Program Cost-Effectiveness - 2023 Actuals

| | B/C Ratio Granite State Test | Benefits (\$000) Granite State Test (2023\$) | | Utility Costs (\$000 - 2023\$) ² | | Customer Costs (\$000 - 2023\$) ² | Number of Customers Served | Annual Net MMBtu Savings | Lifetime Net MMBtu Savings |
|--|------------------------------------|--|----|--|----|---|----------------------------------|-----------------------------|----------------------------------|
| Residential Programs | | | | | | | | | |
| B1 - Home Energy Assistance | 2.75 | \$ 1,432.7 | \$ | 520.7 | \$ | - | 84 | 1,756.7 | 33,756.7 |
| A1 - Energy Star Homes | 1.31 | \$ 233.6 | \$ | 178.5 | \$ | 114.0 | 63 | 1,161.5 | 24,993.8 |
| A2 - Home Performance with Energy Star | 0.92 | \$ 268.1 | \$ | 291.9 | \$ | 71.8 | 42 | 1,345.5 | 26,399.9 |
| A3 - Energy Star Products | 2.26 | \$ 422.1 | \$ | 186.5 | \$ | 242.0 | 213 | 2,567.7 | 45,325.3 |
| A4 - Residential Behavior | 6.47 | \$ 163.7 | \$ | 25.3 | \$ | - | 11,728 | 17,045.0 | 17,045.0 |
| A6c - Res Education | - | \$ - | \$ | 5.8 | \$ | - | - | - | - |
| Sub-Total Residential | 2.09 | \$ 2,520.3 | \$ | 1,208.8 | \$ | 427.7 | 12,130 | 23,876.3 | 147,520.6 |
| Commercial, Industrial & Municipal | | | | | | | | | |
| C1 - Large Business Energy Solutions | 5.31 | \$ 3,694.0 | \$ | 695.5 | \$ | 717.1 | 7 | 21,001.2 | 430,472.5 |
| C2 - Small Business Energy Solutions | 1.75 | \$ 493.0 | \$ | 282.3 | \$ | 127.8 | 32 | 3,220.7 | 51,076.6 |
| C6c - C&I Education | - | \$ - | \$ | 10.0 | \$ | - | - | - | - |
| Sub-Total Commercial & Industrial | 4.24 | \$ 4,187.0 | \$ | 987.9 | \$ | 844.9 | 39 | 24,221.8 | 481,549.1 |
| Total | 3.05 | \$ 6,707.3 | \$ | 2,196.6 | \$ | 1,272.6 | 12,169 | 48,098.1 | 629,069.7 |

- (1) The Granite State Test is used as the primary cost test, as approved in Order No. 26,322, and includes an annual NEI adder of \$405.71 per weatherization project in the Home Energy Assistance program.
- (2) Utility and Customer Costs and Benefits are expressed in 2023 Dollars.
- (3) Per past precedent, discount and inflation rates have been updated for the year in which measures will be installed, and were updated as of June 2021 for program years 2022-2023.

Program Cost-Effectiveness - 2023 PLAN

| | B/C Ratio Granite State Test | nefits (\$000) anite State Test (2023\$) | Utility Costs \$000 - 2023\$) ² | _ | ustomer Costs \$000 - 2023\$) ² | Number of Customers Served ⁴ | Annual Net MMBtu Savings | Lifetime Net MMBtu Savings |
|--|------------------------------------|---|---|----|---|---|-----------------------------|----------------------------------|
| Residential Programs | | | | | | | | |
| B1 - Home Energy Assistance | 0.98 | \$ 484.1 | \$ 494.9 | \$ | - | 56 | 2,208.4 | 47,567.5 |
| A1 - Energy Star Homes | 1.87 | \$ 620.9 | \$ 331.6 | \$ | 128.8 | 106 | 2,637.0 | 63,425.0 |
| A2 - Home Performance with Energy Star | 1.08 | \$ 386.0 | \$ 358.6 | \$ | 82.2 | 75 | 1,798.6 | 38,254.5 |
| A3 - Energy Star Products | 1.77 | \$ 308.0 | \$ 173.7 | \$ | 131.7 | 182 | 1,835.6 | 32,492.1 |
| A4 - Residential Behavior | 1.26 | \$ 56.2 | \$ 44.7 | \$ | - | 11,200 | 5,847.4 | 5,847.4 |
| A6c - Res Education | - | \$ - | \$ 20.7 | \$ | - | - | - | - |
| Sub-Total Residential | 1.30 | \$ 1,855.1 | \$ 1,424.0 | \$ | 342.7 | 11,619 | 14,327.0 | 187,586.5 |
| Commercial, Industrial & Municipal | | | | | | | | |
| C1 - Large Business Energy Solutions | 3.71 | \$ 1,922.1 | \$ 518.4 | \$ | 537.2 | 108 | 14,307.9 | 220,365.6 |
| C2 - Small Business Energy Solutions | 3.00 | \$ 1,540.6 | \$ 513.6 | \$ | 184.9 | 140 | 10,830.0 | 156,347.9 |
| C6c - C&I Education | - | \$ - | \$ 18.5 | \$ | - | - | - | - |
| C6d - C&I Customer Partnerships | - | \$ - | \$ - | \$ | - | - | - | - |
| Sub-Total Commercial & Industrial | 3.30 | \$ 3,462.6 | \$ 1,050.5 | \$ | 722.2 | 248 | 25,137.8 | 376,713.5 |
| Total | 2.15 | \$ 5,317.7 | \$ 2,474.5 | \$ | 1,064.9 | 11,867 | 39,464.8 | 564,300.0 |

- (1) The Granite State Test is used as the primary cost test, as approved in Order No. 26,322, and includes an annual NEI adder of \$405.71 per weatherization project in the Home Energy Assistance program.
- (2) Utility and Customer Costs and Benefits are expressed in 2023 Dollars.
- (3) Per past precedent, discount and inflation rates have been updated for the year in which measures will be installed, and were updated as of June 2021 for program year 2022-23.
- (4) Note that the participant counts (column R) for some programs in the 2022-23 plan filing included a formula error and have been updated to reflect actual planned participant counts. This had no impact on planned savings / benefits.

Present Value Benefits - 2023 Actuals

| | Total Benefits | | | Resource | Benefits (| \$00 | 0) | | Non-Resource Benefits (\$000) | | | | | | |
|--|----------------------------|---------------------------|-------------|-----------------------|------------|---------|---------------|----------------------------|-------------------------------|------------------------------------|------------------------------------|---------------------------|--|--|--|
| | (\$000) Granite State Test | Total Electric Benefit | Gas Benefit | Gas Benefit Gas DRIPE | | is : | Water Benefit | Total Resource Benefits | Fossil Emissions | Other Non- Resource Benefits | Total Non- Resource Benefits | Environmental Benefits | | | |
| Residential Programs | | | | | | | | | | | | | | | |
| B1 - Home Energy Assistance | \$ 1,433 | \$ 15 | \$ 27 | \$ | \$ 2 | 76 | \$ 2 | \$ 292 | \$ 50 | \$ 1,091 | \$ 1,140 | \$ 6 | | | |
| A1 - Energy Star Homes | \$ 234 | \$ - | \$ 19 | \$ | \$ 19 | 94 | \$ - | \$ 194 | \$ 39 | \$ 29 | \$ 68 | \$ - | | | |
| A2 - Home Performance with Energy Star | | \$ 7 | | | | 22 | \$ 0 | \$ 228 | \$ 40 | | \$ 74 | \$ 2 | | | |
| A3 - Energy Star Products | \$ 422 | \$ 8 | \$ 34 | | | 52 | \$ - | \$ 360 | \$ 62 | • | | | | | |
| A4 - Residential Behavior | \$ 164 | \$ - | \$ 14 | \$ | \$ 1! | 50 | \$ - | \$ 150 | \$ 14 | \$ 22 | \$ 37 | \$ - | | | |
| Sub-Total Residential | \$ 2,520 | \$ 29 | \$ 1,17 |) \$ 2 | \$ 1,19 | 94 | \$ 2 | \$ 1,225 | \$ 205 | \$ 1,230 | \$ 1,435 | \$ 11 | | | |
| Commercial/Industrial Programs | | | | | | | | | | | | | | | |
| C1 - Large Business Energy Solutions | \$ 3,694 | \$ - | \$ 2,98 | \$ \$ 5 | \$ 3,03 | 36 | \$ - | \$ 3,036 | \$ 658 | \$ 455 | \$ 1,113 | \$ - | | | |
| C2 - Small Business Energy Solutions | \$ 493 | \$ - | \$ 38 | | | 91 | \$ 32 | \$ 424 | \$ 69 | \$ 59 | \$ 128 | \$ - | | | |
| Sub-Total Commercial & Industrial | \$ 4,187 | \$ - | \$ 3,36 | 5 \$ 6 | \$ 3,42 | 28 | \$ 32 | \$ 3,460 | \$ 727 | \$ 514 | \$ 1,242 | \$ - | | | |
| Total | \$ 6,707 | \$ 29 | \$ 4,53 | 5 \$ 8 | \$ 4,62 | 21 | \$ 34 | \$ 4,685 | \$ 932 | \$ 1,745 | \$ 2,677 | \$ 11 | | | |

- (1) The Granite State Test is used as the primary cost test, as approved in Order No. 26,322. Benefits are calculated based on net savings.
- (2) Non-resource benefits include NEIs, which are only applied to the Home Energy Asssitance program in the GST primary cost test.
- (3) Non-embedded environmental benefits are not included in the GST primary cost test.

Present Value Benefits - 2023 PLAN

| | Total Benef | ts | | | | Res | source Be | enefits | s (\$000) | | | | Non-Resource Benefits (\$000) | | | | | | | |
|--|----------------------------------|----|---------------------------|----|-------------|-----|-----------|---------|-------------------|----------------|----|----------------------------|-------------------------------|---------------------|----|------------------------------------|------------------------------------|---------|----|-------------------------|
| Residential Programs | (\$000) Granite State Test | | Total Electric Benefit | | Gas Benefit | | Gas DRIPE | | tal Gas enefit | Water Benefits | | Total Resource Benefits | | Fossil Emissions | | Other Non- Resource Benefits | Total Non- Resource Benefits | | | vironmental Benefits |
| B1 - Home Energy Assistance | \$ 484 | .1 | \$ 12.0 | \$ | 390.8 | \$ | 6.7 | \$ | 397.5 | \$ - | \$ | 409.5 | \$ | 74.6 | \$ | - | \$ | 74.6 | \$ | 7.6 |
| A1 - Energy Star Homes | \$ 620 | .9 | \$ - | \$ | 508.7 | \$ | 7.7 | \$ | 516.4 | \$ - | \$ | 516.4 | \$ | 104.4 | \$ | 77.5 | \$ | 181.9 | \$ | - |
| A2 - Home Performance with Energy Star | | .0 | • | | 314.3 | \$ | 5.5 | \$ | 319.7 | \$ 0.9 | \$ | 326.2 | \$ | 59.8 | \$ | 48.8 | \$ | 108.6 | \$ | 2.9 |
| A3 - Energy Star Products | \$ 308 | .0 | \$ (0.2) | \$ | 258.6 | \$ | 5.2 | \$ | 263.8 | \$ - | \$ | 263.6 | \$ | 44.4 | \$ | 39.5 | \$ | 83.9 | \$ | (0.2) |
| A4 - Residential Behavior | \$ 56 | .2 | \$ - | \$ | 49.5 | \$ | 1.8 | \$ | 51.3 | \$ - | \$ | 51.3 | \$ | 4.9 | \$ | 7.7 | \$ | 12.6 | \$ | - |
| Sub-Total Residential | \$ 1,855 | .1 | \$ 17.4 | \$ | 1,521.9 | \$ | 26.9 | \$ | 1,548.8 | \$ 0.9 | \$ | 1,567.0 | \$ | 288.1 | \$ | 173.5 | \$ | 461.6 | \$ | 10.4 |
| Commercial/Industrial Programs | | | | ١. | | | | | | | | | | | | | | | | |
| C1 - Large Business Energy Solutions | \$ 1,922 | | | \$ | 1,570.5 | • | 36.1 | • | 1,606.5 | | | | | 291.0 | | 241.0 | | 532.0 | | - |
| C2 - Small Business Energy Solutions | \$ 1,540 | .6 | \$ - | \$ | 1,156.3 | \$ | 28.1 | \$ | 1,184.4 | \$ 155.5 | \$ | 1,339.9 | \$ | 200.7 | \$ | 177.7 | \$ | 378.4 | \$ | - |
| Sub-Total Commercial & Industrial | \$ 3,462 | .6 | \$ - | \$ | 2,726.8 | \$ | 64.2 | \$ | 2,791.0 | \$ 179.9 | \$ | 2,970.9 | \$ | 491.7 | \$ | 418.6 | \$ | 910.4 | \$ | - |
| Total | \$ 5,317 | .7 | \$ 17.4 | \$ | 4,248.7 | \$ | 91.1 | \$ | 4,339.7 | \$ 180.8 | \$ | 4,537.9 | \$ | 779.8 | \$ | 592.1 | \$ | 1,371.9 | \$ | 10.4 |

- (1) The Granite State Test is used as the primary cost test, as approved in Order No. 26,322. Benefits are calculated based on net savings.
- (2) Non-resource benefits include NEIs, which are only applied to the Home Energy Asssitance program in the GST primary cost test.
- (3) Non-embedded environmental benefits are not included in the GST primary cost test.

| | Portfolio Planned Versus Actual Performance - 2023 | | | | | | | | | | | | | | |
|----------------------------------|--|--------------|--------------|-----------|-----------|-------------|-------------|------------|------------|------------|--------------------------------------|--|--|--|--|
| | | | | | | Design | Actual | | 125% of | | | | | | |
| Portfolio | Planned | Th | hreshold | Actual | % of Plan | Coefficient | Coefficient | Planned PI | Planned PI | Actual PI | Source | | | | |
| Lifetime MMBtu Savings | | 564,300 | 423,225 | 629,070 | 111% | 2.475% | 2.759% | \$ 61,244 | \$ 76,555 | \$ 60,606 | Planned and Actual from Cost Eff Tab | | | | |
| Annual MMBtu Savings | | 39,465 | 29,599 | 48,098 | 122% | 1.100% | 1.341% | \$ 27,219 | \$ 34,024 | \$ 29,449 | Planned and Actual from Cost Eff Tab | | | | |
| Total Resource Benefits | \$ | 4,537,940 \$ | 2,949,661 \$ | 4,684,520 | 103% | | | | | \$ - | Planned and Actual from Benefits Tab | | | | |
| Total Utility Costs ¹ | \$ | 2,474,490 \$ | 1,608,419 \$ | 2,196,609 | 89% | | | | | \$ - | Planned and Actual from Cost Eff Tab | | | | |
| Net Benefits | \$ | 2,063,450 \$ | 1,341,242 \$ | 2,487,911 | 121% | 1.925% | 2.321% | \$ 47,634 | \$ 59,542 | \$ 50,983 | Line 3 minus line 4 | | | | |
| Total | | | | | | 5.500% | 6.421% | \$ 136,097 | \$ 170,121 | \$ 141,038 | | | | | |

| | | Granite St | ate T | est | |
|----|-----------------------|-----------------|-------|-----------|--------------------------------------|
| | | Planned | | Actual | Source |
| 7 | Total Benefits | \$ 5,317,738 | \$ | 6,707,271 | Planned and Actual from Cost Eff Tab |
| 8 | Performance Incentive | \$ 136,097 | \$ | 141,038 | from row 6 above |
| 9 | Total Utility Costs | \$ 2,474,490 | \$ | 2,196,609 | from row 4 above |
| 10 | Portfolio GST BCR | 2.04 | | 2.87 | row 7 divided by rows 8+9 |

Costs, Benefits, and PI Expressed in 2023 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.

2023 Annual Report Reconciliation Northern Utilities - Unitil Gas January 1, 2023 - December 31, 2023

| | | | Total 2023 | | |
|--------|-------------------------------------|------------------|-----------------|--|--|
| 1. | Ending Balance: 12/31/2022 | (Over)/Under | \$ 166,596 | | |
| 2. | Prior Year(s) True Up | | \$ (1,489) | | |
| 3. | Beginning Balance 1/1/2023 | | \$ 165,107 | | |
| 2023 R | evenues | | | | |
| 4. | Energy Efficiency Charge Revenue | | \$ 2,274,736 | | |
| 5. | Estimated Interest | | \$ 15,854 | | |
| 6. | Total Funding | ∑ Lines 4 - 5 | \$ 2,290,590 | | |
| 2023 E | xpenses | | | | |
| 7. | Program Expenses | | \$ 2,196,609 | | |
| 8. | Current Year Planned PI | | \$ 88,463 | | |
| 9. | Total Expenses | ∑ Lines 7 thru 8 | \$ 2,285,072 | | |
| 10. | Prelim Ending Balance: 12/31/2023 | Lines 3 - 6 + 9 | \$ 159,589 | | |
| 11. | Current Year Actual PI | | \$ 141,038 | | |
| 12. | Expected Ending Balance: 12/31/2023 | Line 10 - 8 + 11 | \$ 212,163 | | |

Notes:

Line 2: Prior Year(s) True-Up reflects adjustments to the 2022 ending balance related to 2022 PI and interest, as booked in 2023

Line 11: Current Year (2023) Actual PI reflects the PI calculation from this annual report.

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2023 Annual Report Reconciliation Northern Utilities - Unitil Gas On-Bill Financing January 1, 2023 - December 31, 2023

Revenue and Expense Reconciliation

| Beginning Balance: 1/1/2023 | \$ | <u>Resi</u> 71,572 | \$ | <u>C&I</u> 203,000 | \$ | <u>Total</u> 274,572 |
|---|----------------|-----------------------|----------------|----------------------------------|----------------|-------------------------|
| 2023 Activity New Funding 2023 Loans to Customers 2023 Payments from Customers 2023 | \$ \$ \$ | / | \$ \$ \$ | - - - | \$ \$ \$ | - 22,500 9,694 |
| Ending Balance: 12/31/2023 | \$ | 58,766 | \$ | 203,000 | \$ | 261,766 |