER EQUIPMENT-LNG	368,345 315.570	R 1.0 R 1.0	20.0 35.0	5.00 2.86	18,417 9.025	0	1.00	5.00 2.86	18,417 9.025	164,887 44,571	164,887 44,571	241,392 -57.148	-76,505 101,719	0.0
320.10 OTHER EQUIPMENT-LING 320.10 OTHER EQUIPMENT	3,478,111	R 1.0	35.0	2.86	9,025	0	1.00	2.86	9,025	2,087,209	2,087,209	-57,146 1,389,131	698,078	0.0
TOTAL DEPREC, PRODUCTION PLANT	5,014,193	11 1.0	33.2	3.02	151,289	Ü	1.00	3.02	151,289	2,685,405	2,685,405	1,840,013	845,392	0.0
STORAGE PLANT														
361.00 STRUCTURES AND IMPROVEMENTS-LNG	96,980	R 1.0	35.0	2.86	2,774	0	1.00	2.86	2,774	19,586	19,586	17,233	2,353	0.0
363.50 OTHER EQUIPMENT-LNG	7,646	R 1.0	35.0	2.86	219	0	1.00	2.86	219	2,224	2,224	2,044	180	0.0
TOTAL DEPREC. STORAGE PLANT	104,626		35.0	2.86	2,992			2.86	2,992	21,810	21,810	19,277	2,533	
LNG GAS TERMINATING AND PROCESSING PLANT														
364.20 STRUCTURES AND IMPROVEMENTS-LNG	609,078	R 1.0	35.0	2.86	17,420	0	1.00	2.86	17,420	192,797	192,797	438,133	-245,336	0.00
364.80 OTHER EQUIPMENT  TOTAL DEPREC, LNG TERM, AND PROCESS, PLANT	3,896,019 4,505,097	R 1.0	35.0 35.0	2.86 2.86	111,426 128,846	0	1.00	2.86 2.86	111,426 128,846	1,531,470 1,724,267	1,531,470 1,724,267	2,400,155 2,838,288	<u>-868,685</u> -1,114,021	0.0
	4,000,001		00.0	2.00	120,010			2.00	120,040	1,124,201	1,724,207	2,000,200	1,114,021	
TRANSMISSION PLANT 367 00 MAINS	11 740 462	R 3.0	60.0	1 67	196 066	-15	1.15	1.92	225.417	3,395,127	3.904.396	404 274	3.500.122	0.29
369.00 MEASURING AND REGULATING STATION EQUIP.	138,182	S 4.0	35.0	2.86	3,952	0	1.00	2.86	3,952	61,651	61,651	-44,894	106,545	0.0
TOTAL DEPREC. TRANSMISSION PLANT	11,878,644		59.5	1.68	200,018			1.93	229,369	3,456,778	3,966,047	359,380	3,606,667	
DISTRIBUTION PLANT														
375.00 STRUCTURES AND IMPROVEMENTS	1,689,296	R 1.0	35.0	2.86	48,314	0	1.00	2.86	48,314	147,159	147,159	211,302	-64,143	0.00
376.00 MAINS	316,221,089	R 3.0	60.0	1.67	5,280,892	-15	1.15	1.92	6,071,445	63,268,225	72,758,459	60,928,702	11,829,757	0.2
377.00 COMPRESSOR STATION EQUIPMENT 378.00 MEAS. AND REG. STATION EQUIPMENT-GENERAL	2,246,186 7,435,290	R 1.0 S 2.0	35.0 35.0	2.86 2.86	64,241 212,649	0	1.00 1.00	2.86 2.86	64,241 212,649	164,456 3,479,948	164,456 3,479,948	192,723 4,324,404	-28,267 -844,456	0.0
379.00 MEAS. AND REG. STATION EQUIPMENT-CITY GATE	5,294,746	S 3.0	35.0	2.86	151,430	0	1.00	2.86	151,430	1,214,751	1,214,751	1,320,344	-105,593	0.0
380.00 SERVICES	187,120,798	R 4.0	45.0	2.22	4,154,082	-60	1.60	3.55	6,642,788	52,671,783	84,274,853	83,285,975	988,878	1.3
381.00 METERS	14,097,967	R 3.0	32.0	3.13	441,266	0	1.00	3.13	441,266	4,815,475	4,815,475	4,530,427	285,048	0.0
381.10 METERS-INSTRUMENT	276,522	R 3.0	32.0	3.13	8,655	0	1.00	3.13	8,655	94,411	94,411	113,499	-19,088	0.0
381.20 METERS-ERTS 382.00 METER INSTALLATIONS	6,045,353 18,597,177	SQ R 3.0	15.0 32.0	6.67 3.13	403,225 582.092	0	1.00 1.00	6.67 3.13	403,225 582.092	4,435,265 4,539,321	4,435,265 4.539.321	2,730,186 4,116,883	1,705,079 422,438	0.0
385.00 INDUSTRIAL MEASURING & REGULATING EQUIPMENT	53,375	S 6.0	19.0	5.26	2,808	0	1.00	5.26	2,808	9,832	9,832	5,332	4,500	0.0
387.00 OTHER EQUIPMENT	2,682,115	S 6.0	19.0	5.26	141,079	0	1.00	5.26	141,079	1,081,159	1,081,159	1,078,797	2,362	0.0
TOTAL DEPREC. DISTRIBUTION PLANT	561,759,914		48.9	2.05	11,490,733			2.63	14,769,992	135,921,785	177,015,089	162,838,574	14,176,515	
GENERAL PLANT														
390.00 STRUCTURES AND IMPROVEMENTS	22,648,772	R 1.0	35.0	2.86	647,755	0	1.00	2.86	647,755	3,631,027	3,631,027	5,622,010	-1,990,983	0.0
391.00 OFFICE FURNITURE AND EQUIP.	636,368	S 4.0	18.0	5.56	35,382	5	0.95	5.28	33,600	160,564	152,536	119,886	32,650	0.0
391.10 OFFICE FURNITURE AND EQUIPCOMPUTERS	867,103	S 4.0	10.0	10.00	86,710	0	1.00	10.00	86,710	451,043	451,043	-403,214	854,257	0.0
391.20 OFFICE FURNITURE AND EQUIPLAPTOP COMP.	899,621	S 4.0	5.0	20.00	179,924	0	1.00	20.00	179,924	637,036	637,036	440,849	196,187	0.0
393.00 STORES EQUIPMENT 394.00 TOOLS, SHOP & GARAGE EQUIPMENT	138,142 3,339,457	SQ S 6.0	30.0 19.0	3.33 5.26	4,600 175,655	0	1.00 1.00	3.33 5.26	4,600 175,655	30,157 750,378	30,157 750,378	35,198 754,055	-5,041 -3,677	0.0
397.00 COMMUNICATION EQUIPMENT	892.402	SQ.	10.0	10.00	89.240	0	1.00	10.00	89.240	449.676	449.676	433.204	16.472	0.0
398.00 MISCELLANEOUS GENERAL EQUIPMENT	802,973	S 5.0	15.0	6.67	53,558	0	1.00	6.67	53,558	224,824	224,824	251,165	-26,341	0.0
TOTAL DEPREC. GENERAL PLANT	30,224,838		23.8	4.21	1,272,826			4.21	1,271,044	6,334,705	6,326,677	7,253,153	-926,476	
TOTAL DEPREC. GAS PLANT	631,074,215		38.2	2.62	16,530,012			3.14	19,836,841	163,511,780	205,106,324	188,750,655	16,355,670	
AMORTIZED PLANT													7.97%	
392 TRANSPORTATION EQUIPMENT	8,367,661		5.0	20.00	1,673,532		0 1.00	20.00	1,673,532			3,649,940		0.0
396 POWER OPERATED EQUIPMENT	1,378,752		5.0	20.00	275,750		0 1.00	20.00	275,750			683,509		0.0
TOTAL AMORTIZED PLANT	9,746,413		5.0	20.00	1,949,283			20.00	1,949,283			4,333,449		
TOTAL DEPREC. & AMORTIZED GAS PLANT	640,820,628		34.7	2.88	18,479,295			3.40	21,786,124			193,084,104		
1050 PLANT HELD FOR FUTURE USE	852,305													
1210 OPI-LAND-RETAINED	13,665													
1211 OPI-STRUCTURES-RETAINED	133,284											133,284		
3020 FRANCHISES AND CONSENTS 3040 LAND RIGHTS OWNED	250,950 97,504													
3641 LNG PROCSS LAND AND LAND RIGHTS	57,315													
3740 DISTR LAND & LAND RIGHTS	357,903													
3890 GNL LAND RIGHTS	121,489													
TOTAL GAS PLANT IN SERVICE	642,705,043											193,217,388		

# <u>Liberty Utilities, NH</u> ENNG – Impacts of Decoupling on Energy Efficiency As of 6/1/2020

## **Summary**

Attached is a detailed inventory of specific marketing and promotion activities performed in 2018, 2019, and year-to-date in 2020 for the Company's natural gas energy efficiency programs. Activities are differentiated between advertisements, events, and training sessions performed, and further classified as relating to, (a) the promotion of stricter building energy codes in the state, (b) the education activities to builders, and/or (c) the engagement with state and local officials and associations to promote energy efficiency.

In summary, the Company more than doubled its volume of marketing and promotion activities between 2018 and 2019, performing 240 documented tactics in 2019 as compared to 99 in 2018. The Company increased its engagement with state and local officials and associations by 150%, and increased its education activities to builders by 88%. Specific tactics the Company deployed to promote stricter building energy codes in the state increased 64%, including where the Company expressed public support and lobbied for the full adoption of the 2015 IECC standards. In 2020, the Company is on pace to exceed its 2018 activity levels again and come close to matching if not exceeding certain 2019 activity levels, despite the market implementation challenges posed by COVID-19.

In terms of general promotion of the Company's energy efficiency programs, of noteworthy recognition is the Company's implementation of a broad-based, multi-channel mass-media campaign launched in April 2019. The campaign is a natural gas-focused energy efficiency advertising effort utilizing monthly Cable TV commercials and traditional and online radio spots, bus-wrappings, billboard advertisements, and social media marketing. This was a first-of-its kind energy efficiency marketing campaign from any of the NH utilities, which the Company is continuing to deploy on a monthly basis in 2020.

In terms of any measurable impacts decoupling has had on the results of the Company's sponsored energy efficiency programs, the Company increased its lifetime MMBtu savings achievements by 26% in 2019 compared to its 2018 savings achievements, while only increasing its program expenditure levels by 8% between 2019 and 2018.

Lastly, the Company completed a survey of its residential customers in April 2020 to measure the level of energy efficiency program awareness. As part of the survey findings, the Company found that nearly three in four customers (73%) are aware that the Company offers energy efficiency programs to help customers reduce their energy costs, which is significantly higher than the awareness level recently measured as part of the Company's annual customer satisfaction survey completed in the fall of 2019, where energy efficiency program awareness was found to be 64%. The Company had last measured customer awareness of its energy efficiency programs in its 2016 annual customer satisfaction survey, where program awareness was measured to be 57%.



JULY 31, 2020

# EVALUATION OF THE EFFECTS OF REVENUE DECOUPLING ON ENERGY EFFICIENCY PROGRAM ACHIEVEMENT



EXPERTS WITH IMPACT™

# 1. Introduction and Summary

The Power & Utilities practice at FTI Consulting Inc. ("FTI") has been retained by Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty ("Liberty" or the "Company") to evaluate linkages between rate decoupling and outcomes for utility-sponsored Energy Efficiency ("EE") programs. Specifically, FTI was asked to analyze changes in the behaviors of gas utilities that are generally similar to Liberty in terms of size and geography attributable to the implementation of rate decoupling and, to the extent that such changes were identified, attempt to measure the effects.

The context for our inquiry is the rate case with which this report is filed. In Liberty's most recent completed rate proceeding, the New Hampshire Public Utilities Commission (the "Commission") authorized it to implement New Hampshire's first revenue decoupling program, which includes a mechanism to adjust rates for differences between the revenue target contemplated in the Company's most recent base-rate case and actual sales revenues. By accounting for this difference, the revenue decoupling mechanism is designed to eliminate revenue risks that arise from increasing EE penetration, in addition to changes in weather and other variables. When the Commission approved the implementation of this mechanism through the rate settlement in the Company's most recent base-rate proceeding, the Commission directed Liberty to report on the effectiveness of the mechanism in achieving the desired outcome, when the Company next requested a change in distribution rates. This report supports fulfillment of that requirement and provides additional information to the Commission

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<sup>&</sup>lt;sup>1</sup> Order No. 26, 122 at p. 1. Docket No. DG-19-161.

<sup>&</sup>lt;sup>2</sup> Ibid., p. 46.

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and intervenors regarding the effectiveness of the Company's decoupling program in advancing EE achievement.

Our evaluation included two main avenues of inquiry. *First*, we sought to determine whether the Company's behavior regarding its EE programs changed after November 1, 2018. One stated objective of decoupling the Company's rates was the elimination of disincentives to participate in EE programs. If that objective was achieved, we expected to find evidence of greater advocacy for those programs. To determine whether this was the case, we reviewed data regarding the Company's outreach and marketing efforts before and after decoupling took effect and also data showing savings from EE programs in those two periods.

Second, we sought to isolate evidence indicating a relationship between decoupling and EE achievement through a comparative analysis of similar utilities. Here, our thesis was that, if revenue decoupling is positively correlated to EE achievement, we would find evidence of that relationship for utility companies that operate in different jurisdictions, under different management, and which decoupled their rates at different times. To undertake this part of our analysis we reviewed EE data for a number of gas utilities, and one electric utility, throughout New England.

Through this investigation, we found that there is significant evidence that revenue decoupling and EE achievement are linked. Data for Liberty shows that its behavior changed once the Commission approved its request to decouple its rates from its revenues and that significant savings from its EE programs was a direct result. We also found similar outcomes for utilities all over New England, for whom gains in EE program savings coincided with the decoupling of rates.

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In the final analysis, we conclude that the Commission's approval of Liberty's request to decouple its rates from its revenues in 2018 has provided measurable support for the Company's subsequent gains in energy efficiency and that decoupling is likely to do so moving forward.

The remainder of this report is organized as follows. Section 2 provides a brief overview of utility decoupling, the Commission's approval of revenue decoupling for Liberty, and the Company's EE program. Section 3 describes the increases in the Company's activity levels we observed after November 2018 and the increases in savings from EE programs that Liberty subsequently achieved. In Section 4, we describe the comparative analyses we conducted of other utilities in New England who have implemented decoupling in roughly the last ten years and our conclusion that there has been a demonstrable increase in spending on EE programs, EE savings, or both, for most of those utilities that coincides with the implementation of decoupling. Lastly, in Section 5, we summarize our findings.

# 2. Revenue Decoupling

Revenue decoupling is a regulatory mechanism that first appeared in 1978 in the state of California to provide relief to natural gas utilities from reduced revenues due to natural gas supply constraints.<sup>3</sup> Since that time, many states have adopted decoupling measures for its electric and/or natural gas utilities through individual rate cases.

In recent years, decoupling has become more common as a growing number of state regulators and policymakers focus attention on reducing energy usage and greenhouse gas emissions. Traditional

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Department of Energy (2010, July). *Natural Gas Revenue Decoupling Regulation: Impacts on Industry.* U.S. Department of Energy. Retrieved from: <a href="https://www1.eere.energy.gov/manufacturing/states/pdfs/nat-gas-revenue-decoupling-final.pdf">https://www1.eere.energy.gov/manufacturing/states/pdfs/nat-gas-revenue-decoupling-final.pdf</a>

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ratemaking may incent utilities to seek to increase profits by increasing sales. Simultaneously, utilities may have a financial disincentive to pursue investments and programs, like EE, that tend to reduce sales and revenues. As a result, tensions can arise between policy objectives and utilities financial outcomes. By "decoupling" revenues from sales, which is often accomplished through some adjustment mechanism that allows the utility to achieve a fixed amount of revenue, expressed on either an overall or on a percustomer basis, that tension can be resolved. With revenues decoupled from sales, utilities can support EE and related programs without putting its revenues at risk.

In April 2018, the Commission authorized Liberty to implement what is known as "full" decoupling in November 2018.<sup>5</sup> Specifically, Liberty is allowed to recover a fixed amount of revenue per customer, regardless of how its throughput changes for any reason.<sup>6</sup> Alternatives to full decoupling include partial decoupling, which allows a utility to recover some but not all of the difference between authorized and actual revenues, and limited decoupling, which provides for recoveries of "lost" revenues attributable to throughput reductions that arise from specific measures; for example, a limited decoupling mechanism may allow a utility to recover the difference between authorized and actual revenues that result from changes to weather but not that arise from changes to economic conditions.<sup>7</sup>

Liberty, along with the other gas and electric utilities in New Hampshire, collaborates to provide its customers EE solutions under the "NH Saves" brand, through which they provide customers with

Regulatory Assistance Project ("RAP") (2016, November). Revenue Regulation and Decoupling: A Guide to Theory and Application. Regulatory Assistance Project. Retrieved from: https://www.raponline.org/wpcontent/uploads/2016/11/rap-revenue-regulation-decoupling-guide-second-printing-2016-november.pdf

Order No. 26, 122 at p. 43-45. Docket No. DG 17-048.

National Renewable Energy Laboratory (2009, December). Decoupling Policies: Options to Encourage Energy Efficiency Policies for Utilities. Retrieved from: https://www.nrel.gov/docs/fy10osti/46606.pdf

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incentives, information, and support designed to save energy, reduce costs, and promote environmental objectives.<sup>8</sup> Additionally, each of the New Hampshire utilities are individually required to implement the Energy Efficiency Resource Standard ("EERS"), which was established by the Commission in 2016 and creates savings goals expressed as a function of each utility's sales.<sup>9</sup> The EERS additionally requires the annual filing of updates to utility-specific EE plans (the "Statewide EE Plans") through which increasingly stringent EE targets will be achieved. The 2020 Plan Update, filed in September 2019, is the most recent. Liberty's EE offerings include separate programs for Residential and Commercial & Industrial ("C&I") customers. Residential programs include performance audits, ENERGY STAR appliance rebates, programs targeted at low-income customers, and others.<sup>10</sup> Building and appliance programs are also offered to C&I customers. Additionally, Liberty engages in education and policy advocacy efforts, such as, for example, advocacy before regulatory agencies for more stringent building codes. Most of Liberty's programs also include customer outreach elements, which is to say that it conducts marketing and purchases advertising to make customers aware of its EE programs and the options to create savings they have available.

# 3. Company Results

FTI reviewed public data regarding Liberty's EE program and data that the Company compiled internally.

Both indicate that after decoupling was authorized by the Commission, Liberty spent more on EE,

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New Hampshire Statewide Energy Efficiency Plan, 2020 Update (the "2020 Plan Update"). Filed September 13, 2019 in DE 17-136 at p. 8.

<sup>&</sup>lt;sup>9</sup> Order No. 25, 932. Docket No. DE 15-137.

Energy Efficiency Programs (2020). Liberty. Retrieved from: <a href="https://new-hampshire.libertyutilities.com/derry/residential/smart-energy-use/natural-gas/index.html">https://new-hampshire.libertyutilities.com/derry/residential/smart-energy-use/natural-gas/index.html</a>

conducted more outreach and achieved greater savings compared to the period prior to decoupling implementation.

# **Enhanced Marketing Outreach**

Liberty more than doubled the volume of its marketing and promotion activities in 2019, compared to 2018. On an ongoing basis, the Company places advertisements for its EE programs; conducts trainings for professionals in the construction and/or EE industries, including, for example, the Company's participation in the Building Operator Certification program or "button-up" workshops whose purpose is to educate homeowners regarding EE opportunities; and participates in events, which include meetings with government agencies, participation in industry conferences, and running open houses and roundtable discussions. Each activity is tracked individually. In 2018, there were 99 separate instances of outreach by the Company designed to promote its EE programs. In 2019, there were 240, an increase of 142%. Outreach instances are shown below by category:

Table 1. Liberty EE Outreach by Category

	Advertisement	Event	Training	Total
2018	45	25	29	99
2019	<u>72</u>	<u>62</u>	<u>106</u>	<u>240</u>
YoY Change	60%	148%	266%	142%

Liberty also tracks the primary objective of each outreach activity. Primary objectives include the Company's promotion of enhanced building standards, which it seeks to achieve through advertisement and participation in industry events; engagement with state and local officials regarding EE and the

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Building Operator Certification (2016, January). *BOC Offered in New Hampshire!* Retrieved from: https://www.theboc.info/boc-offered-in-new-hampshire/

Company's EE program, and others.<sup>12</sup> Table 2 shows the change in the frequency of outreach for each type of objective between 2018 and 2019. Note that the totals exceed those reported in Table 1 since some instances of outreach had multiple objectives.

Table 2. Liberty EE Outreach by Objective

	2018	2019	Increase
Promotion of enhanced building codes	11	18	64%
Education activities with builders	16	30	88%
Engagement with state and local officials	22	55	150%
Other activities	66	161	144%

One of the most impactful approaches to outreach regarding its EE programs that the Company has taken has been a broad-based, multi-channel mass-media campaign launched in April 2019. The campaign includes television and radio commercials, online content, "bus-wrappings", billboard advertising, and social media marketing. The program, which is still ongoing, is the first of its kind in New Hampshire. Customer awareness is one of the key metrics that the Company uses to evaluate the effectiveness of its marketing efforts. Those data indicate that the measures described above have yielded benefits. In April 2020, the Company conducted a survey and determined that 73% of its customers were aware of its EE programs and their potential to help reduce energy costs. In mid-2019, awareness had been considerably lower, 64%, and in 2016, the most recent previous survey, awareness was only 57%.

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Much of the Company's 2019 efforts were devoted to advocating for full adoption of the 2015 International Energy Conservation Code ("2015 IECC"), which was adopted, with amendments, by the New Hampshire State Building Code Review Board in September 2019. See <a href="https://www.puc.nh.gov/EnergyCodes/energypg.htm">https://www.puc.nh.gov/EnergyCodes/energypg.htm</a>

# **Savings in Recent Years**

Available data indicate that the Company's EE savings following decoupling have been significant. Overall, the Company increased the savings achieved by the EE program, measured in lifetime MMBtu savings, by 26% in 2019 compared to its 2018 savings achievements, while only increasing its program costs by 8% over the same period. Savings were achieved in most of Liberty's rate classes (and in all of its largest classes).

Using weather-normalized sales data that Liberty provided, FTI calculated normal use per bill for each rate class for the twelve-month period beginning each November (referred to below as a "decoupling year"). To account for long-run trends, normal use per bill for the annual periods of November 1<sup>st</sup> through the subsequent October 31<sup>st</sup> were calculated for each of the five decoupling years that end with October 2019. Results are summarized below.

Table 3. Liberty Usage by Customer Group (average dth/bill)

Normal Usage Per Bill by Class	Nov14- Oct15	Nov15- Oct16	Nov16- Oct17	Nov17- Oct18	Nov18- Oct19
R-1	212	216	218	213	196
R-3 & R-4	752	726	738	748	747
G-41, G-42 & G-43	45,209	44,417	46,009	43,002	40,831
G-51 & G-52	16,745	16,210	17,664	17,715	17,453

To compile these data, we grouped customers by rate class with other, similar classes and calculated average consumption per bill (dth) for each aggregation. In some instances, rate classes with a very small number of customers were excluded.<sup>13</sup> The results indicate a decreasing consumption across classes. Large reductions were observed for the C&I high-winter-use group (rate classes G-41, G-42 &

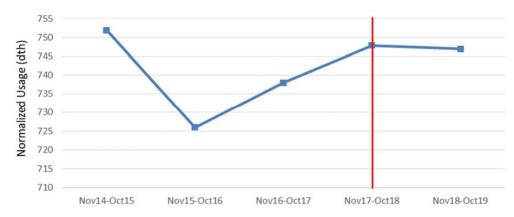
<sup>&</sup>lt;sup>13</sup> This includes, for example, the G-53 and G-54 industrial customer rate classes.

G-43) and residential non-heating group (R-1). The results for the residential heating group (R-3 & R-4) indicate smaller declines, expressed on a percentage basis, but represent a sizeable portion of the Company's customers.<sup>14</sup> In each instance, the red line indicates the implementation of decoupling.

225
(4th) 215
200
205
200
195
190
185
Nov14-Oct15 Nov15-Oct16 Nov16-Oct17 Nov17-Oct18 Nov18-Oct19

Figure 1. Change in Annual Consumption, Residential Non-Heating Group





The low-winter-usage C&I group (G-51 & G-52) had a significant reduction in usage per bill as well.

Although caution should be taken in inferring too much from such a limited sample size, the consistency

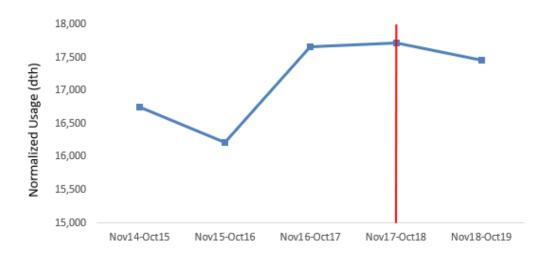
As of October 2019, the R-3 rate class (75,307 customers) and the R-4 rate class (5,667 customers) combined for a total of 80,974 customers, or 83% of Liberty's 97,348 total customers.

of these data suggest a change in customer behavior that may have coincided with the implementation of decoupling and the changes in Liberty's outreach efforts described above which, as we describe below, is consistent with our other findings. Year over year changes for each aggregation are shown below.

47,000 46,000 Normalized Usage (dth) 45,000 44,000 43,000 42,000 41,000 40,000 39,000 38,000 Nov14-Oct15 Nov16-Oct17 Nov17-Oct18 Nov15-Oct16 Nov18-Oct19

Figure 3. Change in Annual Consumption, C&I High-Winter-Use Group





Moving forward, Liberty's EE achievement is expected to remain strong, particularly in the residential segment. FTI has reviewed data from the last Statewide EE Plans filed with the Commission in DE 17-136. Those data indicate expectations of continued strong growth in savings. Below, Liberty's EE targets for annual and lifetime savings approved each year by the Commission are reported for the three years ending in 2020. 15,16

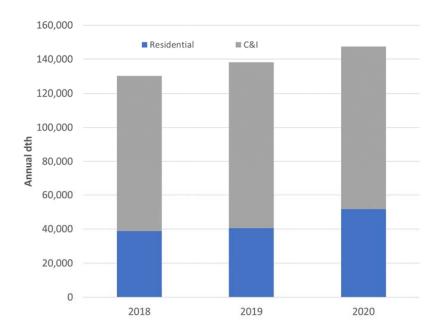


Figure 5. Liberty Energy Efficiency Plan, Annual Savings by Customer Class, 2018-2020

Notably, although C&I gains drove growth in savings from 2018 to 2019, benefits from the residential sector are expected to provide the basis for most of the expansion of the EE program in 2020. Planned residential savings for 2020, expressed on an annual and lifetime basis, are expected to increase by roughly 28% and 35%, respectively, compared to 2019.

Order No. 26, 323. Docket No. DE 17-136.

No attempt has been made to adjust or evaluate the reasonableness of the approved objectives for 2020 given the COVID-19 pandemic, ensuing economic recession, or any other factor.

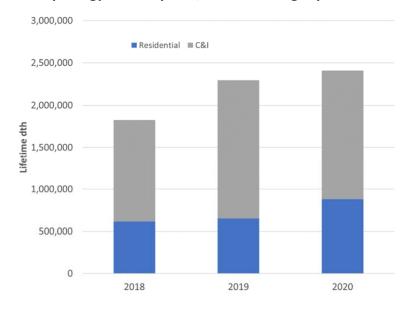


Figure 6. Liberty Energy Efficiency Plan, Lifetime Savings by Customer Class, 2018-2020

One driver of those gains is expansion of the Company's ENERGY STAR Homes program, a package of incentives it offers to customers seeking to achieve the ENERGY STAR qualification, which requires independent verification that the home is 15% more efficient than currently effective state requirements. From 2019 to 2020, acceleration of the ENERGY STAR Homes program is expected to result in an increase in annual savings of roughly 10,000 dth, meaning that the measure accounts for much of the growth shown above. In the company's ENERGY STAR Homes program, a package of incentives it offers to customers seeking to achieve the ENERGY STAR qualification, which requires

Liberty Utilities (2020). Building a Home: ENERGY STAR Homes. Retrieved from: https://libertyutilities.com/residential/smart-energy-use/natural-gas/building-a-home.html

The combination of the Company's participation in the ENERGY STAR program and its advocacy for increasingly stringent building codes has the potential for compounding benefits. For example, passage of the 2015 IECC means that greater savings will be required to achieve the ENERGY STAR qualification, all else equal.

<sup>&</sup>lt;sup>19</sup> See Attachment I4 of the 2020 Energy Efficiency Plan.

# 4. Comparative Analysis

on EE achievement on utilities in other jurisdictions. To do so, we compiled a group of utilities that were generally similar in certain ways to Liberty (and dissimilar in other significant ways) and reviewed data they reported to their regulators to determine how the introduction of decoupling affected their ability to generate energy savings through their EE programs. Our starting point was the universe of gas utilities in New England, of which there are twenty-four, according to the Northeast Gas Association.<sup>20</sup> Of these, we eliminated the municipal utilities, including Holyoke Gas & Electric, Norwich Public Utilities, and others, as well as the companies that are either considerably larger than Liberty, such as National Grid Massachusetts, or much smaller, including Fitchburg Gas and Electric Light Co. and all of the Maine Local Distribution Companies ("LDCs"). Utilities that do not have revenue decoupling, such as Vermont Gas Services, were not considered, nor were companies such as Columbia Gas of Massachusetts ("CMA") or Liberty's Massachusetts affiliate, which decoupled its rates long enough ago that data regarding EE achievement was not sufficiently available to conduct the before and after comparisons we describe below.<sup>21</sup> Because Maine shares a number of important similarities with New Hampshire, and due to the lack of suitable LDCs from that state to include in our proxy group, we chose to include one electric company from Maine, Central Maine Power ("CMP"), in our analysis.

In an effort to isolate the impacts of decoupling in these results, FTI compared the effect of decoupling

Northeast Gas Association. *Northeast Gas Providers – Links to Individual Company Safety Pages*. Retrieved from: <a href="https://www.northeastgas.org/nat\_gas\_providers.php">https://www.northeastgas.org/nat\_gas\_providers.php</a>

In all cases here and in the remainder of this section we adopted the convention to refer to each LDC by its current name regardless of what its name was when any event of note took place. For example, CMA was Bay State Gas at the time it first implemented decoupling.

The five utilities that comprise the proxy group are shown in Table 4. For each, the most recently available customer count is reported as well as the date on which its rates were decoupled and the docket in which the state regulator of relevance first approved decoupling.

**Table 4. Proxy Group Utilities** 

	State	Туре	Customers	Decoupling Implemented	Decoupling Docket
Connecticut Natural Gas ("CNG")	СТ	Gas	177,000	Jan-14	13-06-08
Southern Connecticut Gas ("SCG")	СТ	Gas	197,000	Jan-18	17-05-42
Berkshire Gas ("Berkshire")	MA	Gas	40,000	Feb-19	18-40
National Grid Rhode Island ("NGrid RI")	RI	Gas	272,000	Apr-11	4206
СМР	ME	Electric	600,000	Sep-14	2013-00168

As described in the remainder of this section, for each company we found a positive correlation between decoupling and EE achievement based on the observation that each achieved more savings from their EE programs after implementing decoupling than they did before. Moreover, we find that the change in regime is fairly evident in all cases. The clear difference in achievement pre- and post-decoupling, combined with the fact that the same change in trend was apparent regardless of where or when decoupling was implemented, creates compelling evidence of a causal relationship.

### Connecticut

Public Act No. 07-242 (2007) required the Public Utilities Regulatory Authority ("PURA") of Connecticut to implement decoupling for each of the state's gas and electric utilities in the next rate case following the measure's passage. PURA first approved CNG's decoupling program in 2014 while SCG's mechanism was put into place in 2018. The CNG and SCG mechanisms are generally similar. Both are full decoupling mechanisms that reconcile rates on a dollars-per-customer basis and include weather normalization. Charges or refunds are allocated on a class-by-class basis and differentials between budgets and earned

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revenues are reconciled through the decoupling mechanism only if the difference is greater than \$1 million. Minor differences exist regarding the treatment of customers added to the system between rate cases, but otherwise most of the same provisions are used for the two companies.

EE achievement in Connecticut is generally high. In addition to revenue decoupling, statutes also provide an opportunity for both gas and electric companies to earn incentive payments if EE targets are met or exceeded.<sup>22</sup>

CNG and SCG, along with the electric utilities in Connecticut, serve as administrators for the statewide EE plan, one responsibility of which is to develop three-year Conservation & Load Management Plans ("C&LM Plans"), which are approved by PURA and the Department of Energy and Environmental Protection ("DEEP").<sup>23</sup> Once approved, plans are updated on an ongoing basis. The current C&LM Plan covers the period 2019-2021. The latest revision to that plan was filed with PURA and DEEP on March 1, 2020.<sup>24</sup> FTI relied on data from the 2019-21 C&LM Plan in order to evaluate decoupling impacts for CNG and SNG. Figure 7 shows annual savings realized by the CNG EE program beginning in 2012, two years before decoupling was implemented (and the earliest date for which data was readily available) through 2016. The red line in each figure delineates the time series to periods before and after decoupling.

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<sup>&</sup>lt;sup>22</sup> C2ES (2019, March). *Decoupling Policies*. Center for Climate and Energy Solutions. Retrieved from: https://www.c2es.org/document/decoupling-policies/

Energize Connecticut (2020). *Current and Approved C&LM Plans*. Retrieved from: <a href="https://www.energizect.com/connecticut-energy-efficiency-board/current-and-approved-clm-plans">https://www.energizect.com/connecticut-energy-efficiency-board/current-and-approved-clm-plans</a>

Eversource Energy, United Illuminating, Connecticut Natural Gas Corporation, and Southern Connecticut Gas (2019, November). 2020 Plan Update to the 2019-2021 Conservation & Load Management. Retrieved from: <a href="https://portal.ct.gov/-/media/DEEP/energy/ConserLoadMgmt/Final-2020-Plan-Update-Text-11-1-19.pdf?la=en">https://portal.ct.gov/-/media/DEEP/energy/ConserLoadMgmt/Final-2020-Plan-Update-Text-11-1-19.pdf?la=en</a>

Based on annual savings, EE achievement increased substantially once decoupling was introduced. Average energy savings from EE programs for the first two years of this dataset (the pre-decoupling period) was 1,340 Ccf,<sup>25</sup> expressed on an annual basis. In the three years afterwards, the average annual savings increases 41% to 1,895 Ccf.

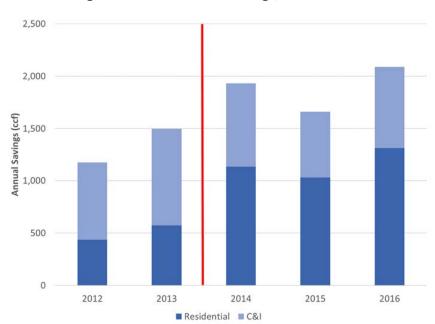


Figure 7. CNG Annual EE Savings, 2012-2016<sup>26</sup>

Conducting the same evaluation for SCG reveals the same pattern around the date when that utility's decoupling mechanism was approved. As shown below, for the three-year period ending in 2017, SCG's average annual EE savings was 1,551 Ccf. For the three years beginning in 2018, the year after which decoupling was implemented, annual savings increase 26% to 1,953 Ccf. Note that the 2020 goal was established in the latest C&LM Plan while data for other years report actual achievement.

<sup>&</sup>lt;sup>25</sup> Ccf is the volumetric abbreviation for 100 cubic feet of natural gas and is the equivalent of 1.037 therms.

<sup>&</sup>lt;sup>26</sup> 2019-21 C&LM Plan at p. 203.

That CNG and SCG show the same result achieved at different times is impactful. Changes to variables such as weather, economic conditions, or other factors could influence consumption levels, creating a potential "false positive" attribution of the change to the implementing of decoupling. The fact that these two companies experienced the same change in trend, in the same geography but at different times suggests a meaningful correlation rather than coincidence.

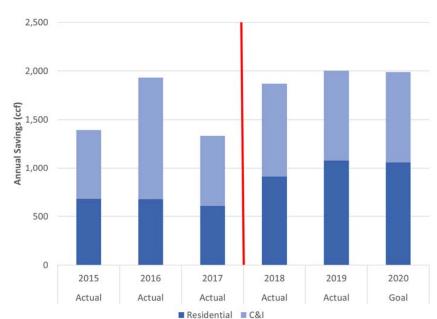


Figure 8. SCG Annual EE Savings, 2015-2020<sup>27</sup>

# **Massachusetts**

Berkshire's mechanism, which was first approved by the Massachusetts Department of Public Utilities ("MADPU"), provides for full decoupling on a per-customer basis. Semi-annually, by season, Berkshire reconciles its revenues per customer to a benchmark revenue amount previously established by the

<sup>&</sup>lt;sup>27</sup> 2019-21 C&LM Plan at p. 224.



MADPU and applies a Revenue Decoupling Adjustment Clause ("RDAC") to either recover or refund any variances. The RDAC is calculated and applied for each rate class.<sup>28</sup>

LDCs in Massachusetts are required to file EE data regarding their EE plans and program achievement regularly. Typically, they file three-year plans and separately file reports of achievement, variances between actuals and plans, and other results. Since the MADPU authorized Berkshire to implement decoupling in early 2019, FTI analyzed actual annual savings for the period 2016-2018 compared to the savings projections included in the most recent EE plan approved by the MADPU.<sup>29</sup>

Berkshire's EE savings show the same pattern as do those of the Connecticut utilities: a significant increase in the benefit from EE programs that coincides with the decoupling of rates and revenues. Annual savings for the three years prior to decoupling averaged 42,738 dth, as shown in Figure 10 below. The plan approved by the MADPU indicates expectation that savings will increase by about 18% to an average of 50,464 dth each year.

The Berkshire Gas Company (2020, March). Tariff M.D.P.U, No. 548: Revenue Decoupling Adjustment Clause.

Actuals for 2016-2018 were reported in Berkshire's August 1, 2016 filling in Docket No. DPU 16-121 and its current plan for 2019-2021 was filed with the DPU in Docket No. DPU 19-91 on August 1, 2019.

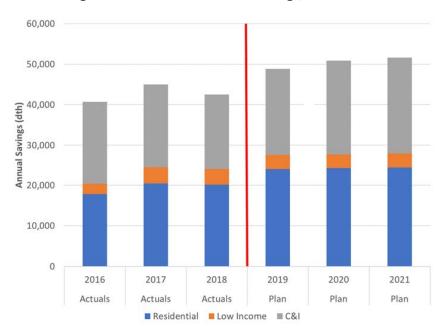


Figure 9. Berkshire Annual EE Savings, 2016-2021

The timing associated with these findings is important since Berkshire decoupled its rates at a different time than either of the Connecticut utilities. The fact that it experienced the same results as did those companies implies some causal correlation with the timing of the change in the rate structure.

## **Rhode Island**

Like Connecticut, Rhode Island decoupling was enacted by statute when, in 2010, the Rhode Island legislature passed House Bill 8082, requiring the Rhode Island Public Utilities Commission ("RIPUC") to establish rates that included decoupling mechanisms in each utility's next rate case.<sup>30</sup> NGrid RI's mechanism was subsequently approved in Docket No. 4206 and implemented in April 2011.<sup>31</sup>

Rhode Island State Legislature (2010, May). *Rhode Island House Bill 8082*. LegiScan. Retrieved from: <a href="https://legiscan.com/RI/text/H8082/id/468020">https://legiscan.com/RI/text/H8082/id/468020</a>

RIPUC (2012, May). Report and Order Re: Narragansett Electric Company d/b/a National Grid's Proposed Revenue Decoupling Mechanism. Retrieved from: http://www.ripuc.ri.gov/eventsactions/docket/4206-NGrid-RDM-Ord20745(5-25-12).pdf

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NGrid RI's mechanism provides for full decoupling based on an annual reconciliation of revenues per customer for all classes except large and extra-large C&I customers.<sup>32</sup> Regularly, the utility files a benchmark estimate of per-customer revenues with the RIPUC. Thereafter (assuming that the estimate is approved), variances to the benchmark are calculated and either refunded or recovered through the Revenue Decoupling Mechanism ("RDM"). Changes to the RDM have subsequently been made on an annual basis for 12-month periods from April through the following March each year.

Annually, NGrid RI files with the RIPUC a report indicating its EE achievement for the previous year. FTI reviewed the reports for each year from 2009 to 2015.<sup>33</sup> Among other things, those reports indicate NGrid RI's annual savings from EE programs by customer type. Annual EE savings for the period 2009-2015 are shown in Figure 10.

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When it proposed its decoupling mechanism, NGrid RI explained that it had excluded the large and extra-large C&I classes because there were a small number of such customers and, as a result, the migration of any one customer from the class to competitive service, which is an option for certain C&I consumers in Rhode Island, could create problematic price distortions and subsidization issues. See the RIPUC's May 25, 2012 Order in Docket No. 4206, at p. 5, for additional details.

The reports were filed in dockets 4000 (2009), 4116 (2010), 4209 (2011), 4295 (2012), 4366 (2013), 4451 (2014), and 4527 (2015).

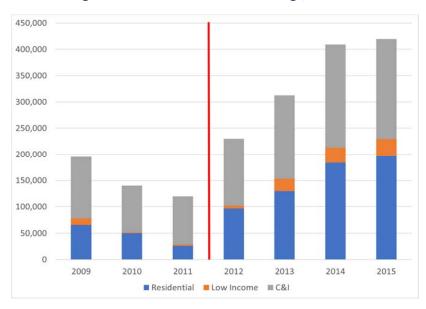


Figure 10. NGrid RI Annual EE Savings, 2009-2015

The data indicates that changes to EE achievement associated with decoupling is similar for NGrid RI as it is for other utilities, namely that it increases markedly at the same time that rates are decoupled from revenues. Total annual EE savings for the three years before decoupling was implemented was 151,637 MMBtu. For the three years following decoupling, the same measure increased by 109% to 317,091 MMBtu.

### Maine

Decoupling was adopted in Maine in the late 1980s and early 1990s and subsequently abandoned for multiple reasons, one of the most important of which was a significant recession in the state which reduced energy consumption, causing recurring price increases.<sup>34</sup> Notwithstanding, the Maine Public Utilities Commission ("MEPUC") is authorized under Title 35-A to implement a decoupling mechanism,

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<sup>&</sup>lt;sup>34</sup> RAP, p. 47.

which it did in 2014, granting CMP a decoupling mechanism in Docket No. 2013-00168 which became effective in September 2014.<sup>35</sup>

EE programs in Maine are administered by the Efficiency Maine Trust ("Efficiency Maine"), an independent administrator that is overseen by the MEPUC. Each year, Efficiency Maine publishes reports that explain EE achievement, among other things. Most results are reported on a statewide basis. Because CMP accounts for roughly 80% of the electric load in Maine, FTI chose to compare statewide EE savings before and after CMP's decoupling mechanism took effect.<sup>36</sup> Those results are shown for the two years before decoupling became effective and the three years after, on an annual basis for each year, below in Figure 11. Efficiency Maine's reporting of data does not differentiate results by class.

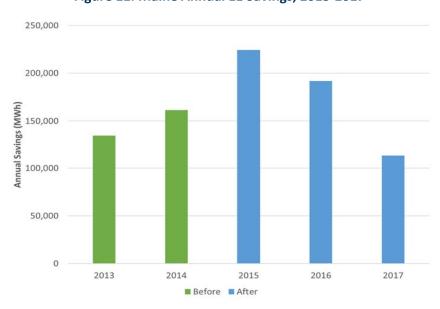


Figure 11. Maine Annual EE Savings, 2013-2017

Maine Legislature (2019, December) *Title 35-A: Public Utilities*. Retrieved from: http://legislature.maine.gov/statutes/35-A/title35-Ach0sec0.htmll

<sup>&</sup>lt;sup>36</sup> MEPUC (2020, February). *2019 Annual Report at p. 19.* 



Despite the inherent challenges of measuring the impact of decoupling at a single utility using statewide reporting, the same clear pattern emerges from this data as in other sets, namely that the implementation of decoupling coincides with significant increases in EE achievement. In this case, annual savings increased roughly 19% from the two years before decoupling to the three years after, from an average of 148.1 GWh saved to 176.5 GWh.

#### 5. Conclusions

Our analysis of EE savings achieved by Liberty and by other New England utilities who have decoupled their revenues from sales supports at least five conclusions:

- First, the decoupling of rates in November 2018 changed the way Liberty does business with regard to its EE programs. The change in its effort to reach out to engage stakeholders and improve market penetration are significant and measurable.
- Second, Liberty's savings from EE programs increased significantly once decoupling was implemented.
- Third, the strong performance of Liberty's EE programs was expected to continue into 2020 as of the start of this year. If 2020 achievement is lower than expected, that result is most likely attributable to impacts from the COVID pandemic.
- Fourth, our analysis of EE achievement by other utilities around New England that have implemented decoupling provides further evidence of a causal relationship. Despite the fact that the companies FTI reviewed have different management and regulators, operate in different weather conditions, and implemented decoupling in different years, in each instance we found that a measurable increase in savings from EE programs coincided with the decoupling of rates.

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Based on these findings, we conclude that there is compelling evidence of a causal link between revenue decoupling and the advancement of EE programs. Simply put, EE savings are greater when utility revenues are decoupled from sales. In Liberty's case, it is clear that the increased revenue certainty that came with decoupling either incented it to more zealously expand its EE program, or eliminated disincentives to do so, and that savings from its EE programs increased as a result. It is also reasonable to conclude that the Commission's re-authorization of the Company's decoupling mechanism will promote increased savings in the future.

# **Liberty Utilities, NH**

EE Marketing Activities - ENNG: 2018, 2019 & YTD 2020

As of 6/1/2020

## **Overall Marketing/Promotion Activities**

<b>Count of Year</b>	Column Labels			
<b>Row Labels</b>	Advertisement	Event	Training	<b>Grand Total</b>
2018	4	5 2	5 2	29 99
2019	7	2 6	2 10	06 240
2020	2	1 3	8	4 63
<b>Grand Total</b>	13	8 12	5 13	39 402

#### **Promotion of Stricter Building Codes**

<b>Count of Year</b>	Column Labels				
<b>Row Labels</b>	No		Yes	<b>Grand Total</b>	% Increase
2018		88	11	99	
2019	2	222	18	240	64%
2020		51	12	63	
<b>Grand Total</b>	3	361	41	402	

### **Education Activities to Builders**

<b>Count of Year</b>	Column Labels			
<b>Row Labels</b>	No	Yes	<b>Grand Total</b>	% Increase
2018	8	3 16	99	
2019	21	30	240	88%
2020	4	7 16	63	
<b>Grand Total</b>	34	0 62	402	

## **Engagement with State/Local Officials & Associations**

<b>Count of Year</b>	<b>Column Labels</b>				
<b>Row Labels</b>	No		Yes	<b>Grand Total</b>	% Increase
2018		77	22	99	
2019		185	55	240	150%
2020		44	19	63	
<b>Grand Total</b>		306	96	402	

iberty Utilities, N											
	vities - E	NNG: 2018, 2019 8	k YTD 2020								
s of 6/1/2020											
Launch Date	Year	Advertising, Event or Training?	Type/Location of Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted	Market Segment	Promotion of Stricter Building Codes?	Education to Builders?	State/Local Official & Associations?
1/18/2018	2018	Advertisement	Email Newsletter	Building Automation Systems: 7 Common Mistakes	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
1/18/2018	2018	Advertisement	Email Newsletter	Saving Energy From the Comfort of Your Couch	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
2/1/2018	2018	Advertisement	Email	Energy Audit e-blast	Home Performance with ENRGY STAR benefits/opportunities e-blast to 53,885 subscribers	Residential gas customers	Whole house weatherization and efficiency improvements	Residential	No	No	No
2/1/2018	2018		Bill insert sent to 71,500 natural gas customers	Home Performance with ENERGY STAR & Visual Audit Bill Insert	HPwES/Visual Audit bill insert educating customers on program benefits and enrollment	LU residential natural gas customers	Air sealing, insulation, Instant Savings Measures, visual audit, and 2% & 0% financing options	Residential	No	No	No
2/9/2018	2018	Event	Concord	Business & Industry Association Small Business Day	Business to Business energy discussions with NHSaves staff at Exhibitor table	Small business owners and managers, chambers of commerce, business	LU's electric and gas measures	C&I	No	No	No
2/14/2018	2018	Advertisement	Direct Mail	Energy Audit Mailer	Home Performance with ENRGY STAR benefits/opportunities mailer to 46,568 residential gas customers	associations Residential gas customers	Whole house weatherization and efficiency improvements, 2% financing	Residential	No	No	No
2/15/2018	2018	Advertisement	Email Newsletter	3 Options for Multiple Boiler Control	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
2/15/2018	2018	Advertisement	Email Newsletter	Quiz: How Energy Efficient Are You?	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
2/16/2018	2018	Training	Laconia	Building Operator Certification	Building Operator Training on all energy savings	Business Facility Managers and Staff	All EE measures	C&I	No	No	No
2/28/2018	2018	Event	Durham	NH Association of School Business Officials- Facilities Masters Conference	School Facilities Managers' topics of interest	Northern New England school facilities managers	All EE measures	C&I	No	No	Yes
3/2/2018	2018	Training	Laconia	Building Operator Certification	Building Operator Training on all energy savings	Lakes Region Community College, facility managers	All EE measures	C&I	No	No	No
3/12/2018	2018	Event	Keene	NH Energy Week	Business to Business energy discussions with NHSaves staff at Exhibitor table	Keene government officials, community leaders, energy/business professionals	All EE measures	C&I	No	No	No
3/12/2018	2018	Event	Concord	NH Energy Week	Business to Business energy discussions at Exhibitor table	Non-profits, energy and business professionals	All EE measures	C&I	No	No	No
3/16/2018		, and the second	Laconia	Building Operator Certification	Building Operator Training on all energy savings	Business Facility Managers and Staff	All EE measures	C&I	No	No	No
3/20/2018			Email Newsletter	5 Ways to Make Your Meetings Short (and Save Energy)	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
3/20/2018			Email Newsletter	5 Ways to Save While Spring Cleaning	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
4/3/2018			Plymouth	Grafton Regional Development Corp.	small business EE workshop	Grafton small businesses	All EE measures	C&I	No	No	No
4/3/2018			Plymouth	Grafton Regional Development Corp.	small business EE workshop	Grafton small businesses	All EE measures	C&I	No	No	No
4/4/2018			Concord	Mill Brooke School Tour	NEEP Healthy Schools presentation	School administrators	All EE measures	C&I	No	No	Yes
4/10/2018	2018	Advertisement	Email	Visual Audit e-blast	Highlights and benefits of Visual Audit program sent to 53,007 subscribers	Residential gas customers	Wi-Fi T-Stats, low flow devices, pipe wrap, LEDs	Residential	No	No	No
4/10/2018			Concord	REPA-NH (Residential Energy Professional Associations)	EE program presentation	Energy performance professionals	All EE measures	C&I	No	No	No
4/14/2018	2018	Event	Wilton	EE at Souhegan Sustainability Fair	EE Table/Booth Setup	Home owners	Benefits of purchasing ENERGY STAR certified products and appliances and available rebates	Residential	No	No	No
4/19/2018			Email Newsletter	Can HVAC Upgrades Improve Worker Performance?	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
4/19/2018			Email Newsletter	Liberty is Offering FREE Energy Saving Products	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
4/19/2018			Concord	State Employee Manager Presentation	EE program presentation	State employees (managers)	All EE measures	C&I	No	No	Yes
4/25/2018			Pelham	Town of Pelham Open House	EE Table/Booth Setup	Town officials and residents	All EE measures	C&I	No	No	Yes
4/26/2018	2018	Event	Greenland	EE at Lowe's Spring Pro Event	EE Table/Booth Setup	Home owners	Benefits of purchasing ENERGY STAR certified products and appliances and available rebates	Residential	No	No	No
5/2/2018	2018	Event	Concord	NHBSR Spring Conference	Business to Business energy discussions with NHSaves staff at Exhibitor table	Businesses supporting sustainable/socially responsible operations	All EE measures	C&I	No	No	No

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Launch Date	Year	Advertising, Event or Training?	Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted	Market Segment	Promotion of Stricter Building Codes?	Education to Builders?	State/Local Offici & Associations
5/3/2018	2018	Training	Manchester	Energy Codes and Zero Energy Homes Training	EE program presentation	Residential home builders, municipal officials, architects, people building homes	Reduced energy loads, high efficiency building shells, mechanical systems, domestic hot water, renewables	Residential	Yes	Yes	No
5/3/2018	2018	Training	Manchester	Energy Codes and Zero Energy Homes Training	EE program presentation	Residential home builders, municipal officials, architects, people building homes	Reduced energy loads, high efficiency building shells, mechanical systems, domestic hot water, renewables	Residential	Yes	Yes	No
5/11/2018		Event	Pembroke	NH State Employee Conference	EE Table/Booth Setup	State employees	All EE measures	C&I	No	No	Yes
5/12/2018	2018	Event	Nottingham	Nottingham Earth Day Festival	EE Table/Booth Setup	Home owners	Benefits of purchasing ENERGY STAR certified products and appliances and available rebates, refrigerator and freezer recycling program	Residential	No	No	No
5/16/2018	2018	Event	Concord	NHDES Pollution Prevention Training	EE Presentation for Businesses at NHDES	New Hampshire businesses in pollution prevention	All EE measures	C&I	No	No	Yes
5/17/2018	2018	Advertisement	Email Newsletter	Innovations Fuel Process Heating Efficiency	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
5/17/2018	2018	Advertisement	Email Newsletter	Infographic: Tips for Cool Summer Savings	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
5/17/2018	2018	Training	Atkinson	Energy Codes and Zero Energy Homes Training	EE program presentation	Residential home builders, municipal officials, architects, people building homes	Reduced energy loads, high efficiency building shells, mechanical systems, domestic hot water, renewables	Residential	Yes	Yes	No
5/24/2018	2016	Training	Center Harbor	<u>Button Up Workshop</u>	EE program presentation	1 1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and NHSaves energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	Yes
6/1/2018	2018	Event	Loudon	<u>Green Your Fleet</u>	EV event with NHDES-4 utility tables	Businesses interested in electric cars and trucks	All EE measures	C&I	No	No	Yes
6/19/2018			Email Newsletter	Improve Health & Comfort with Gas-Fired Dehumidification	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
6/19/2018			Email Newsletter	5 Ways to Save While Doing Laundry	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
7/2/2018			Online Key Word Search Ads	Pay Per Click Text Ads	Program Awareness and recognition: 7/2 through 8/20		All EE measures	Residential	No	No	No
7/2/2018			Social Media	Paid Facebook Ad (Boosted Posts)	Program Awareness and recognition: 7/2 through 8/20		All EE measures	Residential	No	No	No
7/2/2018	2018	Advertisement	Social Media	Programmatic Native	Targeting Tactics: Combination of targeting those searching for relevant content related to saving on energy, cutting costs, etc. as well as retargeting those who visit the website: 7/2 through 8/20	Demo: Homeowners 25+ Geo: New Hampshire	Energy efficiency tips	Residential	No	No	No
7/13/2018	2018	Advertisement	Direct Mail	Keene Energy Audit Mailer	Home Performance with ENERGY STAR informational letter sent to 710 residential customers	New Residential Keene customers	Whole house weatherization and efficiency improvements, 2% financing	Residential	No	No	No
7/18/2018	2018	Advertisement	Email	Gas Home Performance Summer Promotion e- blast	Home Performance with ENERGY STAR promo for 75% rebate or 0% financing sent to $^\sim$ 57,000 subscribers	Residential gas customers	Whole house weatherization and efficiency improvements	Residential	No	No	No
7/19/2018	2018	Advertisement	Email Newsletter	5 Ways to Save During Non-Business Hours	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
7/19/2018			Email Newsletter	Remodeling? Build In Energy Efficiency	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
8/6/2018			Concord	NEC Roundtable with AIA	NH American Institute of Architects energy discussion	TNC/Warren Street Architects	All EE measures	C&I	No	No	No
8/16/2018	2018	Advertisement	Email Newsletter	Video: Improve Comfort & Reduce Costs with Circulating Fans	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No

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Launch Date	Year Advertising, Event or Training?	Type/Location of Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted	Market Segment	Promotion of Stricter Building Codes?	Education to Builders?	State/Local Office & Association
8/16/2018	2018 Advertisement	Email Newsletter	Smarter Living with Smart Thermostats	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
8/25/2018 8/27/2018	2018 Training 2018 Advertisement	Remote Online Key Word Search Ads	Code Webinar - LES/NHSaves Programmatic Native	Code Webinar - GDS/DES/NHSaves EE Tips Promotion from 8/27 through 10/22	Business owners and managers Demo: Homeowners 25+ Geo: New Hampshire	All EE measures Targeting Tactics: Combination of targeting those searching for relevant content related to saving on energy, cutting costs, etc. as well as retargeting those who visit the website	C&I Residential	Yes No	Yes No	No No
9/12/2018	2018 Training	Meredith	Residential Code Workshop	EE program presentation	Residential home builders, municipal officials, architects, people building homes	Reduced energy loads, high efficiency building shells, mechanical systems, domestic hot water, renewables	Residential	Yes	Yes	No
9/13/2018	2018 Event	Manchester	The Granite Group Heating Trade Show	Heating Systems Supply House and Heating Contractors show	Plumbing, heating, cooling, water & propane supplies specialists	All EE measures	C&I	No	Yes	No
9/13/2018	2018 Training	Manchester	The Granite Group Heating Trade Show	Heating Systems Supply House and Heating Contractors show	Plumbing, heating, cooling, water & propane supplies specialists	All EE measures	C&I	No	Yes	No
9/18/2018	2018 Training	Gorham	Residential Energy Code Training	NHSaves Presentation	Residential home builders, municipal officials, architects, people building homes	Reduced energy loads, high efficiency building shells, mechanical systems, domestic hot water, renewables. Guest speaker Joe Harnois of Harber Construction.	Residential	Yes	Yes	No
9/18/2018	2018 Training	Gorham	Residential Energy Code Training	EE program presentation	Residential home builders, municipal officials, architects, people building homes	Reduced energy loads, high efficiency building shells, mechanical systems, domestic hot water, renewables. Guest speaker Joe Harnois of Harber Construction.	Residential	Yes	Yes	Yes
9/20/2018	2018 Event	Portsmouth	North East Electric Distributers Tradeshow	Electric Supply House and Electrical Contractors	Electrical distributors, electricians	All EE measures	C&I	No	Yes	No
9/20/2018	2018 Training	Portsmouth	North East Electric Distributers Tradeshow	Electric Supply House and Electrical Contractors show	Electrical distributors, electricians	All EE measures	C&I	No	Yes	No
9/25/2018	2018 Advertisement	Email Newsletter	Smart Thermostats: 5 Benefits for Your Business		LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
9/25/2018	2018 Advertisement	Email Newsletter	Fall for Energy Savings	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
9/27/2018	2018 Event	Canaan	Mascoma Valley Energy and Sustainability Expo	Energy related event	Upper Valley town energy committees, building professionals, community members	Weatherization, high efficiency heating	C&I	No	Yes	Yes
9/29/2018	2018 Training	Caanan	Button Up Workshop	EE program presentation	1 1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and NHSaves energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	Yes
10/1/2018	2018 Advertisement	Online Key Word Search Ads	Pay Per Click Text Ads	Promote content via ongoing Pay-Per-Click campaign	Residents of NH	All EE measures	Residential	No	No	No
10/1/2018	2018 Advertisement	Social Media	Paid Facebook & YouTube (Boosted Posts)	Program Awareness and recognition	Demo: Adults 25+, NH homeowners	All EE measures	Residential	No	No	No
10/1/2018	2018 Advertisement	Social Media	Facebook- Adults 25+ alternative homeowner behavior targeting	Video, Banners, Quiz	Demo: Adults 25+, alternative homeowner behavior targeting	All EE measures	Residential	No	No	No
10/1/2018	2018 Advertisement	Social Media	Instagram - Adults 25-40 Estimated Audience Size: 130,000	Video, Banners, Quiz	Demo: Adults 25-40 Estimated Audience Size: 130,000	All EE measures	Residential	No	No	No
10/1/2018	2018 Advertisement	Social Media	YouTube - Adults 18+ Estimated Views: 270,000 - 655,000	(:06) / (:15) Videos	Demo: Adults 18+ Estimated Views: 270,000 - 655,000	All EE measures	Residential	No	No	No

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Launch Date	Year	Advertising, Event or Training?	Type/Location of Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted	Market Segment	Promotion of Stricter Building Codes?	Education to Builders?	State/Local Officia & Associations?
10/2/2018	2018	Training	Newmarket		NHSaves Presentation to Newmarket Energy and Environment Advisory Committee, The Newmarket Area Centennial Lions Club and Jonny Boston's International, Plymouth Area Renewable Energy Initiative	improving the energy efficiency of your home. It covers energy saving	improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	Yes
10/10/2018	2018	Training	Hampton	Residential Energy Code Training	EE program presentation		Reduced energy loads, high efficiency building shells, mechanical systems, domestic hot water, renewables. Guest speaker Jeffrey Cantara, Solar Design Specialist of ReVision Energy.	Residential	Yes	Yes	No
10/10/2018	2018	Training	Hampton	Residential Energy Code Training	EE program presentation		Reduced energy loads, high efficiency building shells, mechanical systems, domestic hot water, renewables. Guest speaker Jeffrey Cantara, Solar Design Specialist of ReVision Energy.	Residential	Yes	Yes	Yes
10/16/2018	2018	Training	West Lebanon	C&I Codes Training Workshop	EE program presentation	Builders, architects, contractors and sub contractors	Building codes	C&I	Yes	Yes	Yes
10/18/2018	2018	Advertisement	Email Newsletter	Coming Up For Air: Improving Combustion Efficiency			All EE measures	C&I	No	No	No
10/18/2018	2018	Advertisement	Email Newsletter			LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
10/22/2018	2018	Advertisement	Radio	Radio Program Awareness	30 second spot on WHOM, NHPR, WXRV, WFNX, WXRG, WLKC	Residential customers	All EE measures	Residential	No	No	No
10/22/2018	2018	Training	Canterbury		EE Presentation to Canterbury Town Energy Committee, Plymouth Area Renewable Energy Initiative	1 1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	Yes
10/24/2018	2018	Advertisement	Social Media	Visual Audit promotion via Facebook and Twitter channels	Highlights and benefits of Visual Audit program	Facebook and Twitter followers	Wi-Fi T-Stats, low flow devices, pipe wrap, LEDs	Residential	No	No	No
10/29/2018	2018	Advertisement	Internet Radio	Pandora	(:30) Audio	Demo: Adults 25+ and home owners, apartment/condo renters & owners Estimated Reach: 113,799	All EE measures	Residential	No	No	No
10/30/2018	2018	Training	Manchester	GDS C&I Codes	Building Energy Codes Workshop	Builders, architects, contractors and sub	Building codes	C&I	Yes	Yes	Yes
10/30/2018	2018	Training	Concord		Overview of EE programs: NH School administrators association of School Business Officials (NHASBO)	School superintendents	Lighting, HVAC and weatherization	C&I	No	No	Yes
11/1/2018	2018	Training	Holderness	Button Up Workshop	EE Presentation to Holderness Energy Committee, Squam Lakes Association, Plymouth Area Renewable Energy Initiative	improving the energy efficiency of	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	Yes
11/2/2018	2018	Event	Concord	Advanced Manufacturing Conference	NHMEP Governor's Conference	Politicians, energy professionals, business professionals, manufacturing professionals	All EE measures	C&I	No	No	No
		Event	Nashua	NHRLA Annual Dinner	Upgrade Table and Full Page Ad		All EE measures	C&I	No	No	No

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Launch Date	Year	Advertising, Event or Training?	Type/Location of Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted	Market Segment	Promotion of Stricter Building Codes?	Education to Builders?	State/Local Officials & Associations?
11/8/2018	2018	Training	Laconia		EE Presentation to Lakes Region Community College, Plymouth Area Renewable Energy Initiative	1 1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	Yes
11/14/2018 11/15/2018			Manchester Email		discounts with Utility rebate special to 64,559	Municipal officials Residential gas customers	All EE measures Wi-Fi T-Stats	C&I Residential	No No	No No	Yes No
11/15/2018	2018	Event	Manchester		subscribers New Hampshire Municipal Association	Municipal officials, other non-profits	All EE measures	C&I	No	No	Yes
11/16/2018	2018	Training	Manchester	Compressed Air Training	LU EE and CES Event	Compressed air installers	All EE measures	C&I	No	No	No
11/16/2018		Event	Concord		EE Workshop and 1 pitch to the group	Politicians/lobbyists, non-profits, energy and business professionals	All EE measures	Residential	No	No	Yes
11/20/2018	2018	Advertisement	Email Newsletter	ABC's of Boiler Control	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
11/20/2018	2018	Advertisement	Email Newsletter	Revealed! 6 Hidden Sources of Home Energy Loss	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
11/26/2018	2018	Advertisement	Email		E-blast for Ecobee and Nest manufacturer discounts with Utility rebate special to 64,559 subscribers	Residential gas customers	Wi-Fi T-Stats	Residential	No	No	No
11/27/2018	2018	Training	Rindge/Fitzwilliam	Button Up Workshop	EE presentation	1 L/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and energy efficiency programs	improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	No
11/28/2018	2018	Training	Lee	Button Up Workshop	EE presentation	1 1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	No
11/28/2018	2018	Training	Warren	Button Up Workshop	EE presentation	1 1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	No
11/28/2018	2018	Training	Bedford/Hillsborough	Button Up Workshop	EE presentation	1 1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	No
12/19/2018	2018	Advertisement	Email Newsletter	Boiler Maintenance: 5 Critical Practices for Optimizing Efficiency	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
12/19/2018	2018	Advertisement	Email Newsletter	Is EE on Your Holiday Gift List?	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No

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Launch Date	Year	Advertising, Event or Training?	Type/Location of Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted	Market Segment	Promotion of Stricter Building Codes?	Education to Builders?	State/Local Offi & Association
12/28/2018	2018	Advertisement	Direct Mail	Home Energy Assistance/Visual Audit Mailer	HEA Mailer detailing program benefits sent to 3,443 low income gas customers	the low income rate	Air sealing, insulation, heating systems, appliances, Instant Savings Measures, visual audit	Residential	No	No	No
1/1/2019	2019	Advertisement	Bill Insert	House Feeling Drafty? (NH Saves residential offerings for 2019)	LU delivered to all Gas Customers	LU Gas & Electric Customers	All EE measures	Residential	No	No	No
1/8/2019	2019	Event	Concord	Business After Hours - Concord NH Chamber	Business to Business networking	Small business owners and General Contractors	All EE measures	C&I	No	Yes	No
1/13/2019	2019	Advertisement	Social media	Franklin School project case study	Facebook/Twitter	Local Commercial Online Traffic	All EE measures	C&I	No	No	No
1/17/2019		Advertisement	Email Newsletter	What's the Difference? Direct vs. Indirect Gas- Fired Heaters	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
1/17/2019	2019	Advertisement	Email Newsletter	Infographic: Breaking Down Home Energy Use	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
1/17/2019	2019	Training	Webinar	Virtual NHSaves Button Up Workshop	Weatherization webinar with Q&A session to	NH Residents	Weatherization	Residential	No	No	No
4 /4 0 /2 04 0	2010	Advertisement	Coolel accelle	Outline Mandardana Bararatian Count	panel and staff	III Contrare and Local Berldential	Course Theorem state	Desidential	No	No	No
1/18/2019			Social media	Online Marketplace Promotion - Smart Thermostat	Facebook/Twitter	LU Customers and Local Residential Online Traffic	Smart Thermostats	Residential			
1/22/2019	2019		City Hall, Concord	Concord 100% Renewable Energy Strategic Plan Stakeholder Committee Meeting	Discussions on all things energy related.	Non-profits, energy and business professionals	All EE measures	C&I	Yes	Yes	Yes
1/23/2019		Advertisement	Social media	HPwES Program promotion	Facebook/Twitter	Local Residential Online Traffic	Weatherization	Residential	No	No	No
1/24/2019		Advertisement	Social media	Smart Thermostat promotion	Facebook/Twitter	Local Residential Online Traffic	NHSaves Gas	Residential	No	No	No
1/30/2019	2019	Training	Nashua	Training w/Wxn Contractor Turn Cycle Solutions	Surveyor/OTTER	Contractor	HPWES	Residential	No	No	No
1/31/2019	2019	Advertisement	Social media	Online Marketplace promotion of Smart Thermostats	Facebook/Twitter	Local Residential Online Traffic	All EE measures	Residential	No	No	No
1/31/2019	2019	Advertisement	Social media	HPwES Program promotion	Facebook/Twitter	Local Residential Online Traffic	HPWES	Residential	No	No	No
2/1/2019	2019	Training	Keene State College	1-Day Building Operator Class	Building Operator Training on all energy savings	Business Facility Managers and Staff	All EE measures	C&I	No	No	No
2/5/2019	2019	Event	State Legislative Office	State Legislative Office - Hearing on HB318	Summary presentation of company's EE programs and efforts ongoing to promote to customers	State Legislature	All EE measures	Both	No	No	Yes
2/7/2019	2019	Advertisement	Social media	Free Energy Savings Measures	Facebook/Twitter	Local Residential Online Traffic	HPwES	Residential	No	No	No
2/8/2019	2019	Event	Barley House	Concord Chamber of Commerce Local Government Affairs	Business to Business networking	Non-profits, energy and business professionals	All EE measures	C&I	Yes	Yes	Yes
2/13/2019	2019	Training	Roundabout Diner, Portsmouth	1-Day Building Operator Class	Building Operator Training on all energy savings	Business Facility Managers and Staff	All EE measures	C&I	No	No	No
2/13/2019	2019	Event	Concord	Business After Hours Networking & Promotion event	Business to Business networking	Small business owners and General Contractors	All EE measures	C&I	No	Yes	Yes
2/15/2019	2019	Advertisement	Social media	Smart Thermostat promotion	Facebook/Twitter	Local Residential Online Traffic	Smart Thermostats	Residential	No	No	No
2/15/2019		Training	Concord	14th Annual Small Business Day - NHBIA	Learn about small business solutions	Small business managers	All EE measures	C&I	No	No	No
2/19/2019		Advertisement	Social media	Energy Efficiency Online Tools	Facebook/Twitter	Local Residential Online Traffic	All EE measures	Residential	No	No	No
2/20/2019		Advertisement	Nashua	State of the City Breakfast - Nashua Chamber of Commerce		Business Leaders	All EE measures	C&I	No	Yes	Yes
2/21/2019	2019	Advertisement	Email Newsletter	Video: Maximize Boiler Control with an EMS	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
2/21/2019	2019	Advertisement	Email Newsletter	5 Ways to Start Saving Energy Today	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
2/21/2019	2019	Training	Concord	AIA-NH	Business to Business networking	Architects and General Contractors	All EE measures	C&I	No	No	No
2/22/2019		Advertisement	Social Advertisement	Energy Efficiency Online Tools	Facebook/Twitter	Local Residential Online Traffic	All EE measures	Residential	No	No	No
2/27/2019		Training	Durham	NH Association of School Business Officials- Facilities Masters Conference	School Facilities Managers' topics of interest		All EE measures	C&I	No	No	No
3/1/2019	2019	Advertisement	Bill Insert	Free Energy-Saving Equipment (Visual Audit)	LU delivered to all Gas Customers	LU Gas Customers	All EE measures	Residential	No	No	No
3/1/2019	2019	Training	Puritan Back Room	1-Day Building Operator Class	Building Operator Training on all energy savings	Business Facility Managers and Staff	All EE measures	C&I	No	No	No
3/8/2019	2019	Training	Doubletree by Hilton, Manchester	New Hampshire State Home Show	Education outreach to contractors and industry associations	NH Residents, Contractors, and Industry Associations	All EE measures	Both	No	No	Yes
3/12/2019	2019	Event	Concord	Business After Hours - Concord NH Chamber	Business to Business networking		All EE measures	C&I	No	No	Yes
3/14/2019	2019	Training	Common Man, Plymouth	1-Day Building Operator Class	Building Operator Training on all energy savings	Business Facility Managers and Staff	All EE measures	C&I	No	No	No
3/22/2019	2019	Advertisement	Email Newsletter	Save Energy With Efficient Water Heating	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
3/22/2019	2019	Advertisement	Email Newsletter	Home Appliances: The Biggest Energy Users	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
3/25/2019	2019	Training	Pease Tradeport in Portsmouth, NH	Energy Week Event: NH Energy Roundtable	How companies are addressing their energy needs, featuring leading experts & company	Non-profits, energy and business professionals	All EE measures	C&I	No	No	Yes
2/26/2216	201-	Advertisement	Contal and	Consults Book AULGATISCS	representatives	Level Berlderstel O. II. 7	AU 55	Desident :	No	No	No
3/26/2019	2019	Auvertisement	Social media	General EE Post - NH SAVES Partnership	Facebook/Twitter	Local Residential Online Traffic	All EE measures	Residential	INU	INO	INU

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Launch Date	Year	Advertising, Event or Training?	Type/Location of Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted	Market Segment	Promotion of Stricter Building Codes?	Education to Builders?	State/Local Official & Associations?
3/26/2019	2019	Training	OracleDyn in Manchester	Energy Week Event: Emerging Energy Needs Forum	Discussion on the emerging energy needs in NH's largest city & modern approaches to meeting those	Non-profits, energy and business professionals	All EE measures	C&I	No	No	Yes
					needs						
3/27/2019	2019	Training	NH CIBOR - Bedford NH	NHCIBOR Statewide Meeting	Discussion about current commercial, industrial and municipal opportunities in the state	Commercial lenders, commercial brokers, and other interested parties	All EE measures	C&I	No	No	No
3/27/2019	2019	Training	City Hall	City of Concord	100% Renewable Energy Strategic Plan Stakeholder Committee Meeting	Non-profits, energy and business professionals	All EE measures	C&I	No	No	Yes
3/27/2019	2019	Training	Salt Hill Pub in Newport	Energy Week Event: NH Energy Roundtable	Discussion on the emerging energy needs in NH's largest city & modern approaches to meeting those needs	Non-profits, energy and business professionals	All EE measures	C&I	No	No	Yes
3/28/2019	2019	Training	Grappone Conference Center in Concord	Energy Week Event: NH Energy Breakfast	Discussion with a major offshore wind developer & panel of high-level representatives discussing how the regional grid, energy users, utilities, & generators		All EE measures	C&I	No	No	Yes
3/28/2019	2019	Training	Jenkins Estatein	Energy Week Event: Awards Ceremony & Reception	NH Energy Awards for Business, Municipal, & Legislative Energy Champions	Non-profits, energy and business professionals	All EE measures	C&I	No	No	Yes
3/28/2019	2019	Training	Concord Currier Museum of Art	AIA NH Design Awards	35th Annual Excellence in Design Awards	Non-profits, energy and business	All EE measures	C&I	No	No	Yes
4/1/2019	2019	Advertisement	WGIR AM Radio	Weatherization Radio Advertisement - Winter & Summer Campaign	iHeart Media: recurring radio spot placement from April through December 2019	professionals LU Customers and Local Commercial and Residential Online Traffic	All EE measures	Residential	No	No	No
4/2/2019	2019	Training	White Birch Brewing in Nashua	1.0	Local energy stories from businesses & municipalities	Non-profits, energy and business professionals	All EE measures	C&I	No	No	Yes
4/11/2019	2019	Training	LAARS Manufacturing	ASHRAE CHP Event	Combined heat and power technology, tour of boiler manufacturing facility	Engineers, Manufacturers, distributors	All EE measures	C&I	No	No	No
4/11/2019		Training	Nashua		Surveyor/OTTER	Residential Electric Customers	HPWES	Residential	No	No	No
4/11/2019	2019	Event	Holiday Inn Concord NH	State of the City - Concord Chamber of Commerce	Update on economic activity with networking prior and following presentation	Non-profits, energy and business professionals	All EE measures	C&I	No	No	Yes
4/15/2019	2019	Advertisement	Social media	Video about HPwES program	Facebook/Twitter	Local Residential Online Traffic	HPWES	Residential	No	No	No
4/17/2019	2019		Concord City Wide		Business to Business networking	Non-profits, energy and business	All EE measures	C&I	No	No	Yes
4/19/2019	2019	Training	Community Center NH Healthcare	of Commerce NHSHFM Monthly Meeting	Building commissioning for healthcare facilities	professionals Healthcare facilities managers,	All EE measures	C&I	No	No	No
4/22/2019	2019	Advertisement	Association Email Newsletter	Boilers: Repair or Replace?	Monthly E-Newsletter	contractors, general contractors LU Customers and C&I Gas Online	All EE measures	C&I	No	No	No
						Traffic					
4/22/2019 4/22/2019		Advertisement Advertisement	Social media E-blast	Earth Day - Thermostat Rebate Smart Thermostats Make Saving Energy Easier	Facebook/Twitter Questline	Local Residential Online Traffic  Local Residential Online Traffic	Smart Thermostats Smart Thermostats	Residential Residential	No No	No No	No No
4/22/2019		Advertisement	Email Newsletter	Go Green This Earh Day	Monthly E-Newsletter	LU Customers and Residential Gas	All EE measures	Residential	No	No	No
4/22/2019	2019		Applebee's Nashua	Turn Cycle Solutions	EE program participation and identification of	Online Traffic Weatherization contractor	Weatherization	C&I	No	No	No
		Training	FW Webb	·	resources EE program participation and identification of		All EE measures	C&I	Yes	No	No
4/24/2019				Commercial Energy Codes Training	resources	Business Facility Managers and Staff	All EE measures	C&I			No
4/24/2019	2019	Training	NH CIBOR - Beatora NH	NHCIBOR Statewide Meeting	Discussion about current commercial, industrial and municipal opportunities in the state	Commercial lenders, commercial brokers, and other interested parties	All EE measures	C&I	No	No	NO
4/30/2019 5/1/2019		Training Advertisement	Londonderry Bill Insert	P&M Income Eligible EE Programs & New NH Saves Logo	Wx 101 LU delivered to all Gas Customers	Residential Electric Customers LU Gas Customers	HPWES/HEA HEA	Residential Residential	No No	No No	No No
5/1/2019	2019	Advertisement	Cable Television	Weatherization Cable TV Advertisement - Winter & Summer Campaign	Comcast: recurring Cable TV spot placement from April through December 2019	LU Customers and Local Commercial and Residential Online Traffic	HPWES	Residential	No	No	No
5/1/2019	2019	Advertisement	Digital Billboard	Weatherization Digital Billboard Advertisement - Winter & Summer Campaign	Outfront Media: recurring digital billboard placement from May through December 2019	LU Customers and Local Commercial and Residential Online Traffic	HPWES	Residential	No	No	No
5/1/2019	2019	Advertisement	Community Billboard	Weatherization Community Billboard Advertisement - Winter & Summer Campaign	Outfront Media: recurring community billboard placement from May through December 2019	LU Customers and Local Commercial and Residential Community	HPWES	Residential	No	No	No
5/1/2019	2019	Advertisement	Streaming Radio - Pandora	Weatherization Streaming Radio Advertisement - Winter & Summer Campaign	iHeart Media: recurring online streaming radio advertisement from May through December 2019	LU Customers and Local Commercial and Residential Online Traffic	HPwES	Residential	No	No	No
5/1/2019	2019	Training	Marriott Courtyard Concord NH	NHBSR Spring Conference	EE program participation and identification of resources	Business Facility Managers and Staff	All EE measures	C&I	No	No	No
5/2/2019	2019	Event	Fitzemeyer & Tocci	Trade Ally Meeting with Fitzemeyer & Tocci	EE program participation and identification of resources	Full service mechanical engineering firm	All EE measures	C&I	No	No	No
5/3/2019	2019			Trade Ally Meeting with A.W. Rose Construction	EE program participation and identification of resources	General contractor trade ally	All EE measures	C&I	No	Yes	No
5/3/2019	2019	Event	Jay Lee, Berkshire Hathaway	Commercial Lender Trade Ally	EE program participation and identification of resources	Commercial Broker	All EE measures	C&I	No	No	No

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Of 6/1/2020											
aunch Date	Year	Advertising, Event or Training?	Type/Location of Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted	Market Segment	Promotion of Stricter Building Codes?	Education to Builders?	State/Local O & Association
5/6/2019	2019	Training	City Hall, Concord	Concord 100% Renewables Listening Session	Discussions on all things energy related.	Non-profits, energy and business professionals	All EE measures	C&I	No	No	Yes
5/9/2019	2019		Mill Brook Primary School	ASHRAE Monthly Meeting	EE program participation and identification of resources	Local engineer trades association	All EE measures	C&I	No	No	No
5/10/2019	2019	Training	Newton	Invictus	EE Program overview	Spray Foam Insulation Contractor and Residential Gas Customers	HPWES	Residential	No	No	No
5/10/2019		Training	Center	2019 State Energy Conference	resources	State facilities staff and administrators		C&I	No	No	Yes
5/14/2019		Event	Manchester	identification of resources	resources	Contractor EEI Representatives	All EE measures	C&I	No	No	No
5/14/2019		Training	Heights		EE program participation and identification of resources	Non-profits, energy and business professionals	All EE measures	C&I		No	Yes
5/15/2019			Social media			Local Residential Online Traffic	Weatherization	Residential	No	No	No
5/16/2019		Training	Franklin	Franklin WWTP Award and Tour		personal	All EE measures	C&I	No	No	Yes
5/17/2019			of Commerce	EE programs overview presentation		State and municipal staff, and facilities personal		Residential	No	No	Yes
5/20/2019		Training	Concord	Turn Cycle Solutions		Contractor	HPWES	Residential	No	No	No
5/21/2019			Email Newsletter	Free Software Calculates Energy Savings of Steam System Insulation		LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No		No
5/21/2019			Email Newsletter Email	5 Ways to Get Your Home Ready for Summer  Promotion of visual audit offeing		LU Customers and Residential Gas Online Traffic Local Residential Online Traffic	All EE measures Visual audit	Residential Residential	No No	-	No No
5/22/2019			Email	Promotion of Visual audit offering  Promotion of HPWES program		Local Residential Online Traffic	HPwFS	Residential			No
5/30/2019			6 Eastpoint Dr., Hooksett	Eckhardt & Johnson	EE Program Participation	HVAC Contractor	All EE measures	C&I			No
6/1/2019	2019	Advertisement	Bus Wrap	Weatherization Bus Wrap Advertisement - Winter & Summer Campaign	ATA Outdoor Media: recurring bus wrap advertisement from June through December 2019	LU Customers and Local Commercial and Residential Online Traffic	HPWES	Residential	No	No	No
6/1/2019	2019	Training	Various Locations	Commercial Equipment Heating Equipment Dealer Visits in June		Deluca Brothers, Kittredge Equipment, NH Restarant Equipment, Perkins/Gordon Food Service, Pitco	Commercial Food Service Equipment (CFSE) rebate program	C&I	No	No	No
6/5/2019	2019	Advertisement	Email	Fathers Day Thermostat Rebate	Special smart thermostat promotion	Local Residential Online Traffic	Smart Thermostats	Residential	No	No	No
6/5/2019			Derry	Derry Solar Summit	Promotion of EE programs to attendees	Derry Netzero Task Force/municipal staff, and Derry/Londonderry businesses	All EE measures	Both	No	No	Yes
6/6/2019	2019	Event	Concord Chamber of Commerce	EE programs overview presentation	Promotion of EE programs to attendees	State and municipal staff, and facilities personal	All EE measures	C&I	No	No	No
6/6/2019	2019	Training	Concord Chamber of Commerce	Pinnacle Awards		State and municiple staff, and facilities personal	All EE measures	Both	No	No	Yes
6/6/2019	2019		Associated Builders & Contractors	ABC Innovation in Education		Architects, Municipal Staff and General Contractors	All EE measures	C&I	No	Yes	Yes
6/12/2019		Event	Manchester	Oliver Mechanical		HVAC Contractor	All EE measures	C&I	No		No
6/13/2019		Training	AIA-NH	AIA COTE Summit	1 0	NH architects	All EE measures	C&I	No		No
6/18/2019			Facebook/Twitter	Fathers Day Thermostat Rebate	Facebook/Twitter	Local Residential Online Traffic	Smart Thermostats	Residential			No
6/18/2019			Email Newsletter	Thermostats: What's the Difference?	,	LU Customers and Residential Gas Online Traffic	All EE measures	Residential			No
6/18/2019			Londonderry Charlestown	Walter F. Morris Company	Promotion of EE programs to attendees  Mobile home weatherization	Manufacturers Rep	All EE measures HEA	C&I Residential	No No	No No	No No
6/18/2019 6/19/2019		Training Training	Newton	Claremont Spray Foam Invictus		Residential Electric Customers Residential Electric Customers	HPWES	Residential			No
6/20/2019		Training	Net Zero Task Force	Derry Muni Meeting		Municipal Staff	All EE measures	Both			Yes
6/20/2019				Sierra Club Municipal Conference		Muni Staff	All EE measures	Both			Yes
6/26/2019			Facebook/Twitter	HPwES Video - A/C Unit	Facebook/Twitter	Local Residential Online Traffic	HPWES	Residential	No		No
6/26/2019			Business and Economic			State Staff	All EE measures	C&I	No	No	No
6/26/2019			Business and Economic			State Staff	All EE measures	Both			Yes
6/27/2019			Email				Smart Thermostats	Residential	No		No
6/27/2019			6 Eastpoint Dr.,	Eckhardt & Johnson		HVAC Contractor	All EE measures	C&I	No	No	No
6/28/2019			Social media	Facebook/Twitter: HPwES Video - A/C Unit		Local Residential Online Traffic	HPwES	Residential	No		No
6/28/2019			Social media	Facebook/Twitter: 4th of July promo - Google		Local Residential Online Traffic	Smart Thermostats	Residential	No		No
7/2/2019			Social media	4th of July promo - Google Home mini and NEST		Local Residential Online Traffic	Smart Thermostats	Residential	No		No
7/2/2019	2019	Event	CENH Home Office	Clean Energy NH Open House		Contractors, manufacturer, distributor, city officials, Architects, engineers	All EE measures	C&I	No	No	Yes
	2019	Training	CENH Home Office	Clean Energy NH Open House	Networking event	Contractors, manufacturer, distributor, city officials, Architects, engineers	All EE measures	C&I	No	Yes	Yes
7/2/2010						· ·					
7/2/2019 7/11/2019		Advertisement	Social media	Special Rebates for Gas Customers	Facebook/Twitter	Local Residential Online Traffic	All FF measures	Residential	No	No	No
7/2/2019 7/11/2019 7/11/2019	2019	Advertisement Event	Social media Walter F. Morris	Special Rebates for Gas Customers Joint NHSaves - Walter Morris Flyer	Facebook/Twitter Marketing Meeting	Local Residential Online Traffic Marketing Staff	All EE measures All EE measures	Residential C&I	No No		No No

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aunch Date	Year Advertising, Event or Training?	Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted		Promotion of Stricter Building Codes?	Builders?	& Association
7/11/2019	2019 Event	Londonderry	Promotion of EE programs to attendees	Promotion of EE programs to attendees	Marketing Staff	All EE measures	C&I	No	No	No
7/16/2019	2019 Advertisement	Email Newsletter	A Whole Building Approach to EE	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&i	No	No	No
7/16/2019	2019 Advertisement	Email Newsletter	HVAC Systems: 4 Hidden Energy Costs		LU Customers and C&I Gas Online Traffic	All EE measures	C&I	No	No	No
7/16/2019	2019 Advertisement	Facebook/Twitter	HPwES Summer Promotion	Facebook/Twitter	Local Commercial and Residential Online Traffic	HPWES	Residential	No	No	No
7/16/2019	2019 Advertisement	Email Newsletter	Video: 5 Ways to Save with Smart Home Technology		LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
7/18/2019	2019 Training	Johnson's (Northwood)	Lunch meeting w/ Yankee Thermal Imaging	Review of EE program eligibility to attendees	Jamie Polchies- estimator/auditor	All EE measures	C&I	No	No	No
7/19/2019	2019 Event	RBG office	Promotion of EE programs to attendees	Promotion of EE programs to attendees	Don Perrin	All EE measures	C&I	No	No	Yes
7/19/2019	2019 Training	RBG office	Meeting with State of NH	Review of EE program eligibility to attendees	Don Perrin	All FF measures	C&I	No	No	Yes
7/23/2019	2019 Event	Londonderry	USGBC Summer Meet-up	Networking event with LEED professionals	Builders, architects, and designers	All FF measures	C&I	No	Yes	Yes
	2019 Training	Concord	Rotary Presentation		Business owners and municiple leaders	==	Both	No	No	Yes
7/23/2019							ļ			
7/23/2019	2019 Training	Concord	Rotary Presentation		Business owners and municipal leaders		Both	No	No	Yes
7/24/2019	2019 Event	Bedford NH	NH CIBOR Statewide Meeting	Promotion of EE programs to attendees	Commercial brokers, bankers,	All EE measures	C&I	No	No	No
7/24/2019	2019 Event	New Canaan	Dave Gooding Company		Trade Ally Contact	All EE measures	C&I	No	No	No
7/24/2019	2019 Training	Bedford NH	NH CIBOR Statewide Meeting	Promotion of EE programs to attendees	Commerical brokers, bankers,	All EE measures	C&I	No	No	No
7/25/2019		F.W. Webb -	Vendor Counter Day	Tabling the F.W. Webb counter and speaking with		Heating Systems	C&I	No	No	No
7/26/2019	2019 Event	Gilford	NHSHFM Summer Outing	Networking event with Hospital staff and general		All EE measures	C&I	No	No	No
7/26/2019	2019 Event	Sunapee	CENH Summer Outing	Networking event with Clean energy membership	Trade Ally Contacts and customers	All EE measures	C&I	No	No	Yes
7/31/2019	2019 Training	Concord	LU Gas audit	Audit of Heritage Harley Davidson	LU Gas Customer	Gas Audit	C&I	No	No	No
8/1/2019	2019 Event	Bedford	Fulcrum Trade Ally Meeting	Meeting With Fulcrum	General contractor trade ally	All EE measures	C&I	No	No	No
8/2/2019		Email	Promotion of visual audit offeing	Promotion of visual audit offering	LU Customers and Local Residential Online Traffic	Visual audit	Residential	No	No	No
8/2/2019	2019 Event	Manchester	Second Wind Water Systems	Meeting with Secondwind Water Systems	Specialty services trade ally	All EE measures	C&I	No	No	No
8/3/2019	2019 Training	New Canaan	Dave Gooding Company	Educating manufactures rep. on the NHSaves program	Trade Ally Contact	All EE measures	C&I	No	No	No
8/5/2019	2019 Training	Windham	Meeting with The Dubay Group	Meeting to review 42 Nashua Road project	Engineer	All EE measures	C&I	No	No	No
8/8/2019	2019 Advertisement	Social media	Explanation of the Energy Audit Process	Facebook/Twitter	Local Residential Online Traffic	HPWFS	Residential	No	No	No
0/0/2019	2019 Training	Derry	NHCIBOR Summer Mixer	Meeting with the commercial realtors and	see previous.	All EE measures	C&I	No	No	No
8/8/2019 8/8/2019	2019 Training	Manchester	HPWES Energy Audit	lenders group in central NH On-Boarding Discussion	Invictus	HPWFS	Residential	No	No	No
8/8/2019	2019 Training	Concord	REPA - Update on building Codes	Update on newly adopted 2015 building codes	Energy efficiency companies, and	All EE measures	C&I	Yes	No	No
8/13/2019	2019 Hallillig	Concord	REPA - Opuate on building codes	with amendments		All EE Illeasures	Cai	res	NO	INO
8/14/2019	2019 Event	Concord	Key Account Building Walk-through	Meet with Jason Teaster, facilities director for NH	facilities managers Key Account	All EE measures	C&I	No	No	No
8/14/2019	2019 Event	Concord	Meeting with Peter Mikolaczuk of Air Purchases/	Hospital. NHSaves Program	Territory Manager-HVAC	All EE measures	C&I	No	No	No
. / /	2019 Training	Concord	Engel HVAC Breakfast Club meeting	Networking	Commercial lender, HVAC distributor, other members	All EE measures	C&I	No	No	No
8/14/2019									ļ	ļ <u>.</u> .
8/15/2019	2019 Event 2019 Training	Manchester Lebanon		EE program presentation Seminar focused on large energy projects with NH	Kevin Smith, Facilities Manager Hospital facilities staff	All EE measures All EE measures	C&I C&I	No No	No No	No No
8/16/2019	2010 T1-1	6	Managers Seminar	hospitals		AU 55	COL	N.		ļ
8/20/2019	2019 Training	Concord	NHSaves Presentation at North Branch	EE program presentation	Program managers, president	All EE measures	C&I	No	No	No
8/21/2019	2019 Training	Concord	ABC Party in the Park	Associated Builders and Contractors summer event	Builders, trade contractors, property management companies	All EE measures	C&I	No	Yes	No
8/22/2019	2019 Training	Manchester	Business After Hours- Manchester COC	TF Moran BAH	Manchester COC, TF Moran, Builders	All EE measures	C&I	No	Yes	Yes
8/27/2019		Concord	Lunch meeting with Anne Copp- Commercial Realtor	EE program training	Anne Copp, Commercial realtor	All EE measures	C&I	No	No	No
8/28/2019	2019 Training	Derry	Meeting with Derry Econ Dev	EE program training	Bev Donovan, Econ Dev Manager	All EE measures	Both	No	No	No
8/28/2019	2019 Training	Concord	Breakfast Club meeting	EE program presentation	Commercial lender, HVAC distributor, other members	All EE measures	C&I	No	No	No
8/29/2019	2019 Advertisement	Email Newsletter	Simple Steps to Lower Natural Gas Bills	Monthly e-newsletter distribution - 08/29/19	LU Customers and Local Commercial Online Traffic	All EE measures	C&I	No	No	No
8/29/2019	2019 Advertisement	Email Newsletter	Smart Thermostats Make Saving Energy Easier	Monthly e-newsletter distribution - 04/12/19	LU Customers and Local Residential Online Traffic	All EE measures	Residential	No	No	No
9/1/2019	2019 Advertisement	Bill Insert	Promotion of low-coset Energy Savings Measures	LU delivered to all Gas Customers	LU Gas Customers	Visual audit	Residential	No	No	No
9/1/2019	2019 Advertisement	Email	Promotion of low-coset Energy Savings Measures	LU delivered to all Gas Customers with email addresses	LU Gas Customers	Visual audit	Residential	No	No	No
9/10/2019	2019 Event	Nashua	Meeting with Horizon and Invictus	HPwES/Energy Audit	Horizon and Affiliates	HPwES/HEA	Residential	No	No	No
9/10/2019	2019 Training	Nashua	Invictus HPwES Energy Audit	EE Program training	Invictus	HPWES/HEA	Residential	No	No	No
9/11/2019	2019 Training	Concord	Concord Professionals Breakfast Club meeting	Networking	Commercial lender, HVAC distributor, other members	All EE measures	C&I	No	No	No
9/11/2019	2019 Training	Concord	Plan NH Business After Hours	Networking	Contractors, etc.	All EE measures	C&I	No	No	No
9/11/2019	2019 Event	Concord	Concord Professionals Breakfast Club Meeting	Networking	Commercial lenders, HVAC distributors, and other members		C&I	No	No	Yes
0/11/0010	2019 Event	Concord	Plan NH Business After Hours	Networking	Commercial lenders, HVAC distributors,	All EE measures	C&I	No	No	Yes
9/11/2019										

9/12/2019 20	Advertising, Even or Training? 019 Event 019 Event 019 Event	Tactic Manchester	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted	Market Segment	Promotion of Stricter Building Codes?	Education to Builders?	
9/12/2019 20 9/12/2019 20	or Training? D19 Event D19 Event	Tactic Manchester		Details	Key Audiences/Participants	EE Measures Promoted	Market Segment			
9/12/2019 20	019 Event							building codes:		& Association
		Dondolph 844	Granite Group Trade Show	Conference and Networking	HVAC techs, contractors, etc.	All EE measures	C&I	Yes	No	No
9/16/2019 20	019 Event	Randolph, MA	GasNetworks Annual Conference	Conference and Networking	HVAC techs, contractors, etc.	All EE measures	C&I	Yes	No	Yes
		Various Locations	2019 Energy Code Workshop Series	Eventbrite Registration - Commercial and Residential Code Series Discussions in September and October	Residential and Commercial Contractors	All EE measures	C&I	Yes	Yes	No
9/16/2019 20	019 Event	Manchester	New Contract Response	Total Climate Control	Horizon and Affiliates	HPWFS	Residential	No	No	No
	019 Advertisement	Email Newsletter	Take Building Performance to the Next Level	Article: Take Building Performance to the Next	LU Customers and Local Commercial	All EE measures	C&I	No	Yes	No
	019 Advertisement	Email Newsletter	INFOGRAPHIC: Preparing for a Home Energy	Level INFOGRAPHIC: Preparing for a Home Energy	Online Traffic  LU Customers and Local Residential	All EE measures	Residential	No	No	No
			Audit	Audit	Online Traffic			No	No	
	019 Event	Concord	NH School Administrators Conference	Energy Summit	Directors of Buildings and Grounds	All EE measures	C&I			Yes
	019 Advertisement	Social media	Special Rebates for Gas Customers	Facebook/Twitter	LU Customers and Local Commercial and Residential Online Traffic	All EE measures	Residential	No	No	No
9/18/2019 20	019 Training	Concord	NH School Administrators Conference	Conference & Networking Day 2	Director of Buildings & Grounds	All EE measures	C&I	No	No	No
9/23/2019 20	019 Event	Concord	NH Energy Summit	Energy Summit	Energy Industry Professionals	All EE measures	C&I	No	No	Yes
20	019 Training	FW Webb Company Distribution Center, 10 Webb Dr., Londonderry	2019 Energy Code Workshop Series	Exploring changes to energy code in NH	Residential Buidling Construction Industry	All EE measures	Residential	Yes	Yes	No
9/24/2019										
9/25/2019 20	019 Advertisement	Social media	Helping Schools and Towns Save through Rebates & Incentives	Facebook/Twitter	LU Customers and Local Commercial and Residential Online Traffic	All EE measures	C&I	No	No	No
9/25/2019 20	019 Training	Concord	Meeting with Matt Moore- CCSNH	EE Programs training	Dir of Capitol Improvement Projects	All EE measures	C&I	No	No	No
	019 Event	Derry	Chamber Business Before Hours	Presentation of EE programs	Chamber members and President of Chamber	All EE measures	C&I	No	No	Yes
9/26/2019 20	019 Event	Concord	Associated Builders and Contractors	Business after Hours - Young Professional Group -	Contractors, HVAC techs, engineers,	All EE measures	C&I	No	Yes	No
				ABC	etc.				l	1
9/26/2019	019 Training	Manchester	Tri-City Expo	Expo- walked around to vendors	Contractors, property management companies, etc.	All EE measures	C&I	No	No	No
9/26/2019	019 Training	Concord	ABC YPG BAH	Business After Hours- Young Professional Group- ABC	Contractors IIV/AC tacks angineers at	All FF maggings	C&I	No	No	No
					Contractors, HVAC techs, engineers,etc.					
	019 Training	Hooksett	NHSaves Lunch & Learn	PROCON Lunch & Learn	Project managers, estimators, etc.	All EE measures	C&I	No	No	No
	019 Event	Manchester	Jones Boy New Contract Response	New Contract	Horizon and Affiliates	HPWES/HEA	Residential	No	No	No
	019 Advertisement	Bill Insert	How EE can help your energy bill	LU delivered to all Gas Customers	LU Gas Customers	All EE measures	Residential	No	No	No
	019 Training	Concord	State of NH Employee Training	Energy Efficiency	Project managers, estimators, etc.	All EE measures	C&I	No	No	No
10/1/2019	019 Training	Front St., Exeter	2019 Energy Code Workshop Series	Exploring changes to energy code in NH	Residential Buidling Construction Industry	All EE measures	Residential	Yes	Yes	No
	019 Training	Concord	NHSaves Lunch & Learn	HL Turner	Project managers, estimators, etc.	All EE measures	C&I	No	No	No
	019 Event	669 Union St., Manchester	NHSaves Button Up	UU Fellowship Hall	Homeowners, general public	All EE measures	Residential	No	No	No
10/8/2019	019 Training	FW Webb Company Distribution Center, 10 Webb Dr., Londonderry	2019 Energy Code Workshop Series	Exploring changes to energy code in NH	Commercial Construction Industry	All EE measures	C&I	Yes	Yes	No
	019 Event	Goffstown	Key Account Meeting	Key Account Meeting with Mike Lencki,	Purchasing Manager	All EE measures	C&I	No	No	No
20	019 Training			Hillsborough County Nursing Home	Commercial lender, HVAC distributor,		C&I	No	No	No
10/9/2019		Concord	Breakfast Club meeting	Networking	other members	All EE measures				
10/10/2019 20	019 Advertisement	Social media	What does weakening EPA regulations mean?	Facebook/Twitter	LU Customers and Local Commercial and Residential Online Traffic	All EE measures	Both	Yes	No	No
10/10/2019 20	019 Event	Dracut	Key Account Meeting	Key Account Meeting with Bob Norkiewicz, Brox Industries	Plant Manager	All EE measures	C&I	No	No	No
	019 Training	Church Landing at Mill Falls/Laker Room, 312 Daniel Webster Hwy, Meredith	2019 Energy Code Workshop Series	Exploring changes to energy code in NH	Residential Buidling Construction Industry	All EE measures	Residential	Yes	Yes	No
	019 Training			Discussion about developments in the capital city						
10/10/2019		Concord	Concord Chamber: Building Forum	area	COC members, city officials, architects	All EE measures	C&I	No	Yes	Yes
	019 Training	Lebanon	Meeting with Atlantic Electrical Distributors	NH Saves Program	Distribution Representatives	All EE measures	C&I	No	No	No
10/15/2019 20	019 Advertisement	Email Newsletter	INFOGRAPHIC: Getting Your Facility Ready for Winter	Monthly E-Newsletter	Gas Key Accounts	All EE measures	C&I	No	No	No
10/15/2019 20	019 Advertisement	Email Newsletter	Photo Essay: Energy Saving Tips for Fall	Monthly E-Newsletter	LU Customers and Local Commercial and Residential Online Traffic	All EE measures	Residential	No	No	No
10/15/2019	019 Training	Woodstock Inn Brewery, 135 Main Street, North Woodstock, NH	2019 Energy Code Workshop Series	Exploring changes to energy code in NH	Commercial Construction Industry	All EE measures	C&I	Yes	Yes	No
20	019 Training				Young Professionals in various industries, met Steve Duprey, local		C&I	No	No	No
10/16/2019		Concord	CYPN- Concord Young Professionals	CYPN Networking Night	developer	All EE measures				
10/16/2019 20	019 Training	Nashua	Turn Cycle Solutions	Surveyor/OTTER	Contractor and New Staff	All EE measures	Residential	No	No	No
	019 Training					All EE measures				
10/17/2019		Hartford, VT	Landlords Energy Efficiency Conference	Meeting of commercial and residential landlords	commercial and residential landlords		Both	No	No	No

5 C /4 /2020					I						raye 12 (
of 6/1/2020 aunch Date	Year	Advertising, Event	Type/Location of	Title of Tactic	Details	Van Andianasa/Dartisinasta	EE Measures Promoted	Market Comment	Promotion of Stricter	Education to	State/Local Of
unch Date		or Training?	Tactic			Key Audiences/Participants	EE Measures Promoted	iviarket Segment	Building Codes?	Builders?	& Associati
10/18/2019	2019	Training	Nashua	NH Society of Healthcare Facility Managers (NHSHFM)	Gave overview of technically assistance funding to NH hospital facility mangers.	Hospital facility managers	All EE measures	C&I	No	No	No
10/23/2019	2019	Training	Portsmouth	NHSaves Lunch & Learn	TMS Architects - AIA lunch and learn series	Architects	All EE measures	C&I	No	Yes	No
10/24/2019		Event	95 Canal Street,	BAE Systems Energy Expo	Table at Expo to present NHSaves	BAE Employees	All EE measures	Residential	No	No	no
	2019	Training	Nashua, NH		Official opening of first net zero affordable	Developer, Contractor, funders,					
10/25/2019		Ü	Lebanon	Tracy St Multi-Family Ribbon Cutting	housing development in NH	Government Reps	All EE measures	C&I	No	No	Yes
	2019	Training				Politicians, energy professionals,	All EE measures				
10/31/2019			Concord	Advanced Manufacturing Conference	NHMEP Governor's Conference	business professionals, manufacturing professionals		C&I	No	No	Yes
11/1/2019	2019	Advertisement	Bill Insert	Home Feeling Drafty? We Can Help!	LU delivered to all Gas Customers	LU Gas Customers	All EE measures	Residential	No	No	No
	2019	Training	Weatherize Guyz,				HPwES				
11/5/2019	2010	Event	Derry, NH Manchester	Contractor meeting with Horizon CCSNH Meeting at MCC	Surveyor/OTTER Review MCC project	Contractor and LU Vendor Colby Co. Engineering and Matt Moore	All FF management	Residential C&I	No Yes	No No	No Yes
11/5/2019	2019	Event	Manchester	CCSNH Meeting at MCC	Review MCC project	Colby Co. Engineering and Matt Moore	All Et measures	C&I	res	INO	res
/= /00.0	2019	Event	Concord	Department of Admin Services Meeting	Status update on projects and future planned	Don Perrin	All EE measures	C&I	No	No	Yes
11/5/2019	2019	Training	Invictus Spray, Newton,		projects		HPwFS				
11/8/2019	2013	um.g	NH	Contractor meeting with Horizon	Support for HPwES Program Development	Contractor and LU Vendor	4125	Residential	No	No	No
	2019	Training	Concord	REPA Meeting- Sense	Training on Sense home monitoring device	Energy efficiency companies, and	All EE measures	C&I	No	No	No
11/12/2019	2019	Training				facilities managers  Lakes Region Community College	All EE measures	C&I	No	No	No
	2013	Training				Trainging for Facility Managers, COOs,	All LE Illeasures	Cai	140	140	140
11/13/2019			Airport Holiday Inn, Manchester	Efficient Heating and Cooling for Commercial Building Managers	Learn how to control energy costs and maximize EE Incentives	building operators and sustainability officers					
	2019	Event	Manchester			Municipal employees	All EE measures	C&I	No	no	Yes
11/14/2019		A di continuo anno			Municipal Association's 78th Annual Conference			C&I	No	Yes	No
11/15/2019	2019	Advertisement	Email Newsletter	Energy Smart Boiler Maintenance	Monthly E-Newsletter	LU Customers and C&I Gas Online Traffic	All EE measures	C&I	NO	res	INO
11/15/2019	2019	Advertisement	Email Newsletter	Busted! 3 Common Myths About Home Heating	Monthly E-Newsletter	LU Customers and Residential Gas Online Traffic	All EE measures	Residential	No	No	No
(. = (0.0.0	2019	Training	Concord Grappone	Clean Energy NH- Local Energy Solutions	Grappone Conference Center	Energy professionals, contractors,	All EE measures	C&I	No	Yes	Yes
11/15/2019	2019	Training	Conference Ctr	Conference		business professionals, politicians	All EE measures	Residential	No	Yes	No
		· ·	Turn Curlo Calutions		Energy Audit and work order review; identifying						
/ /			Turn Cycle Solutions,		health and safety hazards, thermal imaging and						
11/18/2019	2040	Event	Concord, NH Concord	Field Training with Horizon	worst case spillage testing.	Contractors and LU Vendor School Officials	All EE measures	C&I	Yes		Yes
11/18/2019 11/19/2019		Advertisement	LU Website	Concord School SAU #8 Meeting Black Friday - Thermostats	SAU 8 project review Social Media	Local Commercial Online Traffic	EE Gas Measures	Residential	No	no No	No
11/15/2015		Training	LO WEDSILE	Black Filliay - File III Ustats	Learn how to control energy costs and maximize	Lakes Region Community College Trainging for Facility Managers, COOs, building operators and sustainability	All EE measures	C&I	No	No	No
11/19/2019				Energy Efficiency for Restaurants and Hopitality	NHSaves Incentives	officers					
11/20/2019	2019	Event	Peterborough, NH	Button Up Workshop	EE program presentation	1 1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and NHSaves energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	No
11/20/2019		Event	Orange, NH	Button Up Workshop	EE program presentation	1 1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and NHSaves energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	No
	2019	Training	Pembroke	State of NH EE Training	EE Training	State employees, facilities managers,	All EE measures	C&I	No	Yes	No
11/20/2019						building operators, NHSaves employees					
	2019	Training	Concord	Energy Efficiency Training- Heating and Cooling- State of NH Employees	HVAC training	State employees, facilities managers, building operators, NHSaves employees	All EE measures	C&I	Yes	no	Yes
11/20/2019	2019	Training	Concord	Community Development Finance Authority	Grant Applicants training	Grant Applicants	All EE measures	C&I	Yes	Yes	No
11/21/2019		-	Concord	(CDFA) Grant Meeting			All EE measures	C&I	No	Voc	
11/21/2019	2019	Training	CONCORD	ASHRAE @ Red Blazer	President of ASHRAE presentation on Integrated Building Design	Local engineer trades association	All EE measures	Cal	INU	Yes	Yes
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aunch Date	Year	Advertising, Event or Training?	Type/Location of Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted	Market Segment	Promotion of Stricter Building Codes?	Education to Builders?	State/Local Off & Association
44 (27 (2040	2019	Event	Concord	Breakfast Club meeting	Networking	Commercial lender, HVAC distributor,	All EE measures	C&I	Yes	No	No
11/27/2019	2019	Training	Conference Call	Non-Lighting Upstream C&I Subcommittee Meeting	4th Wednesday of every month	other members Joint Utilities	EE Gas Measures	C&I	No	No	No
11/27/2019	2019	Training	Bedford NH	NH CIBOR Statewide Meeting	NHSaves Program	Commerical brokers, bankers, engineers, affiliates	All EE measures	C&I	no	No	No
11/28/2019	2019	Advertisement	LU Website	Black Friday - Thermostats	Social Media	Local Commercial Online Traffic	EE Gas Measures	Residential	No	No	No
		Advertisement	Liberty Utilities -	Looking to Increase Comfort at Home?	Bill Insert	LU Gas & Electric Customers	EE Gas Measures	Residential	No	No	No
12/1/2019			Internal Marketing								
12/4/2019	2019	Event	Gilmanton, NH	Button Up Workshop	EE program presentation	1.12 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and NHSaves energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	No
12/4/2019	2019	Event	Concord	USGBC - NH 10th Anniversary	10th anniversary celebration for NH chapter of the USGBC	Energy efficiency companies, and facilities managers	All EE measures	C&I	no	No	Yes
12/5/2019	2019	Training	Manchester	BIA Energy Symposium	BIA (statewide Chamber of Commerce) Energy symposium. Brought together energy professionals for a day long seminar.	Energy Performance professionals	All EE measures	C&I	No	No	Yes
12/3/2019	2019	Training	Concord	REPA Monthly Meeting	Peter Yost presented on roof venting, etc.	Energy efficiency companies, and	All EE measures	C&I	No	Yes	No
12/10/2019		_				facilities managers				NI-	
12/11/2019		Event Advertisement	Manchester Questline	CENH Member Holiday Dinner Busted! 3 Common Myths About Home Heating	Annual holiday dinner	Energy Performance professionals Local Commercial Online Traffic	All EE measures EE Gas Measures	C&I Residential	no No	No No	No No
12/15/2019	2019	Auvertisement	Questime	Busted! 3 Common Myths About Home Heating	EDIASE	Local Commercial Online Transc	EE Gas Measures	Residential	140	140	140
12/15/2019	2019	Advertisement	Questline	Energy Smart Boiler Maintenance	Eblast	Local Commercial Online Traffic	EE Gas Measures	C&I	No	Yes	No
	2019	Event	Concord	Breakfast Club meeting	Networking	Commercial lender, HVAC distributor,	All EE measures	C&I	No	No	No
12/18/2019						other members					
12/19/2019		Training	Bedford NH	Franklin Energy Meeting	NH Saves Program	C&I Vendor Reps	All EE measures	C&I	No	No	No
12/20/2019	2019	Training	Manchester	Monthly HEA/HPWES Utility Meeting with Joint Utilities	Discuss Measures for 2020	Joint Utilities	All EE measures	C&I and Residential	No	No	No
12/24/2019	2019	Training	Manchester	Utility Monthly Products Meeting	Discuss Measures for 2020 - 4th Tuesday of Every Month	Joint Utilities	All EE measures	C&I and Residential	No	No	No
1/1/2020		Advertisement	Questline	Reasons Why Your Furnace Turns on and Off Constantly; Video: You Can Prevent Freezing Pipes; Visual Audit Link	Eblast	Local Residential Online Traffic	EE Gas Measures	Residential	No	No	No
1/1/2020	2020	Advertisement	Questline	Considering a Smart Thermostat? Now's the Timel; Facilities Win with Natural Gas; Infographic: Gas Train Control; Reciprocating Gas Engines Power Hybrid Microgrids; Infographic: Menu fors an Energy-Efficient Kitchen	Eblast	Local Commercial Online Traffic	EE Gas Measures	C&I	No	No	No
1/1/2020	2020	Advertisement	Liberty Utilities - Internal Marketing	NHSAVES: Your Source for Energy Efficiency	Bill Insert	LU Gas Customer	EE Gas Measures	Residential	No	No	No
1/8/2020		Event	F.W. Webb- Concord	Breakfast Club Networking	Networking	Networking	EE Gas Measures	C&I and Residential	Yes	Yes	Yes
1/8/2020		Event	F.W. Webb- Concord	Breakfast Club Networking	Networking	Commercial lender, HVAC distributor, other members	EE Gas measures	C&I and Residential	Yes	Yes	Yes
1/10/2020	2020	Training	Eversource	Energy Park	Preparation for Meetings with VEIC and EESE Board	Joint Utilities	All EE measures	C&I	No	No	No
1/14/2020	2020	Event	Concord	REPA Monthly Training	Air-source heat pumps	Air-source heat pumps	EE Gas Measures	C&I and Residential	No	No	No
1/14/2020	2020	Event	Concord	REPA Monthly Training	Air-source heat pumps	Contractors	EE Gas Measures	C&I and Residential	No	No	No
1/14/2020	2020	Training	Eversource	Small Business Working Session	NH Saves Program Design	Joint Utilities	All EE measures	C&I and Residential	No	No	No
1/15/2020		Event	Bedford	NHCIBOR Meeting	Statewide Marketing Meeting	Statewide Marketing Meeting	EE Gas Measures	C&I and Residential	No	No	No
1/15/2020		Event	Bedford	NHCIBOR Meeting	Statewide Marketing Meeting	Joint Utilities	EE Gas Measures	C&I and Residential	No	No	No
1 /1 5 /2020	2020	Training		2020 Energy Stor Homes Web Off Market	2010 Perious and 2020 C!-	Joint Utilities	All EE measures	C&I and	No	No	No
1/15/2020 1/16/2020	2020	Training	Eversource Merrimack, NH	2020 Energy Star Homes Kick Off Meeting Wx Crew Training	2019 Review and 2020 Goals Blower Door Guided Air Sealing	Contractors	All EE measures	Residential Residential	No No	No Yes	No
1/17/2020		Event	New London Hospital	NH Society of Health Facility Managers (NHSHFM)	Above-Ceiling Program	Contractors and Facility Representatives	EE Gas Measures	C&I	Yes	Yes	No
1/17/2020	2020	Event	New London Hospital	NH Society of Health Facility Managers (NHSHFM)	Above-Ceiling Program	Above-Ceiling Program	EE Gas Measures	C&I	Yes	Yes	No
1/21/2020	2020	Advertisement	Newsletter	Considering a Smart Thermostat	Questline	Questline	EE Gas Measures	Residential	No	No	No

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aunch Date	Year	Advertising, Event or Training?	Type/Location of Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted		Promotion of Stricter Building Codes?	Builders?	& Associations?
1/24/2020	2020	Event	Concord	Breakfast with Joe Campbell (North Branch)	Review of NHSaves programs, 2020 program, etc.	Commercial lender, HVAC distributor, other members	EE Gas Measures	C&I	Yes	Yes	No
1/24/2020	2020	Event	Manchester	NH Foodbank Walk-Through and Presentation	Walk-through and presentation to Chefs and COO	Joint Utilities	EE Gas Measures	C&I	Yes	No	No
1/24/2020	2020	Event	Concord	Breakfast with Joe Campbell (North Branch)	Review of NHSaves programs, 2020 program, etc.	Review of NHSaves programs, 2020 program, etc.	EE Gas Measures	C&I	Yes	Yes	No
1/24/2020	2020	Event	Manchester	NH Foodbank Walk-Through and Presentation	Walk-through and presentation to Chefs and COO		EE Gas Measures	C&I	Yes	No	No
1/24/2020	2020		Bedford	Breakfast with Marie (AFE Chair)	Networking, review of AFE trade group	AFE Trade Group	EE Gas Measures	C&I			Yes
1/24/2020	2020	Event	Bedford	Breakfast with Marie (AFE Chair)	Networking, review of AFE trade group	Networking, review of AFE trade group	EE Gas Measures	C&I	No	No	Yes
1/25/2020	2020	Advertisement	Facebook/Twitter	Button Up Workshop - Wilmot	Social Media	Social Media	EE Gas & Electric Measures	Residential	No	No	No
1/25/2020	2020	Event	Wilmot, NH	Button Up Workshop		1 1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and NHSaves energy efficiency programs	improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	No
1/29/2020	2020	Event	Derry	Association for Facilities Engineering	Monthly Meeting	Joint Utilities and Contractors	EE Gas Measures	C&I	No	No	Yes
	2020		Derry	Business After Hours		Small business owners and General	All EE measures	C&I			Yes
1/29/2020	2020	Event	Derry	Association for Facilities Engineering	Monthly Meeting	Contractors Monthly Meeting	EE Gas Measures	C&I and Residential	No	No	Yes
1/29/2020	2020	Event	Derry	Business After Hours	Monthly Networking	Monthly Networking	EE Gas Measures	C&I and	No	No	Yes
1/29/2020 2/1/2020	2020	Advertisement	Questline	5 Ways to Lower Your Heating Costs; 4 Reasons Why Your Filter Isn't Filtering Air; Power Play: Energy Crossword Puzzle; Visual Audit Link	Eblast	Local Commercial Online Traffic	EE Gas Measures	Residential Residential	No	No	No
2/1/2020	2020	Advertisement	Questline	The Rising Stars of Natural Gas; Switching to Natural Gas Vehicles: Advice from the Experts; Process Heating: Identifying and Reducing Energy Waste; Who Wants To Be An Energy Expert? Natural Gas;	Eblast	Local Commercial Online Traffic	EE Gas Measures	C&I	No	Yes	No
2/1/2020	2020		Liberty Utilities - Internal Marketing	House Feeling Drafty? We Can Fix That	Bill Insert	LU Gas Customers	EE Gas Measures	Residential	No	No	No
2/1/2020	2020	Advertisement	Bill Insert residential gas customers	Home Performance with ENERGY STAR	Promoting the HPwES program	Residential gas customers	air sealing, imsulation,	Residential	No	No	No
2/1/2020	2020		Newbury, NH	Button Up Workshop	EE program presentation	1 1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and NHSaves energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	No
2/4/2020	2020	Event	Concord	InTown Concord Town Hall Meeting	Town Hall Meeting- Façade Grant Program	Town Hall Meeting- Façade Grant Program	EE Gas Measures	C&I and Residential	No	No	Yes
2/5/2020	2020	Event	Laconia	Lakes Region Community Developers- Compass House Ribbon Cutting	Ribbon Cutting- Compass House	Ribbon Cutting- Compass House	EE Gas Measures	C&I and Residential	No	No	Yes
2,312020	2020	Event	Grantham, NH	Button Up Workshop		1 1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and NHSaves energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	No
2/8/2020 2/11/2020	2020	Event	Concord	REPA Monthly Training	Energy Efficiency Policy (EERS)	Energy Efficiency Policy (EERS)	EE Gas Measures	C&I and Residential	No	No	No

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Launch Date	Year Advertising, Ev	Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted		Building Codes?	Builders?	& Associations?
2/15/2020	2020 Event	New London, NH	Button Up Workshop	EE program presentation	1.12 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and NHSaves energy efficiency programs	improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	No
2/15/2020	2020 Event	Concord	Concord City Energy & Environment Advisory Committee meeting	Energy & Environment Advisory Committee Meeting	Energy & Environment Advisory Committee Meeting	EE Gas Measures	C&I	Yes	No	Yes
2/19/2020	2020 Event	North Andover, MA	AFE Monthly Meeting	Boston Med Flight Tour	Boston Med Flight Tour	EE Gas Measures	C&I	No	No	Yes
2/20/2020	2020 Event	Hooksett	BNI Meeting	NE Tap House Grille	NE Tap House Grille	EE Gas Measures	C&I	No	No	Yes
2/21/2020	2020 Event	Newington	NHCIBOR- Seacoast Marketing Meeting	NHCIBOR Meeting	NHCIBOR Meeting	EE Gas Measures	C&I	No	No	Yes
2/22/2020	2020 Event	New London, NH	Button Up Workshop	EE program presentation	1.1/2 hour presentation about improving the energy efficiency of your home. It covers energy saving tips and NHSaves energy efficiency programs	Improve the energy efficiency of your home, basic building science principles, examples of whole house weatherization measures, energy audits and weatherization, rebates	Residential	No	No	No
2/24/2020	2020 Advertisement	Sidebar in Questline e- newsletter	Visual audit	Promoting the visual audit	Residential gas customers	Wi-Fi T-Stat, LEDs, water saving measures, piep wrap	Residential	No	No	No
	2020 Event	Milford	HBP New Hampshire Trade Show	Harvey Building Products, Trade Show	Harvey Building Products, Trade Show	EE Gas Measures	C&I	Yes	Yes	No
2/26/2020	2020 Event	Bedford	NHCIBOR						l	
2/26/2020	2020 Event	Salem	NNEFMC (Northern New England Facility	NHCIBOR Meeting Conference for school facility managers	NHCIBOR Meeting  Conference for school facility managers	EE Gas Measures	C&I	No Yes	No No	Yes Yes
2/26/2020	2020 Event	Salem	Masters Conference)	Conference for school facility managers	Conference for school facility managers	EE Gas ivieasures	Cal	res	INO	res
3/1/2020	2020 Advertisement	Questline	Energy Monitoring Systems Provide Real-Time Savings; Office Buildings: Energy and Cost Saving Strategies; Cybersecurity: Are Your Systems Up to Standard; 4 Women Who Changed the Tech Industry	Eblast	Local Commercial Online Traffic	EE Gas Measures	Residential	No	No	No
3/1/2020	2020 Advertisement	Questline	Savings; 5 Key Safety Measures for CNG Vehicle Maintenance Facilities; The Benefits of Boiler Condensate Recovery; 4 Women Who Changed the Tech Industry	Eblast	Local Commercial Online Traffic	EE Gas Measures	C&I	No	Yes	No
3/1/2020	2020 Advertisement	Liberty Utilities - Internal Marketing	Free Energy Saving Equipment	Bill Insert	LU Gas Customers	EE Gas Measures	Residential	No	No	No
3/4/2020	2020 Event	Manchester	NH Business for Social Responsibility (NHBSR) Awards Night	Sustainability Awards Event	Sustainability Awards Event	EE Gas Measures	C&I	No	No	Yes
3/5/2020	2020 Event	Concord	NHSaves Business Partner Rollout	NHSaves event	NHSaves event	EE Gas & Electric Measures	C&I	Yes	Yes	No
3/10/2020	2020 Event	Concord	REPA Monthly Training	Installation of fenestration products & 475 High Performance Building Supply	Installation of fenestration products & 475 High Performance Building Supply	EE Gas Measures	C&I and Residential	No	Yes	No
3/11/2020	2020 Event	Concord	Breakfast Club Networking	Networking	Networking	EE Gas Measures	C&I and Residential	No	Yes	Yes
4/1/2020	2020 Advertisement	Questline	NH EE Covid-19 Contingency Plan; 6 Ways to Save this Spring; Money Savers Low Flow Showerhead; Keep This Planet Green for Me and You	Eblast	Local Commercial Online Traffic	EE Gas Measures	Residential	No	No	No
4/1/2020	2020 Advertisement	Questline	Covid-19 Information; Steam Systems: Keep the Pressure On and Save; CNG: Powering the Fleets of Tomorrow; 3 Options for Natural Gas Cooling; 811: Call Before You Dig	Eblast	Local Commercial Online Traffic	EE Gas Measures	C&I	No	Yes	No
4/23/2020	2020 Advertisement	Questline	We Are Here With You - Ecobee Earth Day - Rebate Incentive Program	Eblast	Local Commercial Online Traffic	EE Gas Measures	Residential	No	No	No
	2020 Advertisement	Questline		Eblast	Local Commercial Online Traffic	EE Gas Measures	Residential	No	No	No
5/1/2020			S.SSiler, neady to big: Call OII							

As of 6/1/2020											
Launch Date	Year	Advertising, Event or Training?	Type/Location of Tactic	Title of Tactic	Details	Key Audiences/Participants	EE Measures Promoted	Market Segment	Promotion of Stricter Building Codes?	Education to Builders?	State/Local Officials & Associations?
5/1/2020		Advertisement	Questline	Covid-19 Information; Stay Cool with Natural Gas; Combined Heat and Power Without the Investment; Double-Effect Absorption Chillers: A Breakdown; Excess Air in Gas Burners: How Much is Too Much?	Eblast	Local Commercial Online Traffic	EE Gas Measures	C&I	No	Yes	No
5/1/2020			Liberty Utilities - Internal Marketing	Weatherization on a Budget	Bill Insert	LU Gas Customers	EE Gas Measures	Residential	No	No	No
6/1/2020		Advertisement	Questline	Summer Living: Staying Cool Upstairs is a Breeze; Do Dishwashers Use More Energy Than Hand Washing? Weather Wisdom: Temperature and Sleep; Fact or Fable? Summer Solstice		Local Commercial Online Traffic	EE Gas Measures	Residential	No	No	No
6/1/2020	2020	Advertisement	Questline	Microgrids Power Up with Natural Gas; Cooling Problems? Natural Gas Can Solve Them; Capture Savings with Drain Water Heat Recovery; Safety First: Using Natural Gas in the Workplace	Eblast	Local Commercial Online Traffic	EE Gas Measures	C&I	No	Yes	No

#### WNA Tracking 2018-2019

Date	Call Type	Inquiry Details	Follow Up	Representative	Additional Comments	F.A.Q.'s Reference	Resolved
14-Feb	Inquiry	Why this program?	N/A	R.Scott	Asked if they would see the charge every month.	Are there any added benefits to decoupling?	Complete
18-Feb	Inquiry	Why this program?	N/A	T.Grant	Customer did understand why we were charging him	What is Revenue decoupling?	Complete
20-Feb	Inquiry	Hard to Understand	N/A	J.Colon	Didn't understand why we were crediting him	What is Revenue decoupling?	Complete
2-Mar	Inquiry	Why this program?	N/A	A.Reilly	Went over charges	How will this affect my bill?	Complete
3-Mar	Complaint	Escalation in Disagreement	N/A	A.Yusuf	Upset about how much the WNA "cost" for her	What is the main purpose of decoupling?	Complete
5-Mar	Inquiry	When will it start?	N/A	R.Scott	Never noticed it on the bill, questions about program.	What is Revenue decoupling?	Complete
6-Apr	Inquiry	What is this program?	N/A	R.Scott	Wanted to know if the program was optional or not	How does decoupling work?	Complete
22-Apr	Inquiry	What is this program?	N/A	K.Burroughs	Customer wanted to know what the charges were for?	What is the main purpose of decoupling?	Complete

#### WNA Tracking 2018-2019

Date Call Type	Inquiry Details	Follow Up	Representative	Additional Comments	F.A.Q.'s Reference	Resolved
13-Nov Inquiry	Hard to Understand	N/A	M.Grant	Thinks we should just increase the customer charge year round and that might make more sence to the customers	What is the main purpose of decoupling?	Complete
13-Nov Inquiry	What is this program?	N/A	J.Roberts	Wanted to know more about the program, understands and found interesting	What is Revenue decoupling?	Complete
21-Nov Inquiry	Why this program?	N/A	J.Brouillet	Why this program? Why not increase the customer charge year round? No follow up need- preferred the customer charge increase	Are there any added benefits to decoupling?	Complete
30-Nov Inquiry	What is this program?	N/A	J.Brouillet	Questions on how the program works	How does decoupling work?	Complete
5-Dec Inquiry	What is this program?	N/A	K.Burroughs	When reviewing usage for November, during high bill complaint, questioned the credit on account	How will this affect my bill?	Complete
6-Dec Inquiry	Why this program?	N/A	N.Soucy	Concerned that the credits/debits are based on usage and not a flat rate for budgeting purposes	Is my bill still based on how much gas I use?	Complete
6-Dec Inquiry	What is this program?	N/A	A.Cook-Dodge	Customer wanted more information on what the program was about	What is Revenue decoupling?	Complete
6-Dec Complaint	When will it start?	Supervisor Call Back	A.Cook-Dodge	Wanted to know why it was on one bill and not another. See breakdown on tab A10 by Joanne Iovino		Complete
7-Dec Inquiry	What is this program?	N/A	D.Duchaine	Wanted to know when this started and if other companies are participating too	Is decoupling a new concept?	Complete
11-Dec Inquiry	What is this program?	N/A	D.Pisco	Why do I have this charge on the bill? Will I always get it?	How will this affect my bill?	Complete
12-Dec Inquiry	What is this program?	N/A	A.Cook-Dodge	Curious as to why he had a credit on his account	What is Revenue decoupling?	Complete
12-Dec Inquiry	Why this program?	N/A	A.Cook-Dodge	How long will the program last?	How will this affect my bill?	Complete
10-Dec Inquiry	What is this program?	N/A	A.Maggio	Wanted to know more about the program, happy with credit	What is Revenue decoupling?	Complete
18-Dec Inquiry	What is this program?	N/A	K.Ripaldi	Asked why he had a credit on his bill	How will this affect my bill?	Complete
3-Jan Inquiry	Hard to Understand	N/A	A.Maggio	Didn't see the charge on the bill, walked customer through the fact that it was the credit. Refered to website for additional details as well.	What is Revenue decoupling?	Complete
16-Jan Inquiry	What is this program?	N/A	A.Maggio	Wanted to know why there was a credit on his bill that he has never seen before	How will this affect my bill?	Complete
16-Jan Inquiry	What is this program?	N/A	A.Maggio	Wanted to know more about the program and why he had a credit on his account	What is Revenue decoupling?	Complete
12-Feb Inquiry	Why this program?	N/A	A.Cook-Dodge	Wanted to know what the charges on the bill were	What is Revenue decoupling?	Complete
1-Mar Inquiry	What is this program?	N/A	J.Roberts	Wanted to know why he got a credit on his bill	What is Revenue decoupling?	Complete

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