Impact from Synapse NH Cost- Effectiveness Review	Reference	Granite State Test	Total Resource Cost Test	Tota	l Portfolio	Ene	Home ergy stance	A1 - E Star H		Perfor	Home mance Energy tar		inergy roducts	A4 - Hor Energ Repor	,	C1 - Large Business Energy Solutions	C2 - Sm Busine Energ Solutio	ess Y	C6c - C&l Education
Utility System Costs																			
Measure costs (utility portion)	Rebate/Services costs, Costs tab	✓	✓	\$	6,983,596	\$ 1,4	79,298	\$ 4	74,678	\$ 1,1	87,733	\$ 7	52,615	\$ 196,8	74	\$ 1,549,622	\$ 1,331	,792	\$ 10,982
Other financial or technical support costs	Included in Measure costs (utility portion)	√	✓		luded in line 1	\$	-	\$	-	\$	-	\$	-	\$. :	\$ -	\$	-	\$ -
Other program and administrative costs	Internal Admin, External Admin, Implementation, and Marking costs, Costs tab	✓	✓	\$	754,723	\$ 1	35,827	\$ (68,650	\$	73,273	\$	65,543	\$ 16,0	72	\$ 208,938	\$ 176	,965	\$ 9,455
EM&V costs	EM&V costs, Costs tab	✓	✓	\$	179,934	\$	33,889	\$:	17,682	\$	18,864	\$	17,538	\$ 5,3	30	\$ 44,964	\$ 39,	,890	\$ 1,778
Performance incentives ¹	Performance Incentive calculation, 3. Att E1 PI tab	✓	✓	\$	-	\$	-	\$	-	\$	-	\$	-	\$. !	\$ -	\$	-	\$ -
Utility System Benefits																			
Avoided energy costs	Att E1 Ben tab (does not include avoided line losses and wholesale risk premium)	√	✓	\$	206,725	\$ 1	58,993	\$	-	\$ 4	46,404	\$	29,505	\$. :	\$ (30,508)	\$ 2,	,331	\$ -
Avoided generating capacity costs	Att E1 Ben tab (does not include avoided line losses and wholesale risk premium for uncleared capacity)	✓	✓	\$	85,041	\$	62,009	\$	-	\$:	23,254	\$	(222)	\$. !	\$ -	\$	-	\$ -
Avoided reserves	Embedded in avoided generating capacity costs	✓	✓		luded in line 7	\$	-	\$	-	\$	-	\$	-	\$. :	\$ -	\$	-	\$ -
Avoided transmission costs	2. Att E1 Ben tab	✓	✓	\$	86,027	\$	61,071	\$	-	\$	25,193	\$	(237)	\$. !	\$ -	\$	-	\$ -
Avoided distribution costs	2. Att E1 Ben tab	✓	✓	\$	74,525	\$	52,906	\$	-	\$	21,825	\$	(206)	\$. :	\$ -	\$	-	\$ -
Avoided T&D line losses	Calculated based on 8% line loss factor applied to Avoided energy, generating capacity, and DRIPE	✓	✓	\$	24,799	\$	18,725	\$	-	\$	5,970	\$	2,569	\$. :	\$ (2,654)	\$	189	\$ -
Avoided ancillary services	In the short term, value at \$0 - over time, will determine whether this impact is enough to monetize	✓		\$	-	\$	-	\$	-	\$	-	\$	-	\$. !	\$ -	\$	-	\$ -
Intrastate price suppression effects (DRIPE)	Att E1 Ben tab (does not include avoided line losses and wholesale risk premium)	✓	✓	\$	9,039	\$	6,058	\$	-	\$	2,842	\$	1,585	\$. !	\$ (1,388)	\$	(59)	\$ -
Avoided compliance with RPS requirements	Embedded in avoided energy costs	✓	✓		luded in line 6	\$	-	\$	-	\$	-	\$	-	\$. !	\$ -	\$	-	\$ -
Avoided environmental compliance costs (embedded)	Embedded in avoided energy costs	✓	✓		luded in line 6	\$	-	\$	-	\$	-	\$	-	\$. !	\$ -	\$	-	\$ -
Avoided credit and collection costs	Embedded in income eligible (participant non-energy benefits)	✓		1 1	luded in line 23	\$	-	\$	-	\$	-	\$	-	\$. :	\$ -	\$	-	\$ -
Reduced risk	Calculated based on 8% wholesale risk premium applied to avoided energy, DRIPE, and uncleared avoided generating capacity	✓	✓	\$	18,546	\$	14,166	\$	-	\$	4,260	\$	2,584	\$. :	\$ (2,653)	\$	189	\$ -
Increased reliability ²	2. Att E1 Ben tab	√²		\$	-	\$	-	\$	-	\$	-	\$	-	\$. !	\$ -	\$	-	\$ -
Market transformation ³	Net-to-gross rates constitute a negative benefit adjustment that is included in avoided energy and capacity costs	✓	√³	1 1	luded in nes 6-13	\$	-	\$	-	\$	-	\$	-	\$. :	\$ -	\$	-	\$ -
Non-Utility System Impacts																			
Other fuel	2. Att E1 Ben tab	✓	✓	\$ 1	7,264,385	\$ 1,0	01,312	\$ 1,1	31,195	\$ 3,5	08,214	\$ 2,2	27,650	\$ 204,1	81	\$ 6,038,634	\$ 3,153	,198	\$ -
Water resource	2. Att E1 Ben tab	√	✓	\$	705,081	\$	1,954	\$	-	\$	2,908	\$	-	\$. :	\$ -	\$ 700,	,219	\$ -
Income eligible (participant costs)	1. Att E1 Cost Eff tab	√	✓	\$	-	\$	-	\$	-	\$	-	\$	-	\$. :	\$ -	\$	-	\$ -
Income eligible (participant non- energy benefits)	2. Att E1 Ben tab	✓	✓	\$	-	\$	-	\$	-	\$	-	\$	-	\$. :	\$ -	\$	-	\$ -

	Impact from Synapse NH Cost- Effectiveness Review	Reference	Granite State Test	Total Resource Cost Test	Total Portfolio	B1 - Home Energy Assistance	A1 - Energy Star Homes	A2 - Home Performance with Energy Star	A3 - Energy Star Products	A4 - Home Energy Reports	C1 - Large Business Energy Solutions	C2 - Small Business Energy Solutions	C6c - C&I Education
24	Participant costs	1. Att E1 Cost Eff tab		\	\$ 5,884,139	\$ -	\$ 471,445	\$ 304,989	\$ 874,686	\$ -	\$ 2,526,844	\$ 1,706,174	\$ -
25	Participant non-energy benefits	2. Att E1 Ben tab		✓	\$ 2,459,077	\$ -	\$ 169,679	\$ 545,694	\$ 339,485	\$ 30,627	\$ 900,215	\$ 473,377	\$ -
26	Environmental, NH fossil fuel proxy	2. Att E1 Ben tab	√	✓	\$ 2,648,424	\$ 152,645	\$ 192,296	\$ 571,870	\$ 292,600	\$ 15,495	\$ 894,384	\$ 529,134	\$ -
	Granite State Test												
27	Costs	Utility System Costs (lines 1-4); Income eligible (participant costs) (line 22)	√		\$ 7,918,253	\$ 1,649,014	\$ 561,010	\$ 1,279,870	\$ 835,696	\$ 218,276	\$ 1,803,524	\$ 1,548,647	\$ 22,215
28	Benefits	Utility System Benefits (lines 6-19); Non-Utility System Impacts (excluding Participant costs and Participant non-energy benefits) (lines 20-21, 23, 26)	✓		\$ 21,122,592	\$ 1,529,839	\$ 1,323,491	\$ 4,212,739	\$ 2,555,830	\$ 219,676	\$ 6,895,816	\$ 4,385,201	\$ -
29	BC Ratio	Line 28 / Line 27	✓		2.67	0.93	2.36	3.29	3.06	1.01	3.82	2.83	-
	Total Resource Cost Test												
30	Costs	Utility System Costs (lines 1-4); Income eligible (participant costs) (line 22); Participant Costs (line 24)		\	\$ 13,802,391	\$ 1,649,014	\$ 1,032,455	\$ 1,584,859	\$ 1,710,382	\$ 218,276	\$ 4,330,369	\$ 3,254,821	\$ 22,215
31	Benefits	Utility System Benefits (lines 6-11, 13-15, 17, 19 ²); Non-Utility System Impacts (lines 20-21, 23, 25-26)		√	\$ 23,581,669	\$ 1,529,839	\$ 1,493,170	\$ 4,758,433	\$ 2,895,314	\$ 250,303	\$ 7,796,030	\$ 4,858,578	\$ -
32	BC Ratio	Line 31 / Line 30		✓	1.71	0.93	1.45	3.00	1.69	1.15	1.80	1.49	-

^{1.} Program Performance Incentives estimated based on share of total budget

^{2.} Reliability was included in the Synapse recommendation for the Granite State Test components, but is not included per stakeholder concerns

^{3.} The NH Utilities apply free-ridership and spillover to gross savings to account for market transformation, and while these factors were not applied in the pre-2021 total resource cost test, they will be going forward to comply with the NH TRM

Util	ty Discount Rates - 2021						
#	Category			Value			Details
1	Employee Benefit Plans -	Pension, SERP, non-SERP, PBOF	, etc.				
	Pension			2.93%			
							The discount rate was chosen by the plan sponsor using the Ryan ALM Above Median
							Yield Curve, under which the plan's projected benefit payments are matched against a
							series of spot rates derived from a market basket of high quality fixed income securities.
	OPEB			2.94%			TI II
							The discount rate was chosen by the plan sponsor using the Ryan ALM Above Median
							Yield Curve, under which the plan's projected benefit payments are matched against a
<u> </u>							series of spot rates derived from a market basket of high quality fixed income securities.
2	Leases			3.17%			The rate is different for each lease since we use the discount rate associated with the
							specific lease term. The rate shown is for a 3-year lease term. Lease discount rates are
							based on BBB Utility Curve, which is the current credit quality of Liberty Utilities.
							Generally Accepted Accounting Principles (GAAP) on lease account provides the
							following guidance - "the discount rate used should reflect a borrowing cost over a term
							equivalent to the lease term. In many cases, this may take the form of selecting or
							developing a rate curve based upon the credit quality of the entity".
3	AFUDC - Effective annual	rates with semi-annual compou	ınding				· · · · · · · · · · · · · · · · · · ·
	Debt	<u> </u>		2.16%			Docket # DG 20-105, Order #26,505
	Equity			4.92%			Docket # DG 20-105, Order #26,505
4	ROE/WACC						
	WACC EN	Rate of Return Calculation	Portion		Weighted Rate		Docket # DG 20-105, Order #26,505
		Equity	52.0%	9.30%	4.84%	6.649	
		Debt	48.0%	4.42%	2.12%	2.12%	
			100.0%		6.96%	9.369	
	WACC GSE	Rate of Return Calculation	Dti	16 T C	14/-:-bad D-a-	D T 14/4 CC	Docket # DE 19-064, Order #26,376
	WACC GSE		Portion 52.0%	9.10%	Weighted Rate 4.737%	6.499	DOCKET # DE 19-064, Order #26,376
		Equity Debt	48.0%	5.97%	2.87%	2.87%	
		Debt	100.0%	3.5776	7.60%	9.365	
			100.070		7.0070	5.507	
5	Carried interest charge						See response to #6.
	_						·
							The Energy Efficiency real discount rate is calculated in accordance with the
							methodology outlined in the Avoided Energy Supply Components 2021 study (AESC
							2021). The calculation is Real Discount Rate = [(1 + Nominal Discount Rate)/(1 + Inflation
							Rate)] - 1. AESC 2021 uses a Real Discount Rate of 0.81% based on default calculated
							values of 2.82% for the Nominal Discount Rate and 2.00% for the Inflation Rate. AESC
							2021 also provides tools for users to insert their own input assumptions for these rates
							to calculate avoided costs. Following precedent established in previously approved
							filings, the Utilities use Nominal Discount Rates and Inflation Rates that are updated for
							the year in which measures will be installed, and were updated as of June 2021 for
							program years 2022 and 2023. The effect of using these rates resulted in a Real Discount
							Rate of 1.19%, a lower risk rate than the AESC 2021 default of 0.81%.
ĺ							These are very low risk investments that are customer owned and operated and due to
ĺ							the nature of the investments, and confirmed by routine study of baselines and savings,
6	EE Discount Rate		2021	2022	2023		are very reliable in terms of producing the expected reduction.
١							Updated October 18, 2021. Based on the June 2021 Prime Rate in accordance with the
ĺ	Nominal Discount Rate		3.25%	3.25%	3.25%		Final Energy Efficiency Group Report, dated July 6, 1999 in DR 96-150. Retrieved from
1							http://www.moneycafe.com/personal-finance/prime-rate/
1	Inflation		1.81%	2.03%	2.03%		Updated October 18, 2021. Based on the inflation rate from Q1 2020 to Q1 2021,
ĺ	шианоп		1.81%	2.03%	2.03%		Retrieved from https://fred.stlouisfed.org/data/GDPDEF.txt
1	Real Discount Rate		1.41%	1.19%	1.19%		
	הכמו טוטנטעוונ המנפ		1.41%	1.15%	1.1970		Calculated: Real Discount Rate = [(1 + Nominal Discount Rate)/(1 + Inflation Rate)] – 1

Plan & Actual Energy Savings - 2021	an & Actual Energy Savings - 2021															
		Program	Cos	sts (\$)		Rebate / S	erv	ices (\$)	Net Annu (M	ual Energy Wh)	Net Lifetin	٠.	Net Annua	l MMBtu	Net Lifetime MMBtu	
Program / Sector		Actual		Planned		Actual		Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned
A - Residential	\$	2,894,852	\$	3,156,011	\$	2,611,901	\$	2,564,259	112.5	178.2	1,324.7	1,114.3	59,265.4	53,745.1	814,431.7	810,316.7
A1 - Energy Star Homes	\$	561,010	\$	874,689	\$	474,678	\$	710,685	-	-	-	-	5,330.6	12,724.4	132,521.3	318,110.5
A2 - Home Performance with Energy Star	\$	1,279,870	\$	1,029,960	\$	1,187,733	\$	836,842	83.5	159.3	834.1	796.4	17,784.2	13,010.3	407,503.5	234,603.7
A3 - Energy Star Products	\$	835,696	\$	964,367	\$	752,615	\$	783,548	29.0	18.9	490.5	318.0	15,489.8	14,841.3	253,746.2	244,433.4
A4 - Home Energy Reports	\$	218,276	\$	286,995	\$	196,874	\$	233,183	-	-	-	-	20,660.7	13,169.1	20,660.7	13,169.1
B - Low-Income	\$	1,649,014	\$	1,482,845	\$	1,479,298	\$	1,204,812	120.9	-	2,824.2	-	5,895.7	6,381.0	115,358.4	127,362.7
B1 - Home Energy Assistance	\$	1,649,014	\$	1,482,845	\$	1,479,298	\$	1,204,812	120.9	-	2,824.2	-	5,895.7	6,381.0	115,358.4	127,362.7
C - Commercial & Industrial	\$	3,374,386	\$	4,083,759	\$	2,892,397	\$	3,318,054	(37.8)	2.5	(753.3)	45.4	76,181.2	86,059.9	1,193,516.5	1,179,120.4
C1 - Large Business Energy Solutions	\$	1,803,524	\$	2,190,676	\$	1,549,622	\$	1,779,924	(27.6)	-	(552.6)	-	51,816.5	61,934.9	769,234.8	774,804.3
C2 - Small Business Energy Solutions	\$	1,548,647	\$	1,805,139	\$	1,331,792	\$	1,466,675	(10.2)	2.5	(200.7)	45.4	24,364.7	24,124.9	424,281.8	404,316.1
C6c - C&I Education	C6c - C&l Education \$ 22,215 \$ 87,944 \$ 10,982 \$ 71,455		-	-	-	-	-	-	-	-						
Grand Total	\$	7,918,253	\$	8,722,615	\$	6,983,596	\$	7,087,125	195.7	180.7	3,395.6	1,159.7	141,342.2	146,185.9	2,123,306.6	2,116,799.8

				Port	folio Planned	Versus Actua	al Per	formance	- 2021	1					
												Actual			
												Coefficient			
					Design	Actual			1259	% of		w/ 100%	PI	w/ 100%	
Portfolio	Goal	Threshold	Actual	% of Plan	Coefficient	Coefficient	Pla	nned PI	Plann	ned PI	Actual PI	Threshold	Th	reshold	Source
1 Lifetime MMBtu Savings	2,116,800	1,587,600	2,123,276	100%	2.475%	2.483%	\$	215,885	\$ 2	69,856	\$ 196,576	2.483%	\$	196,576	Program Cost Effectiveness (Page 1 of 3)
2 Annual MMBtu Savings	146,186	109,640	141,311	97%	1.100%	1.063%	\$	95,949	\$ 1.	19,936	\$ 84,196	0.000%	\$	-	Program Cost Effectiveness (Page 1 of 3)
3 Total Resource Benefits	\$ 17,964,374		18,474,168	103%											Present Value Benefits (Page 2 of 3)
4 Total Utility Costs ¹	\$ 8,722,615		7,918,253	91%											Program Cost Effectiveness (Page 1 of 3)
5 Net Benefits	\$ 9,241,759	\$ 6,931,319	\$ 10,555,915	114%	1.925%	2.199%	\$	167,910	\$ 2	09,888	\$ 174,101	2.199%	\$	174,101	Line 5 minus line 6
6 Total					5.500%	5.745%	\$	479,744	\$ 5	99,680	\$ 454,874	4.681%	\$	370,677	Sum of Rows 1, 2 & 5

	Granite S	tate	Test	
	Goal		Actual	Source
Total Benefits	\$ 21,846,243	\$	21,122,592	Present Value Benefits (Page 2 of 3)
Performance Incentive	\$ 479,744	\$	454,874	Row 6
Total Utility Costs	\$ 8,722,615	\$	7,918,253	Row 4
Portfolio GST BCR	2.37		2.52	Row 7 Divided by Rows 8+9

Costs, Benefits, and PI Expressed in 2021 Dollars.

¹ Note that in order to avoid a circular reference in the calculation of performance incentive, "Total Utility Costs" does not include the value of PI.

Contracto	Contractor/Consultant Expenses by State & Country - 2021												
Country	State / Province		Total Expenses		Customer Rebate Portion								
US	AZ	\$	1,484	\$	-								
US	CA	\$	442,280	\$	91,946								
US	CO	\$	29,360	\$	1								
US	СТ	\$	14,403	\$	1								
US	IL	\$	10,440	\$	1								
US	MA	\$	1,442,371	\$	1,324,195								
US	NH	\$	3,311,789	\$	2,769,199								
US	NJ	\$	644	\$	-								
US	NY	\$	38,819	\$	-								
US	ОН	\$	38,490	\$	-								
US	RI	\$	393,714	\$	118,486								
US	TX	\$	129,245	\$	1								
US	VA	\$	16,863	\$	1								
CA	Ontario	\$	2,591	\$									
Total		\$	5,872,492	\$	4,303,825								

Notes:

Liberty (Electric) has provided the information as requested but notes that the data provided in and of itself does not accurately reflect the full impact of the programs at large. Some caveats include:

- -The business address of a given contractor or vendor is not necessarily reflective of the location of the individual(s) who work with the NHSaves brand. For example, there are vendors with corporate addresses located outside of New Hampshire which have employees the Utilities contract and work with within New Hampshire.
- -There are contractors who the Utilities work with who hire subcontractors from other entities to obtain materials and supplies or install and fulfill projects for customers.
- -Contractor and vendor payments are not reflective of the full economic impact of the projects performed.
- -Additional Federal dollars were invested into the income-eligible projects completed.

Contractor/Consultants by State & Country - 2021					
Vendor	Street	City	State	Zip Code	Country
AMERICAN PLANT MAINTENANCE, LLC	10-B Commerce Way	Woburn	MA	01801	US
ANB SYSTEMS INC	4771 Sweetwater Blvd., Ste. 151	Sugarland	TX	77479	US
APEX ANALYTICS LLC	1717 Blubell Avenue	Boulder	CO	80302	US
ASSOCIATION OF ENERGY SERVICES PROFESSIONALS	15215 S. 48th Street, Ste. 170	Phoenix	AZ	85044	US
AW ROSE CONSTRUCTION LLC	1662 Elm Street, Suite 100	Manchester	NH	03101	US
BELKNAP MERRIMAC CAP AGENCY	2 Industrial Park Drive	Concord	NH	03301	US
BENCHMARK GRAPHICS	175 E Bare Hill Road	Harvard	MA	01451	US
BEOTE CONSTRUCTION LLC	134 Turkey Hill Road	Merrimack	NH	03054	US
CLEARESULT CONSULTING INC.	50 Washington Street	Westborough	MA	01581	US
COHEN VENTURES INC. DBA ENERGY SOLUTIONS	449 15th St #400	Oakland	CA	94612	US
COMCAST CABLE COM MGMT LLC DBA EFFECTV	PO Box 415949	Boston	MA	02241	US
COMMUNITY DEVELOPMENT FINANCE AUTHORITY	14 Dixon Avenue, Ste. 102	Concord	NH	03301	US
DMI - DEMAND MANAGEMENT INSTITUTE	300 Chestnut Street, Suite 150	Needham	MA	02492	US
DODGE DATA AND ANALYTICS LLC	300 American Metro Blvd #185	Hamilton	NJ	08619	
E SOURCE COMPANIES LLC	1745 38th Street	Boulder	СО	80301	
EISENBERG, VITAL, & RYZE LLC	155 Dow Street, Suite 300	Manchester	NH	03031	
ENERGY CODE ADVISORS, LLC	24 Joppa Hill Road	Bedford	NH	03110	
ENERGY FEDERATION INC	40 Washington Street, Ste 2000	Westborough	MA	01752	
ENERGYX SOLUTIONS INC	212 King St. W, Ste. 600	Toronto	Ontario	60021	
EVERSOURCE	780 N Commercial Street	Manchester	NH	03101	
GDS ASSOCIATES	1155 Elm Street, Suite 702	Manchester	NH	03101	
HORIZON-RESIDENTIAL ENERGY SERVICES NH, LLC	75 South Main Street	Concord	NH	03301	
ICF RESOURCES LLC	9300 Lee Hwy Service Rd	Fairfax	VA	22031	
JESSICA L. FORREST	18 Kensington Road	Concord	NH	03301	
KEMA INC.	5202 Payshere Circle	Chicago	IL	60674	
LAKES REGION COMMUNITY COLLEGE	379 Belmont Road	Laconia	NH	03246	
MANCHESTER RADIO GROUP WZID			NH	03246	
	500 Commercial Street	Manchester	NH		
NEW HAMPSHIRE BUSINESSES FOR SOCIAL RESPONSIBILITY (NHBSR)	24 Crown Hill Road	Atkinson		03811	
NEW HAMPSHIRE MANUFACTURING EXTENSION PARTNERSHIP (NHMEP)	172 Pembroke Road	Concord	NH	03301	
NEW HAMPSHIRE PUBLIC RADIO	PO Box 9645 - Dept UW	Manchester	NH	03108	
NEW HAMPSHIRE SUSTAINABLE ENERGY ASSOCIATION DBA CLEAN ENERGY NH	14 Dixon Avenue, Ste 202	Concord	NH	03301	
NEWELL AND CRATHERN LLC	34 Staniels Road	Loudon	NH	03307	
NH CHAPTER OF THE AMERICAN INSTITUTE OF ARCHITECTS (AIANH)	310 Marlboro Street, #2	Keene	NH	03431	
NH DEPARTMENT OF ENERGY	21 South Fruit Street, Ste. 10	Concord	NH	03301	
NH SCHOOL ADMINISTRATORS ASSOCIATION	46 Donovan St, Bow Brook Pl Ste 3	Concord	NH	03301	
NMR GROUP INC	50-2 Howard Street	Somerville	MA	02144	
ORACLE AMERICA INC.	500 Oracle Pkwy	Redwood	CA	94065	
PERFORMANCE SYSTEMS DEVELOPMENT	124 Brindley Street	Ithaca	NY	14850	
PLYMOUTH AREA RENEWABLE ENERGY INITIATIVE	79 Highland Street	Plymouth	NH	03264	
PRISM ENERGY SERVICES	1150 Hancock St #400	Quincy	MA	02169	
QUESTLINE, INC.	2025 Riverside Drive	Columbus	OH	43221	
RESILIENT BUILDINGS GROUP, INC.	46 S Main Street, Suite 7	Concord	NH	03301	
RISE ENGINEERING	1341 Elmwood Avenue	Cranston	RI	02910	
RIVER ENERGY ASSOCIATES	271 Albany Street	Fall River	MA	02720	
ROB WERNER	82 Hooksett Turnpike	Concord	NH	03301	
SOUTHERN NEW HAMPSHIRE SERVICE INC	40 Pine Street	Manchester	NH	03103	
SPECTRUM MARKETING COMPANIES	95 Eddy Road, Ste. 101	Manchester	NH	03102	
SYNAPSE ENERGY ECONOMICS, INC	485 Massachusetts Avenue	Cambridge	MA	02139	US
TRC ENVIRONMENTAL CORPORATION	21 Griffin Road North	Windsor	СТ	06095	US
TURN CYCLE SOLUTIONS	36 E Otterson Street	Nashua	NH	03061	US

Projects by Municipa	lity - 2021			
0:: 1=	Number of Ratepayers	Number of	6 L(A)	Spend (\$) per
City / Town	per City / Town	Participants ¹	Spend (\$)	Ratepayer
ALLENSTOWN	401	114	\$7,643	\$19.06
AMHERST	654	174	\$8,809	\$13.47
AUBURN	37	1	\$8	\$0.22
BEDFORD	2,239	422	\$53,518	\$23.90
BELMONT	90	8	\$1,228	\$13.65
BERLIN	15	0	\$0	\$0.00
BOSCAWEN	339	80	\$1,520	\$4.48
BOW	836	326	\$40,795	\$48.80
CANTERBURY	40	11	\$88	\$2.21
CONCORD	11,592	3730	\$698,584	\$60.26
DERRY	631	109	\$132,471	\$209.94
FRANKLIN	1,128	311	\$75,624	\$67.04
GILFORD	122	2	\$8	\$0.07
GOFFSTOWN	759	639	\$23,276	\$30.67
HOLLIS	30	16	\$313	\$10.42
HOOKSETT	2,647	812	\$69,687	\$26.33
HUDSON	5,584	2141	\$161,457	\$28.91
KEENE	1,220	26	\$118,940	\$97.49
LACONIA	2,368	666	\$114,249	\$48.25
LITCHFIELD	214	61	\$22,879	\$106.91
LONDONDERRY	2,051	491	\$237,578	\$115.84
LOUDON	190	56	\$1,952	\$10.27
MANCHESTER	28,321	7183	\$1,357,085	\$47.92
MERRIMACK	4,523	1942	\$1,020,351	\$225.59
MILFORD	1,249	399	\$87,734	\$70.24
N/A ²	-	3	\$300	\$0.00
NASHUA	29,122	11378	\$1,184,291	\$40.67
NORTHFIELD	270	68	\$7,454	\$27.61
PELHAM	50	2	\$200	\$4.00
PEMBROKE	1,122	257	\$101,911	\$90.83
SANBORNTON	50	4	\$32	\$0.64
TILTON	790	158	\$26,897	\$34.05
WINNESQUAM	9	2	\$16	\$1.79
Grand Total	98,693	31,592	\$5,556,900	\$56.30

¹Participant counts include Home Energy Report recipients

² Participant count reflects non-identifiable thermostats

Liberty (Gas) NHPUC Docket No. IR 22-042 2021 Program Year Compliance Filing Order No. 26,621, Report 4.1

Projects by Subsidy Level - 2021												
Subsidy (%)	Number of Projects ¹	Tot	tal Project Cost	•	Total Incentive							
100%	25,682	\$	1,891,629	\$	1,891,629							
80% - 99%	742	\$	524,338	\$	456,920							
60% - 79%	993	\$	1,792,794	\$	1,288,371							
40% - 59%	1,023	\$	2,220,157	\$	1,079,097							
20% - 39%	1,959	\$	1,567,110	\$	480,552							
1% - 19%	1,196	\$	3,593,968	\$	351,457							
Total	31,595	\$	11,589,996	\$	5,548,025							

¹Number of projects include Home Energy Report recipients

NPV of EE Measures/Services Provide	d at No Cost				
Program	Subsidy %	Total Participants	Total Project Cost	Total Incentive	Analysis for 100% Incentive
2021 Home Energy Assistance - Gas	100%	271	\$1,389,893	\$1,389,893	HEA projects are done at no cost to the customer.
					The projects at 100% subsidy are 'baseload' or Visual Audit projects where non-
2021 Home Performance with Energy					weatherization measure such as LED light bulbs, Wi-Fi thermostats, faucet aerators,
Star - Gas	100%	186	\$125,118	\$125,118	and low-flow showerheads are directly installed at no cost to the customer.
2021 Home Energy Reports - Gas	100%	24,483	\$196,874	\$196,874	Customers receive personalized, energy analysis reports at no cost
					The projects at 100% subsidy are Steam Trap repairs and Pipe Insulation installed at
2021 Large Commercial - Gas	100%	327	\$36,480	\$36,480	no cost to the customer as part of a promotion.
					The projects at 100% subsidy include Direct Installed (DI) measures such as low flow
					faucet aerators and showerheads, programmable thermostats, and kitchen spray
					valves. In a few cases, commercially metered low income multi-family buildings
2021 Small Commercial - Gas	100%	415	\$143,264	\$143,264	were provided with replacement on failure heating systems.
Grand Total		25,682	\$1,891,629	\$1,891,629	

Program B	udget and	Expenses by Ca	ategory									
Plan or Actual	Year	Utility	Sector	Program	Evaluation	Internal Administration	Internal Implementation	Marketing	Rebates- Services	External Administration	Performance Incentive	Total
Actual	2016	Liberty - Gas	B - Low-Income	B1 - Home Energy Assistance	\$21,273	\$0	\$8,143	\$59,268	\$0	\$914,958	\$0	\$1,003,642
Actual	2016 2016	Liberty - Gas	A - Residential A - Residential	A1 - Energy Star Homes	\$21,747	\$0 \$0	\$1,269 \$12,020	\$6,449 \$54,356	\$2,209 \$9,950	\$67,564	\$0 \$0	\$99,240
Actual Actual	2016	Liberty - Gas Liberty - Gas	A - Residential	A2 - Home Performance with Energy Star A3 - Energy Star Products	\$20,371 \$23,055	\$0	\$7,109	\$79,279	\$15,349	\$382,122 \$846,206	\$0	\$478,819 \$970,998
Actual	2016	Liberty - Gas	A - Residential	A4 - Residential Behavior	\$9,300	\$0	\$2,736	\$23,173	\$4,952	\$204,888	\$0	\$245,049
Actual Actual	2016 2016	Liberty - Gas Liberty - Gas	C - Commercial & Industrial C - Commercial & Industrial	C1 - Large Business Energy Solutions C2 - Small Business Energy Solutions	\$38,587 \$27,739	\$0 \$0	\$10,237 \$8,428	\$88,962 \$87,899	\$12,283 \$16,730	\$1,211,994 \$655,192	\$0 \$0	\$1,362,063 \$795,989
Actual	2016	Liberty - Gas	C - Commercial & Industrial	C6c - C&I Education	\$0	\$0	\$0	\$0	\$6,000	\$18,070	\$0	\$24,070
Actual Actual	2016 2016	Liberty - Gas	A - Residential C - Commercial & Industrial	Performance Incentive Performance Incentive	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$246,714 \$190,591	\$246,714 \$190,591
Actual	2016	Liberty - Gas Liberty - Gas	Total Portfolio	renormance incentive	\$162,073	\$0	\$49,942	\$399,387	\$67,473	\$4,300,995	\$437,305	\$5,417,176
Plan Plan	2016 2016	Liberty - Gas Liberty - Gas	B - Low-Income A - Residential	B1 - Home Energy Assistance A1 - Energy Star Homes	\$53,700 \$5,100	\$0 \$0	\$17,900 \$1,700	\$80,550 \$7,650	\$0 \$5,100	\$742,850 \$65,450	\$0 \$0	\$895,000 \$85,000
Plan	2016	Liberty - Gas	A - Residential	A2 - Home Performance with Energy Star	\$38,749	\$0	\$12,916	\$58,123	\$38,749	\$497,278	\$0	\$645,815
Plan	2016	Liberty - Gas	A - Residential	A3 - Energy Star Products	\$59,700	\$0	\$19,900	\$89,550	\$59,700	\$766,150	\$0	\$995,000
Plan Plan	2016 2016	Liberty - Gas Liberty - Gas	A - Residential C - Commercial & Industrial	A4 - Residential Behavior C1 - Large Business Energy Solutions	\$17,880 \$89,280	\$0 \$0	\$5,960 \$29,760	\$26,820 \$133,920	\$17,880 \$89,280	\$229,460 \$1,145,760	\$0 \$0	\$298,000 \$1,488,000
Plan	2016	Liberty - Gas	C - Commercial & Industrial	C2 - Small Business Energy Solutions	\$71,400	\$0	\$23,800	\$107,100	\$71,400	\$916,300	\$0	\$1,190,000
Plan Plan	2016 2016	Liberty - Gas Liberty - Gas	C - Commercial & Industrial A - Residential	C6c - C&I Education Performance Incentive	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$6,000 \$0	\$19,000 \$0	\$0 \$233,505	\$25,000 \$233,505
Plan	2016	Liberty - Gas	C - Commercial & Industrial	Performance Incentive	\$0	\$0	\$0	\$0	\$0	\$0	\$216,240	\$216,240
Plan	2016	Liberty - Gas	Total Portfolio		\$335,809	\$0	\$111,936	\$503,713	\$288,109	\$4,382,248	\$449,745	\$6,071,560
Actual	2017	Liberty - Gas	B - Low-Income	B1 - Home Energy Assistance	\$32,793.24	\$1,833.02	\$12,990.05	\$77,907.28	\$27,789.03	\$673,058.61	\$0	\$826,371
Actual	2017	Liberty - Gas	A - Residential	A1 - Energy Star Homes	\$14,516.61	\$247.88	\$3,720.56	\$10,372.82	\$3,934.56	\$78,232.94	\$0	\$111,025
Actual	2017	Liberty - Gas	A - Residential A - Residential	A2 - Home Performance with Energy Star A3 - Energy Star Products	\$24,461.16	\$1,329.06	\$7,275.30	\$49,310.79 \$70,177.32	\$24,829.86 \$22,525.78	\$246,861.03	\$0 \$0	\$354,067 \$989,619
Actual Actual	2017 2017	Liberty - Gas Liberty - Gas	A - Residential	A4 - Residential Behavior	\$28,008.02 \$8,811.79	\$1,485.85 \$413.74	\$10,845.55 \$5,719.51	\$20,855.98	\$6,272.36	\$856,576.76 \$182,276.22	\$0 \$0	\$224,350
Actual	2017	Liberty - Gas	C - Commercial & Industrial	C1 - Large Business Energy Solutions	\$52,467.73	\$2,848.96	\$18,930.39	\$126,941.34	\$36,700.06	\$880,781.49	\$0	\$1,118,670
Actual Actual	2017	Liberty - Gas Liberty - Gas	C - Commercial & Industrial C - Commercial & Industrial	C2 - Small Business Energy Solutions C6c - C&I Education	\$46,528.29 \$0	\$2,502.48 \$0	\$18,422.28 \$492.50	\$111,888.78 \$0	\$42,625.12 \$0	\$630,593.35 \$24,632.67	\$0 \$0	\$852,560 \$25,125
Actual	2017	Liberty - Gas	A - Residential	Performance Incentive	\$0	\$0	\$0	\$0	\$0	\$0	\$126,052	\$126,052
Actual	2017	Liberty - Gas	C - Commercial & Industrial	Performance Incentive	\$0 \$207,587	\$0 \$10,661	\$0 \$78,396	\$0 \$467,454	\$0	\$0	\$111,093 \$237,145	\$111,093
Actual	2017	Liberty - Gas	Total Portfolio		\$207,587	\$10,661	\$78,396	\$467,454	\$164,677	\$3,573,013	\$237,145	\$4,738,933
Plan	2017	Liberty - Gas	B - Low-Income	B1 - Home Energy Assistance	\$50,600	\$0	\$22,100	\$60,000	\$53,000	\$820,000	\$0	\$1,005,700
Plan Plan	2017	Liberty - Gas Liberty - Gas	A - Residential A - Residential	A1 - Energy Star Homes A2 - Home Performance with Energy Star	\$14,000 \$37,000	\$0 \$0	\$5,000 \$11,200	\$33,000 \$45,000	\$16,000 \$36,000	\$68,000 \$600,000	\$0 \$0	\$136,000 \$729,200
Plan	2017	Liberty - Gas	A - Residential	A3 - Energy Star Products	\$40,000	\$0 \$0	\$15,500	\$35,000	\$46,500	\$678,220	\$0	\$815,220
Plan	2017	Liberty - Gas	A - Residential	A4 - Residential Behavior	\$11,000	\$0	\$4,000	\$8,000	\$10,000	\$194,000	\$0	\$227,000
Plan Plan	2017	Liberty - Gas Liberty - Gas	C - Commercial & Industrial C - Commercial & Industrial	C1 - Large Business Energy Solutions C2 - Small Business Energy Solutions	\$78,100 \$68,500	\$0 \$0	\$29,500 \$27,500	\$74,500 \$72,000	\$48,500 \$55,000	\$1,332,500 \$1,150,000	\$0 \$0	\$1,563,100 \$1,373,000
Plan	2017	Liberty - Gas	C - Commercial & Industrial	C6c - C&I Education	\$0	\$0	\$2,000	\$6,500	\$14,000	\$42,000	\$0	\$64,500
Plan Plan	2017	Liberty - Gas Liberty - Gas	A - Residential C - Commercial & Industrial	Performance Incentive Performance Incentive	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$160,222 \$165,033	\$160,222 \$165,033
Actual	2017	Liberty - Gas	Total Portfolio	renormance incentive	\$299,200	\$0 \$0		\$334,000	\$279,000	\$4,884,720		\$6,238,975
Actual Actual	2018	Liberty - Gas Liberty - Gas	B - Low-Income A - Residential	B1 - Home Energy Assistance A1 - Energy Star Homes	\$39,804 \$6,772	\$553 \$94	\$27,357 \$7,799	\$52,834 \$13,669	\$24,892 \$3,832	\$838,637 \$202,150	\$0 \$0	\$984,077 \$234,317
Actual	2018	Liberty - Gas	A - Residential	A2 - Home Performance with Energy Star	\$25,085	\$348	\$17,150	\$50,509	\$37,895	\$557,225	\$0	\$688,212
Actual	2018	Liberty - Gas	A - Residential	A3 - Energy Star Products	\$48,542	\$496	\$25,104	\$36,591	\$21,750	\$1,097,595	\$0	\$1,230,077
Actual Actual	2018 2018	Liberty - Gas Liberty - Gas	A - Residential C - Commercial & Industrial	A4 - Residential Behavior C1 - Large Business Energy Solutions	\$10,495 \$65,173	\$135 \$900	\$4,304 \$19,877	\$14,604 \$134,801	\$5,376 \$51,975	\$230,000 \$980,932	\$0 \$0	\$264,914 \$1,253,657
Actual	2018	Liberty - Gas	C - Commercial & Industrial	C2 - Small Business Energy Solutions	\$50,039	\$691	\$22,172	\$105,441	\$52,982	\$995,227	\$0	\$1,226,552
Actual Actual	2018 2018	Liberty - Gas Liberty - Gas	C - Commercial & Industrial A - Residential	C6c - C&I Education Performance Incentive	\$550 \$0	\$35 \$0	\$86 \$0	\$16 \$0	\$799 \$0	\$18,728 \$0	\$0 \$233,860	\$20,213 \$233,860
Actual	2018	Liberty - Gas	C - Commercial & Industrial	Performance Incentive	\$0	\$0	\$0	\$0	\$0	\$0	\$154,118	\$154,118
Actual	2018	Liberty - Gas	Total Portfolio		\$246,460	\$3,253	\$123,848	\$408,466	\$199,500	\$4,920,494	\$387,978	\$6,289,998
Plan	2018	Liberty - Gas	B - Low-Income	B1 - Home Energy Assistance	\$60,865	\$2,800	\$33,719	\$79,125	\$54,779	\$986,013	\$0	\$1,217,300
Plan	2018	Liberty - Gas	A - Residential	A1 - Energy Star Homes	\$10,355	\$476	\$5,737	\$13,462	\$9,320	\$167,751	\$0	\$207,100
Plan Plan	2018 2018	Liberty - Gas Liberty - Gas	A - Residential A - Residential	A2 - Home Performance with Energy Star A3 - Energy Star Products	\$38,358 \$54,584	\$1,688 \$2,511	\$21,327 \$30,239	\$49,865 \$70,959	\$38,358 \$49,125	\$617,564 \$884,256	\$0 \$0	\$767,160 \$1,091,674
Plan			A - Residential	A4 - Residential Behavior	\$14,830	\$653	\$8,245	\$19,279	\$14,830	\$238,763	\$0	\$296,600
Plan	2018	Liberty - Gas	C - Commercial & Industrial	C1 - Large Business Energy Solutions	\$99,071	\$4,360	\$55,083	\$128,792	\$99,071	\$1,595,041	\$0	\$1,981,418
Plan Plan	2018 2018	Liberty - Gas Liberty - Gas	C - Commercial & Industrial C - Commercial & Industrial	C2 - Small Business Energy Solutions C6c - C&I Education	\$76,066 \$3,900	\$3,347 \$172	\$42,292 \$2,168	\$98,886 \$5,070	\$76,066 \$3,900	\$1,224,665 \$62,790	\$0 \$0	\$1,521,323 \$78,000
Plan	2018	Liberty - Gas	A - Residential	Performance Incentive	\$0	\$0	\$0	\$0	\$0	\$0	\$196,891	\$196,891
Plan Actual	2018 2018	Liberty - Gas Liberty - Gas	C - Commercial & Industrial Total Portfolio	Performance Incentive	\$0 \$358,029	\$0 \$16,006	\$0 \$198,811	\$0 \$465,437	\$0 \$345,448	\$5,776,843	\$196,941 \$393,832	\$196,941 \$7,554,407
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Actual	2019	Liberty - Gas	B - Low-Income	B1 - Home Energy Assistance	\$57,347	\$76	\$48,868	\$51,744	\$43,268	\$1,481,848	\$0 \$0	\$1,683,152
Actual Actual	2019 2019	Liberty - Gas Liberty - Gas	A - Residential A - Residential	A1 - Energy Star Homes A2 - Home Performance with Energy Star	\$19,114 \$46,986	\$59 \$146	\$10,008 \$7,071	\$14,141 \$24,448	\$14,080 \$39,147	\$373,291 \$770,798	\$0 \$0	\$430,693 \$888,595
Actual	2019	Liberty - Gas	A - Residential	A3 - Energy Star Products	\$41,962	\$130	\$37,898	\$31,231	\$39,333	\$771,368	\$0	\$921,922
Actual Actual	2019 2019	Liberty - Gas Liberty - Gas	A - Residential C - Commercial & Industrial	A4 - Residential Behavior C1 - Large Business Energy Solutions	\$7,559 \$102,659	\$16 \$324	\$13,190 \$31,315	\$9,376 \$164,829	\$3,913 \$76,876	\$235,701 \$1,432,916	\$0 \$0	\$269,755 \$1,808,918
Actual	2019	Liberty - Gas Liberty - Gas	C - Commercial & Industrial	C2 - Small Business Energy Solutions	\$102,659	\$324 \$192	\$31,315 \$17,317	\$164,829	\$76,876	\$1,432,916	\$0 \$0	\$1,808,918
Actual	2019	Liberty - Gas	C - Commercial & Industrial	C6c - C&I Education	\$4,038	\$12	\$2,714	\$4,437	\$1,276	\$26,323	\$0	\$38,799
Actual Actual	2019 2019	Liberty - Gas Liberty - Gas	A - Residential C - Commercial & Industrial	Performance Incentive Performance Incentive	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$262,937 \$160,485	\$262,937 \$160,485
Actual	2019	Liberty - Gas	Total Portfolio		\$340,446	\$954	\$168,383	\$388,455	\$271,964	\$6,261,491	\$423,421	\$7,855,115
	2040				455.547	40.575	405 505	405.470	450.055	44 054 077	40	44 242 242
Plan Plan	2019 2019	Liberty - Gas Liberty - Gas	B - Low-Income A - Residential	B1 - Home Energy Assistance A1 - Energy Star Homes	\$65,517 \$21,068	\$2,676 \$860	\$36,635 \$11,780	\$85,172 \$27,388	\$58,965 \$18,961	\$1,061,377 \$341,294	\$0 \$0	\$1,310,342 \$421,351
Plan	2019	Liberty - Gas	A - Residential	A2 - Home Performance with Energy Star	\$51,788	\$2,115	\$28,958	\$67,324	\$51,788	\$833,780	\$0	\$1,035,751
Plan Plan	2019 2019	Liberty - Gas Liberty - Gas	A - Residential A - Residential	A3 - Energy Star Products A4 - Residential Behavior	\$46,250 \$13,538	\$1,889 \$542	\$25,861 \$7,581	\$60,125 \$10,831	\$41,625 \$2,708	\$749,251 \$235,565	\$0 \$0	\$925,001 \$270,764
Plan	2019	Liberty - Gas	C - Commercial & Industrial	C1 - Large Business Energy Solutions	\$115,015	\$4,697	\$64,312	\$149,520	\$115,015	\$1,851,744	\$0	\$2,300,303
Plan	2019	Liberty - Gas	C - Commercial & Industrial	C2 - Small Business Energy Solutions	\$68,099	\$2,781	\$38,078	\$88,529	\$68,099	\$1,096,395	\$0 \$0	\$1,361,981
Plan Plan	2019 2019	Liberty - Gas Liberty - Gas	C - Commercial & Industrial A - Residential	C6c - C&I Education Performance Incentive	\$4,120 \$0	\$168 \$0	\$2,304 \$0	\$5,356 \$0	\$4,120 \$0	\$66,332 \$0	\$0 \$217,977	\$82,400 \$217,977
Plan	2019	Liberty - Gas	C - Commercial & Industrial	Performance Incentive	\$0	\$0	\$0	\$0	\$0	\$0	\$205,958	\$205,958
Actual	2019	Liberty - Gas	Total Portfolio		\$385,395	\$15,728	\$215,509	\$494,244	\$361,281	\$6,235,737	\$423,934	\$8,131,828
Actual	2020	Liberty - Gas	B - Low-Income	B1 - Home Energy Assistance	\$59,551	\$6,060	\$7,635	\$85,331	\$52,060	\$1,465,382	\$0	\$1,676,017
Actual	2020	Liberty - Gas	A - Residential	A1 - Energy Star Homes	\$31,071	\$3,162	\$8,820	\$46,118	\$28,476	\$566,967	\$0	\$684,613
Actual Actual	2020 2020	Liberty - Gas Liberty - Gas	A - Residential A - Residential	A2 - Home Performance with Energy Star A3 - Energy Star Products	\$33,150 \$30,819	\$3,373 \$3,136	\$3,513 \$10,284	\$42,522 \$44,300	\$29,437 \$29,609	\$1,086,344 \$813,998	\$0 \$0	\$1,198,339 \$932,145
Actual	2020	Liberty - Gas	A - Residential	A4 - Residential Behavior	\$10,195	\$948	\$2,225	\$13,662	\$29,609	\$262,501	\$0 \$0	\$289,531

Plan or Actual	Year	Utility	Sector	Program	Evaluation	Internal Administration	Internal Implementation	Marketing	Rebates- Services	External Administration	Performance Incentive	Total
Actual	2020	Liberty - Gas	C - Commercial & Industrial	C1 - Large Business Energy Solutions	\$72,647	\$7.919	\$8.001	\$130.106	\$74.907	\$1.326.076	\$0	\$1,619,656
Actual	2020	Liberty - Gas	C - Commercial & Industrial	C2 - Small Business Energy Solutions	\$56,281	\$5,113	\$8,818	\$111,690	\$62,019	\$1,844,251	\$0	\$2,088,171
Actual	2020	Liberty - Gas	C - Commercial & Industrial	C6c - C&I Education	\$3,216	\$318	\$1,604	\$6,959	\$2,647	\$11,299	\$0	\$26,042
Actual	2020	Liberty - Gas	D - Portfolio	Performance Incentive - Portfolio	\$0	\$0	\$0	\$0,555	\$0	\$0	\$440,944	\$440,944
Actual	2020	Liberty - Gas	Total Portfolio		\$296,929	\$30.029	\$50.898	\$480.688	\$279.154	\$7,376,817	\$440,944	\$8,955,459
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Plan	2020	Liberty - Gas	B - Low-Income	B1 - Home Energy Assistance	\$83,822	\$3,353	\$50,293	\$117.351	\$83.822	\$1,337,800	\$0	\$1,676,441
Plan	2020	Liberty - Gas	A - Residential	A1 - Energy Star Homes	\$43,734	\$1,749	\$23,004	\$43,734	\$26,241	\$736,226	\$0	\$874,689
Plan	2020	Liberty - Gas	A - Residential	A2 - Home Performance with Energy Star	\$46,658	\$1,866	\$25,475	\$46,658	\$46,658	\$765,846	\$0	\$933,162
Plan	2020	Liberty - Gas	A - Residential	A3 - Energy Star Products	\$43,378	\$1,735	\$24,379	\$43,378	\$26,027	\$728,671	\$0	\$867,569
Plan	2020	Liberty - Gas	A - Residential	A4 - Residential Behavior	\$14,350	\$0	\$4,305	\$5,740	\$0	\$262,600	\$0	\$286,995
Plan	2020	Liberty - Gas	C - Commercial & Industrial	C1 - Large Business Energy Solutions	\$109,534	\$4,381	\$54,767	\$109,534	\$65,720	\$1,846,740	\$0	\$2,190,676
Plan	2020	Liberty - Gas	C - Commercial & Industrial	C2 - Small Business Energy Solutions	\$90,257	\$3,610	\$45,128	\$90,257	\$54,154	\$1,521,732	\$0	\$1,805,139
Plan	2020	Liberty - Gas	C - Commercial & Industrial	C6c - C&I Education	\$4,397	\$176	\$2,638	\$6,156	\$2,638	\$71,938	\$0	\$87,944
Plan	2020	Liberty - Gas	D - Portfolio	Performance Incentive - Portfolio	\$0	\$0	\$0	\$0	\$0	\$0	\$479,744	\$479,744
Plan	2020	Liberty - Gas	Total Portfolio		\$436,131	\$16,871	\$229,990	\$462,809	\$305,261	\$7,271,553	\$479,744	\$9,202,359
Actual	2021	Liberty - Gas	B - Low-Income	B1 - Home Energy Assistance	\$33,889	\$845	\$12,247	\$98,872	\$23,862	\$1,479,298	\$0	\$1,649,014
Actual	2021	Liberty - Gas	A - Residential	A1 - Energy Star Homes	\$17,682	\$441	\$12,271	\$43,421	\$12,517	\$474,678	\$0	\$561,010
Actual	2021	Liberty - Gas	A - Residential	A2 - Home Performance with Energy Star	\$18,864	\$471	\$7,357	\$46,143	\$19,302	\$1,187,733	\$0	\$1,279,870
Actual	2021	Liberty - Gas	A - Residential	A3 - Energy Star Products	\$17,538	\$438	\$11,525	\$41,166	\$12,415	\$752,615	\$0	\$835,696
Actual	2021	Liberty - Gas	A - Residential	A4 - Residential Behavior	\$5,330	\$103	\$1,990	\$13,979	\$0	\$196,874	\$0	\$218,276
Actual	2021	Liberty - Gas	C - Commercial & Industrial	C1 - Large Business Energy Solutions	\$44,964	\$1,105	\$14,139	\$130,607	\$63,087	\$1,549,622	\$0	\$1,803,524
Actual	2021	Liberty - Gas	C - Commercial & Industrial	C2 - Small Business Energy Solutions	\$39,890	\$732	\$27,209	\$92,025	\$56,998	\$1,331,792	\$0	\$1,548,647
Actual	2021	Liberty - Gas	C - Commercial & Industrial	C6c - C&I Education	\$1,778	\$44	\$2,531	\$4,497	\$2,384	\$10,982	\$0	\$22,215
Actual	2021	Liberty - Gas	D - Portfolio	Performance Incentive - Portfolio	\$0	\$0	\$0	\$0	\$0	\$0	\$454,900	\$454,900
Actual	2021	Liberty - Gas	Total Portfolio		\$179,934	\$4,179	\$89,269	\$470,710	\$190,565	\$6,983,596	\$454,900	\$8,373,153
Plan	2021	Liberty - Gas	B - Low-Income	B1 - Home Energy Assistance	\$74,142	\$2,966	\$40,778	\$86,005	\$74,142	\$1,204,812	\$0	\$1,482,845
Plan	2021	Liberty - Gas	A - Residential	A1 - Energy Star Homes	\$43,734	\$1,749	\$24,054	\$50,732	\$43,734	\$710,685	\$0	\$874,689
Plan	2021	Liberty - Gas	A - Residential	A2 - Home Performance with Energy Star	\$51,498	\$2,060	\$28,324	\$59,738	\$51,498	\$836,842	\$0	\$1,029,960
Plan	2021	Liberty - Gas	A - Residential	A3 - Energy Star Products	\$48,218	\$1,929	\$26,520	\$55,933	\$48,218	\$783,548	\$0	\$964,367
Plan	2021	Liberty - Gas	A - Residential	A4 - Residential Behavior	\$14,350	\$574	\$7,892	\$16,646	\$14,350	\$233,183	\$0	\$286,995
Plan	2021	Liberty - Gas	C - Commercial & Industrial	C1 - Large Business Energy Solutions	\$109,534	\$4,381	\$60,244	\$127,059	\$109,534	\$1,779,924	\$0	\$2,190,676
Plan	2021	Liberty - Gas	C - Commercial & Industrial	C2 - Small Business Energy Solutions	\$90,257	\$3,610	\$49,641	\$104,698	\$90,257	\$1,466,675	\$0	\$1,805,139
Plan	2021	Liberty - Gas	C - Commercial & Industrial	C6c - C&I Education	\$4,397	\$176	\$2,418	\$5,101	\$4,397	\$71,455	\$0	\$87,944
Plan	2021	Liberty - Gas	D - Portfolio	Performance Incentive - Portfolio	\$0	\$0	\$0	\$0	\$0	\$0	\$479,744	\$479,744
Plan	2021	Liberty - Gas	Total Portfolio		\$436,131	\$17,445	\$239,872	\$505,912	\$436,131	\$7,087,125	\$479,744	\$9,202,359

Note: Liberty (Gas) did not expend any program dollars on "Subsidiaries", as the Company does not have any subsidiaries.

Program Funding by Category						
Plan or Actual	Year	Utility	Category	Amount		
Plan	2016	Liberty - Gas	LDAC	\$5,925,057		
Plan	2016	Liberty - Gas	Carryforward	\$146,503		
Plan	2016	Liberty - Gas	Total	\$6,071,560		
		•				
Actual	2016	Liberty - Gas	LDAC	\$5,466,915		
Actual	2016	Liberty - Gas	Interest	\$47,884		
Actual	2016	Liberty - Gas	Total	\$5,514,799		
Plan	2017	Liberty - Gas	LDAC	\$5,436,100		
Plan	2017	Liberty - Gas	Carryforward	\$802,875		
Plan	2017	Liberty - Gas	Total	\$6,238,975		
				4		
Actual	2017	Liberty - Gas	LDAC	\$4,858,396		
Actual	2017	Liberty - Gas	Interest	\$35,412		
Actual	2017	Liberty - Gas	Total	\$4,893,808		
Diam	2010	Liboutu Coo	LDAG	¢7.554.407		
Plan Plan	2018 2018	Liberty - Gas	LDAC	\$7,554,407		
Plan		Liberty - Gas Liberty - Gas	Carryforward Total	\$0 \$7,554,407		
Pian	2018	Liberty - Gas	Total	\$7,554,407		
Actual	2018	Liberty - Gas	LDAC	\$6,880,078		
Actual	2018	Liberty - Gas	Interest	\$98,511		
Actual	2018	Liberty - Gas	Total	\$6,978,589		
Actual	2018	Liberty - Gas	Total	50,576,565		
Plan	2019	Liberty - Gas	LDAC	\$6,558,495		
Plan	2019	Liberty - Gas	Carryforward	\$1,573,333		
Plan	2019	Liberty - Gas	Allocation to OBF	\$875,000		
Plan	2019	Liberty - Gas	Total	\$9,006,828		
			1014	+3,000,010		
Actual	2019	Liberty - Gas	LDAC	\$6,634,306		
Actual	2019	Liberty - Gas	Interest	\$53,169		
Actual	2019	Liberty - Gas	Total	\$6,687,475		
Plan	2020	Liberty - Gas	LDAC	\$9,461,864		
Plan	2020	Liberty - Gas	Carryforward	(\$259,505)		
Plan	2020	Liberty - Gas	Total	\$9,202,359		
Actual	2020	Liberty - Gas	LDAC	\$8,360,443		
Actual	2020	Liberty - Gas	Interest	\$6,381		
Actual	2020	Liberty - Gas	Total	\$8,366,824		
Dlan	2024	Liborto C	IDAC	ć0 202 250		
Plan Plan	2021 2021	Liberty - Gas	LDAC	\$9,202,359 \$0		
		Liberty - Gas Liberty - Gas	Carryforward	\$9,202,359		
Plan	2021	Liberty - Gas	Total	33,2U2,35 <u>9</u>		
Actual	2021	Liberty - Gas	LDAC	\$9,426,501		
Actual	2021	Liberty - Gas	Interest	\$40,771		
Actual	2021	Liberty - Gas	Total	\$9,467,272		
	-721	-15014 003	10441	73,407,272		

HEA Projects, By Incentive Level - 2021					
Rebate Range	Owner Occupied	Renter Occupied			
Repate Kange	Dwelling	Dwelling			
\$0-\$9K	7	210			
\$9K-\$12K	6	4			
\$12K-\$15K	5	0			
\$15K+	9	16			

Notes

- (1) The Company has not historically required internal tracking of renter vs. owner-occupied projects, and therefore cannot guarantee the accuracy of this field.
- (2) It is assumed by the Utilities that 100% of the benefits from these projects flow to the occupant of the home.

HEA Proje	ects, Incentive A	Above \$15,000 -	2021		
Project	Sq Ft	Dwelling Type	Owner/Renter	Heating System Replacement	Details
1	6.300	Multi-family	Renter	N	Air sealing, insulation, ventilation and window replacements; 15 dwelling units
2	·	Single family	Renter	Υ	Comprehensive wxn, plus ventilation, safety measures and furnace replacement; Mobile home
3	300	Multi-family	Renter	Y	Comprehensive wxn, storage removal measures to make space, plumbing repair, ventilation, and new boiler for heat and DHW; 3 dwelling units
		,			Comprehensive wxn, Furnace replace, DHW tank replace, Lead safe
4	800	Single family	Renter	Y	measures Comprehensive wxn, clean ,tune and repair heating, basement wall ext.
5	1,124	Single family	Owner	N	wall insulation. Ventilation. Comprehensive wxn, ventilation, new heat distribution, substantial boiler
6	1,483	Multi-family	Renter	Υ	repair, new DHW tank; 3 dwelling units Comprehensive wxn, plus ventilation, safety measures and furnace
7	1,196	Multi-family	Renter	Υ	replacement.
8	1,714	Single family	Owner	Υ	Comprehensive wxn, ventilation, new boiler, ventilation, lead safe work
9	1,384	Multi-family	Renter	Υ	Comprehensive wxn, all new ductwork, furnace repair, ventilation, new boiler, ventilation, lead safe work; 12 dwelling units
10	1.836	Single family	Owner	N	Comprehensive wxn, attic insulation, basement wall ext. wall insulation. Ventilation.
11		Multi-family	Renter	Υ	Comprehensive wxn, Furnace replace, DHW tankless replace, Lead safe measures; 4 dwelling units
12	1 240	Single family	Pontor	N	Comprehensive wxn of this Mobile Home unit, new entry door, Furnace clean, DHW tankless replace, ventilation,
		Single family	Renter		Air sealing and basement insulation, ventilation, New boiler; 3 dwelling
13	not available	Multi-family	Renter	Υ	units
14	1,360	Single family	Owner	Υ	Comprehensive wxn, attic insulation, basement wall, ext. wall insulation, boiler replacement, safety, Ventilation.
15	1,272	Multi-family	Renter	Υ	Comprehensive wxn, storage removal measures to make space, plumbing repair, ventilation, and new boiler for heat and DHW; 3 dwelling units
16	1,320	Multi-family	Renter	Υ	Comprehensive wxn, ventilation, and new boiler for heat and DHW; 3 dwelling units
17	1,320	Multi-family	Renter	Υ	Comprehensive wxn, ventilation, and new boiler for heat and DHW; 3 dwelling units
10					Air sealing plus ventilation, new heating system and DHW replacements.; Non Profit Organization (Mission) Assisting the Homeless providing food, shelter and counseling. The lower level of the building is a finished heated space and is the location of the shower & boiler rooms plus sleeping
18	3,448	Multi-family	Renter	Y	quarters. Comprehensive wxn, attic insulation, basement wall, ext. wall insulation.
19	1,123	Single family	Owner	N	Ventilation. Air sealing plus ventilation, new heating system and DHW replacements;
20	3,448	Multi-family	Renter	Υ	Non Profit Organization (Mission) Assisting the Homeless providing food, shelter and counseling. The lower level of the building is a finished heated space and is the location of the shower & boiler rooms plus sleeping quarters.
	, ,	,			Air sealing plus ventilation, new heating system and DHW replacements; Non Profit Organization (Mission) Assisting the Homeless providing food, shelter and counseling. The lower level of the building is a finished heated space and is the location of the shower & boiler rooms plus sleeping
21	3,448	Multi-family	Renter	Υ	quarters. Air sealing plus ventilation, new heating system and DHW replacements;
22	3,448	Multi-family	Renter	Υ	Non Profit Organization (Mission) Assisting the Homeless providing food, shelter and counseling. The lower level of the building is a finished heated space and is the location of the shower & boiler rooms plus sleeping quarters.
23	896	Multi-family	Renter	Y	Comprehensive wxn of this Mobile Home unit, new entry door, Furnace replace, ventilation, safety
24		Multi-family	Renter	N	Comprehensive wxn, ventilation, safety, 2 dwelling units
25	2,000	Single family	Owner	Υ	Comprehensive wxn, furnace replace, attic insulation, basement wall, Ventilation. Safety.