

Duke Energy Carolinas
Evans Exhibit 1
Vintage 2018 True Up - January 1, 2018 to December 31, 2018
Docket Number E-7, Sub 1265
Load Impacts and Estimated Revenue Requirements by Program

| | A | B | C | D | E | F | G | H | | |
|--|-----------------------------------|-------------------------------|-----------------------------|----------------|------------------|---------------|----------------------------|--|--------------------------|--|
| | | | | =(A-B)*C | | =(B+D) | | | | |
| Residential Programs | System kW Reduction - Summer | System Energy Reduction (kWh) | System NPV of Avoided Costs | Total Cost | Shared Savings % | Incentive | System Revenue Requirement | NC Retail kWh Sales Allocation Factor | NC Allocation Factor (2) | NC Residential Revenue Requirement |
| EE Programs | | | | | | | | | | |
| 1 Energy Efficiency Education | 967 | 5,530,707 | \$ 2,863,856 | \$ 1,992,260 | 11.5% | \$ 100,234 | \$ 2,092,493 | 72.7130507% | E1 * F1 | \$ 1,521,516 |
| 2 Energy Efficient Appliances and Devices | 35,125 | 194,356,910 | \$ 137,713,128 | \$ 42,687,244 | 11.5% | \$ 10,927,977 | \$ 53,615,221 | 72.7130507% | E2 * F2 | \$ 38,985,262 |
| 3 HVAC Energy Efficiency | 1,640 | 6,367,174 | \$ 7,089,332 | \$ 6,955,146 | 11.5% | \$ 15,431 | \$ 6,970,577 | 72.7130507% | E3 * F3 | \$ 5,068,520 |
| 4 Low Income Energy Efficiency and Weatherization Assistance | 888 | 6,845,653 | \$ 4,253,631 | \$ 6,490,735 | 0.0% | \$ - | \$ 6,490,735 | 72.7130507% | E4 * F4 | \$ 4,719,611 |
| 5 Multi-Family Energy Efficiency | 2,336 | 20,923,363 | \$ 13,616,696 | \$ 3,604,921 | 11.5% | \$ 1,151,354 | \$ 4,756,276 | 72.7130507% | E5 * F5 | \$ 3,458,433 |
| 6 Residential Energy Assessments | 929 | 7,716,668 | \$ 5,757,648 | \$ 2,836,229 | 11.5% | \$ 335,963 | \$ 3,172,192 | 72.7130507% | E6 * F6 | \$ 2,306,597 |
| 7 Total for Residential Conservation Programs | 41,885 | 241,740,474 | \$ 171,294,293 | \$ 64,566,534 | | \$ 12,530,959 | \$ 77,097,493 | | | \$ 56,059,939 |
| 8 My Home Energy Report | 95,887 | 344,759,844 | \$ 22,687,264 | \$ 12,765,286 | 11.5% | \$ 1,141,027 | \$ 13,906,313 | 72.7130507% | E8 * F8 | \$ 10,111,705 |
| 9 Total Residential Conservation and Behavioral Programs | 137,772 | 586,500,319 | \$ 193,981,557 | \$ 77,331,820 | | \$ 13,671,987 | \$ 91,003,807 | | | \$ 66,171,644 |
| 10 Power Manager® | 533,506 | - | \$ 61,927,510 | \$ 14,423,610 | 11.5% | \$ 5,462,949 | \$ 19,886,558 | NC Residential Peak Demand Allocation Factor 73.6287551% | 43.675154% | (E10+E26) *F10 *G10 \$ 12,360,739 |
| 11 Total Residential | 671,278 | 586,500,319 | \$ 255,909,067 | \$ 91,755,430 | | \$ 19,134,935 | \$ 110,890,365 | | | \$ 78,532,383 |
| Non-Residential Programs | System kW Reduction - Summer Peak | System Energy Reduction (kWh) | System NPV of Avoided Costs | Total Cost | Shared Savings % | Incentive | System Revenue Requirement | NC Retail kWh Sales Allocation Factor | | NC Non-Residential Revenue Requirement |
| EE Programs | | | | | | | | | | |
| 12 Non Residential Smart Saver Custom Technical Assessments | 13 | 83,588 | \$ 67,315 | \$ 407,293 | 11.5% | \$ (39,098) | \$ 368,196 | 72.7130507% | E12 * F12 | \$ 267,726 |
| 13 Non Residential Smart Saver Custom | 4,054 | 30,333,040 | \$ 23,324,992 | \$ 6,068,902 | 11.5% | \$ 1,984,450 | \$ 8,053,352 | 72.7130507% | E13 * F13 | \$ 5,855,838 |
| 14 Non Residential Smart Saver Energy Efficient Food Service Products | 59 | 744,066 | \$ 433,251 | \$ 235,605 | 11.5% | \$ 22,729 | \$ 258,334 | 72.7130507% | E14 * F14 | \$ 187,843 |
| 15 Non Residential Smart Saver Energy Efficient HVAC Products | 893 | 2,908,386 | \$ 2,810,482 | \$ 1,620,748 | 11.5% | \$ 136,819 | \$ 1,757,567 | 72.7130507% | E16 * F16 | \$ 1,277,981 |
| 16 Non Residential Smart Saver Energy Efficient Lighting Products | 31,548 | 177,845,339 | \$ 146,397,190 | \$ 25,872,380 | 11.5% | \$ 13,860,353 | \$ 39,732,733 | 72.7130507% | E17 * F17 | \$ 28,890,882 |
| 17 Non Residential Smart Saver Energy Efficient Pumps and Drives Products | 421 | 2,669,016 | \$ 1,617,951 | \$ 277,785 | 11.5% | \$ 154,119 | \$ 431,904 | 72.7130507% | E18 * F18 | \$ 314,051 |
| 18 Non Residential Energy Efficient ITEE | - | 17,639 | \$ 3,025 | \$ 36,875 | 11.5% | \$ (3,893) | \$ 32,982 | 72.7130507% | E19 * F19 | \$ 23,982 |
| 19 Non Residential Smart Saver Energy Efficient Process Equipment Products | 75 | 331,222 | \$ 226,753 | \$ 67,509 | 11.5% | \$ 18,313 | \$ 85,822 | 72.7130507% | E20 * F20 | \$ 62,404 |
| 20 Smart Saver(R) Non Residential Performance Incentive Program | 168 | 3,271,186 | \$ 1,672,015 | \$ 479,610 | 11.5% | \$ 137,127 | \$ 616,737 | 72.7130507% | E21 * F21 | \$ 448,448 |
| 21 Small Business Energy Saver | 13,374 | 76,696,523 | \$ 46,838,770 | \$ 15,977,993 | 11.5% | \$ 3,548,989 | \$ 19,526,983 | 72.7130507% | E22 * F22 | \$ 14,198,665 |
| 22 Smart Energy in Offices | 310 | 1,488,592 | \$ 143,303 | \$ 219,748 | 11.5% | \$ (8,791) | \$ 210,957 | 72.7130507% | E23 * F23 | \$ 153,393 |
| 23 Total for Non-Residential Conservation Programs | 50,914 | 296,388,596 | \$ 223,535,047 | \$ 51,264,448 | | \$ 19,811,119 | \$ 71,075,567 | | | \$ 51,681,213 |
| 24 EnergyWise for Business | 7,999 | 2,599,904 | \$ 2,280,310 | \$ 3,062,816 | 11.5% | \$ (89,988) | \$ 2,972,828 | NC Non-Residential Peak Demand Allocation Factor 73.6287551% | | |
| 25 PowerShare® | 332,631 | - | \$ 36,016,805 | \$ 12,922,977 | 11.5% | \$ 2,655,790 | \$ 15,578,768 | 73.6287551% | 56.324846% | (E10+E26) *F26 *G26 \$ 15,940,796 |
| 26 Total for Non-Residential DSM Programs | 340,629 | 2,599,904 | \$ 38,297,115 | \$ 15,985,794 | | \$ 2,565,802 | \$ 18,551,596 | 73.6287551% | | |
| 27 Total Non Residential | 391,543.87415 | 298,988,500 | \$ 261,832,162 | \$ 67,250,242 | | \$ 22,376,921 | \$ 89,627,162 | | | \$ 67,622,009 |
| 28 Total All Programs | 1,062,822 | 885,488,819 | \$ 517,741,229 | \$ 159,005,671 | | \$ 41,511,856 | \$ 200,517,527 | | | \$ 146,154,391 |

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

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| | A | B | C | D | E | F | G | H | | |
|--|--------------------------------------|----------------------------------|--------------------------------|----------------|------------------|---------------|-------------------------------|--|-----------------------------|---|
| | | | | =(A-B)*C | | | =(B+D) | | | |
| | System kW Reduction - Summer Peak | System Energy Reduction (kWh) | System NPV of Avoided Costs | Total Cost | Shared Savings % | Incentive | System Revenue Requirement | NC Retail kWh Sales Allocation Factor | NC Allocation Factor (2) | NC Residential Revenue Requirement |
| Residential Programs | | | | | | | | | | |
| EE Programs | | | | | | | | | | |
| 1 Energy Efficiency Education | 841 | 6,713,787 | \$ 2,519,645 | \$ 1,644,077 | 11.5% | \$ 100,690 | \$ 1,744,767 | 73.0903918% | | E1 * F1 \$ 1,275,257 |
| 2 Energy Efficient Appliances and Devices | 31,844 | 187,571,870 | \$ 102,716,013 | \$ 40,433,533 | 11.5% | \$ 7,162,485 | \$ 47,596,018 | 73.0903918% | | E2 * F2 \$ 34,788,116 |
| 3 HVAC Energy Efficiency | 2,029 | 7,329,114 | \$ 7,079,940 | \$ 7,402,907 | 11.5% | \$ (37,141) | \$ 7,365,766 | 73.0903918% | | E3 * F3 \$ 5,383,667 |
| 4 Low Income Energy Efficiency and Weatherization Assistance | 1,189 | 8,501,375 | \$ 3,421,362 | \$ 7,344,325 | 0.0% | \$ - | \$ 7,344,325 | 73.0903918% | | E4 * F4 \$ 5,367,996 |
| 5 Multi-Family Energy Efficiency | 2,610 | 21,339,210 | \$ 10,815,659 | \$ 3,681,262 | 11.5% | \$ 820,456 | \$ 4,501,718 | 73.0903918% | | E5 * F5 \$ 3,290,323 |
| 6 Residential Energy Assessments | 946 | 7,886,916 | \$ 4,413,585 | \$ 3,153,757 | 11.5% | \$ 144,880 | \$ 3,298,637 | 73.0903918% | | E6 * F6 \$ 2,410,987 |
| 7 Total for Residential Conservation Programs | 39,460 | 239,342,273 | \$ 130,966,204 | \$ 63,659,861 | | \$ 8,191,370 | \$ 71,851,232 | | | \$ 52,516,346 |
| 8 My Home Energy Report | 91,387 | 328,439,103 | \$ 23,361,954 | \$ 10,558,344 | 11.5% | \$ 1,472,415 | \$ 12,030,759 | 73.0903918% | | E8 * F8 \$ 8,793,329 |
| 9 Total Residential Conservation and Behavioral Programs | 130,847 | 567,781,375 | \$ 154,328,158 | \$ 74,218,205 | | \$ 9,663,785 | \$ 83,881,991 | | | \$ 61,309,675 |
| | | | | | | | | | | |
| 10 Power Manager* | 568,235 | - | \$ 69,783,157 | \$ 13,386,942 | 11.5% | \$ 6,485,565 | \$ 19,872,507 | NC Residential Peak Demand Allocation Factor 74.2414264% | 45.955615% | (E10+E26) *F10 *G10 \$ 13,609,891 |
| 11 Total Residential | 699,082 | 567,781,375 | \$ 224,111,315 | \$ 87,605,147 | | \$ 16,149,350 | \$ 103,754,497 | | | \$ 74,919,566 |
| | | | | | | | | | | |
| | System kW Reduction - Summer Peak | System Energy Reduction (kWh) | System NPV of Avoided Costs | Total Cost | Shared Savings % | Incentive | System Revenue Requirement | NC Retail kWh Sales Allocation Factor | | NC Non-Residential Revenue Requirement |
| Non-Residential Programs | | | | | | | | | | |
| EE Programs | | | | | | | | | | |
| 12 Non Residential Energy Efficient ITEE | - | 11,262 | \$ 1,385 | \$ 44,335 | 11.5% | \$ (4,939) | \$ 39,395 | 73.0903918% | | E12 * F12 \$ 28,794 |
| 13 Non Residential Smart Saver Custom | 10,109 | 52,522,612 | \$ 35,884,367 | \$ 8,873,872 | 11.5% | \$ 3,106,207 | \$ 11,980,079 | 73.0903918% | | E13 * F13 \$ 8,756,287 |
| 14 Non Residential Smart Saver Custom Technical Assessments | 148 | 1,930,762 | \$ 691,285 | \$ 296,006 | 11.5% | \$ 45,457 | \$ 341,463 | 73.0903918% | | E14 * F14 \$ 249,577 |
| 15 Non Residential Smart Saver Energy Efficient Food Service Products | 78 | 997,611 | \$ 412,886 | \$ 339,996 | 11.5% | \$ 8,382 | \$ 348,378 | 73.0903918% | | E16 * F16 \$ 254,631 |
| 16 Non Residential Smart Saver Energy Efficient HVAC Products | 1,696 | 7,533,194 | \$ 5,516,665 | \$ 2,208,364 | 11.5% | \$ 380,455 | \$ 2,588,818 | 73.0903918% | | E17 * F17 \$ 1,892,178 |
| 17 Non Residential Smart Saver Energy Efficient Lighting Products | 29,566 | 163,560,290 | \$ 105,608,459 | \$ 20,834,766 | 11.5% | \$ 9,748,975 | \$ 30,583,741 | 73.0903918% | | E18 * F18 \$ 22,353,776 |
| 18 Non Residential Smart Saver Energy Efficient Process Equipment Products | 111 | 732,043 | \$ 416,343 | \$ 119,843 | 11.5% | \$ 34,097 | \$ 153,941 | 73.0903918% | | E19 * F19 \$ 112,516 |
| 19 Non Residential Smart Saver Energy Efficient Pumps and Drives Products | 232 | 1,460,589 | \$ 720,816 | \$ 189,172 | 11.5% | \$ 61,139 | \$ 250,311 | 73.0903918% | | E20 * F20 \$ 182,953 |
| 20 Smart Saver(R) Non Residential Performance Incentive Program | 391 | 4,545,995 | \$ 2,238,186 | \$ 785,165 | 11.5% | \$ 167,097 | \$ 952,262 | 73.0903918% | | E21 * F21 \$ 696,012 |
| 21 Small Business Energy Saver | 9,196 | 53,674,194 | \$ 25,661,729 | \$ 11,421,399 | 11.5% | \$ 1,637,638 | \$ 13,059,037 | 73.0903918% | | E22 * F22 \$ 9,544,901 |
| 22 Smart Energy in Offices | - | - | \$ - | \$ - | 11.5% | \$ - | \$ - | 73.0903918% | | E23 * F23 \$ - |
| 23 Total for Non-Residential Conservation Programs | 51,527 | 286,968,552 | \$ 177,152,121 | \$ 45,112,917 | | \$ 15,184,508 | \$ 60,297,426 | | | \$ 44,071,625 |
| | | | | | | | | | | |
| | | | | | | | | NC Non-Residential Peak Demand Allocation Factor 74.2414264% | | |
| 24 EnergyWise for Business | 11,716 | 5,148,231 | \$ 3,400,854 | \$ 3,687,462 | 11.5% | \$ (32,960) | \$ 3,654,502 | 74.2414264% | | |
| 25 Powershare* | 342,590 | - | \$ 42,072,382 | \$ 13,022,816 | 11.5% | \$ 3,340,700 | \$ 16,363,516 | 74.2414264% | | |
| 26 Total for Non-Residential DSM Programs | 354,306 | 5,148,231 | \$ 45,473,236 | \$ 16,710,278 | | \$ 3,307,740 | \$ 20,018,018 | 74.2414264% | 54.044385% | (E10+E26) *F26 *G26 \$ 16,005,404 |
| 27 Total Non Residential | 405,834 | 292,116,783 | \$ 222,625,357 | \$ 61,823,195 | | \$ 18,492,249 | \$ 80,315,444 | | | \$ 60,077,029 |
| 28 Total All Programs | 1,104,916 | 859,898,158 | \$ 446,736,672 | \$ 149,428,343 | | \$ 34,641,599 | \$ 184,069,941 | | | \$ 134,996,595 |
| | - | - | \$ - | \$ - | | \$ - | \$ - | | | \$ (0) |

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

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| | A | B | C | D | E | F | G | H |
|--|---|---|---|----------|---|---|---|---|
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(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

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| | A | B | C | D | E | F | G | H |
|--|---|---|----------------------------------|--------------------------------|----------------|------------------|---------------|---|
| | | | | =(A-B)*C | =(B+D) | | | |
| | System kW Reduction - Summer Peak | System kW Reduction - Winter Peak | System Energy Reduction (kWh) | System NPV of Avoided Costs | Total Cost | Shared Savings % | Incentive | System Revenue Requirement |
| Residential Programs | | | | | | | | NC Retail kWh Sales Allocation Factor |
| EE Programs | | | | | | | | NC Allocation Factor (2) |
| 1 Energy Efficiency Education | (1,192) | 40 | 7,013,162 | \$ 1,513,478 | \$ 1,147,501 | 11.5% | \$ 42,087 | \$ 1,189,588 |
| 2 Energy Efficient Appliances and Devices | 8,813 | 6,584 | 51,700,835 | \$ 25,474,094 | \$ 10,824,171 | 11.5% | \$ 1,684,741 | \$ 12,508,912 |
| 3 Residential - Smart Saver Energy Efficiency Program | 2,556 | 2,713 | 9,425,875 | \$ 8,402,753 | \$ 8,156,036 | 11.5% | \$ 28,372 | \$ 8,184,408 |
| 4 Low Income Energy Efficiency and Weatherization Assistance | 493 | 492 | 2,545,882 | \$ 1,452,358 | \$ 4,634,161 | 0.0% | \$ - | \$ 4,634,161 |
| 5 Multi-Family Energy Efficiency | 279 | 362 | 2,019,667 | \$ 993,893 | \$ 517,454 | 11.5% | \$ 54,791 | \$ 572,244 |
| 6 Residential Energy Assessments | 748 | 573 | 6,590,951 | \$ 3,278,832 | \$ 3,326,179 | 11.5% | \$ (5,445) | \$ 3,320,734 |
| 7 Total for Residential Conservation Programs | 11,697 | 10,763 | 79,295,972 | \$ 41,115,407 | \$ 28,605,502 | | \$ 1,804,547 | \$ 30,410,048 |
| 8 My Home Energy Report | 93,380 | 81,339 | 336,292,411 | \$ 21,313,709 | \$ 7,072,233 | 11.5% | \$ 1,637,770 | \$ 8,710,003 |
| 9 Total Residential Conservation and Behavioral Programs | 105,077 | 92,102 | 415,588,383 | \$ 62,429,117 | \$ 35,677,734 | | \$ 3,442,316 | \$ 39,120,051 |
| 10 Power Manager® | 456,664 | - | - | \$ 57,584,854 | \$ 16,829,058 | 11.5% | \$ 4,686,917 | \$ 21,515,975 |
| 11 Total Residential | 561,741 | 92,102 | 415,588,383 | \$ 120,013,971 | \$ 52,506,792 | | \$ 8,129,233 | \$ 60,636,025 |
| | | | | | | | | NC Residential Peak Demand Allocation Factor |
| | | | | | | | | 74.3563771% |
| | | | | | | | | 47.000070% |
| | | | | | | | | (E10+E26) *F10 *G10 |
| | | | | | | | | \$ 14,259,587 |
| | | | | | | | | \$ 43,021,966 |
| Non-Residential Programs | System kW Reduction - Summer Peak | System kW Reduction - Winter Peak | System Energy Reduction (kWh) | System NPV of Avoided Costs | Total Cost | Shared Savings % | Incentive | System Revenue Requirement |
| EE Programs | | | | | | | | NC Retail kWh Sales Allocation Factor |
| 12 Non Residential Energy Efficient ITEE | - | - | 2,353 | \$ 416 | \$ 74,699 | 11.5% | \$ (8,543) | \$ 66,156 |
| 13 Non Residential Smart Saver Custom | 6,572 | 4,125 | 30,798,533 | \$ 19,324,372 | \$ 7,505,201 | 11.5% | \$ 1,359,205 | \$ 8,864,406 |
| 14 Non Residential Smart Saver Custom Technical Assessments | 110 | 6 | 921,248 | \$ 432,158 | \$ 293,539 | 11.5% | \$ 15,941 | \$ 309,480 |
| 15 Non Residential Smart Saver Energy Efficient Food Service Products | 80 | 75 | 1,201,408 | \$ 479,963 | \$ 203,130 | 11.5% | \$ 31,836 | \$ 234,966 |
| 16 Non Residential Smart Saver Energy Efficient HVAC Products | 3,325 | 5,262 | 21,054,972 | \$ 14,900,228 | \$ 4,899,800 | 11.5% | \$ 1,150,049 | \$ 6,049,849 |
| 17 Non Residential Smart Saver Energy Efficient Lighting Products | 20,325 | 19,283 | 116,783,529 | \$ 68,949,662 | \$ 17,924,291 | 11.5% | \$ 5,867,918 | \$ 23,792,209 |
| 18 Non Residential Smart Saver Energy Efficient Process Equipment Products | 117 | 117 | 824,803 | \$ 257,010 | \$ 87,540 | 11.5% | \$ 19,489 | \$ 107,029 |
| 19 Non Residential Smart Saver Energy Efficient Pumps and Drives Products | 239 | 244 | 1,521,286 | \$ 666,628 | \$ 202,615 | 11.5% | \$ 53,362 | \$ 255,977 |
| 20 Smart Saver(R) Non Residential Performance Incentive Program | 1,079 | 1,040 | 8,247,437 | \$ 4,234,077 | \$ 342,826 | 11.5% | \$ 447,494 | \$ 790,320 |
| 21 Small Business Energy Saver | 7,011 | 8,209 | 38,560,812 | \$ 18,680,538 | \$ 8,935,952 | 11.5% | \$ 1,120,627 | \$ 10,056,579 |
| 22 Smart Energy in Offices | - | - | - | \$ - | \$ - | 11.5% | \$ - | \$ - |
| 23 Total for Non-Residential Conservation Programs | 38,859 | 38,362 | 219,916,383 | \$ 127,925,053 | \$ 40,469,592 | | \$ 10,057,378 | \$ 50,526,970 |
| | | | | | | | | NC Non-Residential Peak Demand Allocation Factor |
| | | | | | | | | 74.3563771% |
| | | | | | | | | 52.999930% |
| | | | | | | | | (E10+E26) *F26 *G26 |
| | | | | | | | | \$ 16,079,915 |
| 24 EnergyWise for Business | 11,564 | 232 | 1,436,361 | \$ 1,964,689 | \$ 2,463,194 | 11.5% | \$ (57,328) | \$ 2,405,866 |
| 25 PowerShare® | 335,086 | 311,630 | - | \$ 42,254,098 | \$ 13,583,012 | 11.5% | \$ 3,297,071 | \$ 16,880,983 |
| 26 Total for Non-Residential DSM Programs | 346,651 | 311,862 | 1,436,361 | \$ 44,218,787 | \$ 16,047,106 | | \$ 3,239,743 | \$ 19,286,849 |
| 27 Total Non Residential | 385,509 | 350,224 | 221,352,744 | \$ 172,143,840 | \$ 56,516,699 | | \$ 13,297,121 | \$ 69,813,820 |
| 28 Total All Programs | 947,250 | 442,326 | 636,941,127 | \$ 292,157,811 | \$ 109,023,491 | | \$ 21,426,354 | \$ 130,449,845 |
| | | | | \$ - | \$ - | | \$ - | \$ - |
| | | | | | | | | \$ 96,251,012 |
| | | | | | | | | \$ - |

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas
Evans Exhibit 1
Vintage 2023 Estimate - January 1, 2023 to December 31, 2023
Docket Number E-7, Sub 1265
Load Impacts and Estimated Revenue Requirements by Program

| | A | B | C | D | E | F | G | H | I | J | | | |
|---|---|---|----------------------------------|--------------------------------|----------------|-------------------|--|--------------------------------|-------------------------|------------|---------------|-------------------------|---------------------------|
| | | | | | | | =A*C*D | =A*C*D | | | | | |
| Residential Programs | System kW Reduction - Summer Peak | System kW Reduction - Winter Peak | System Energy Reduction (kWh) | System NPV of Avoided Costs | Total Cost | Shared Savings % | NC Retail kWh Sales Allocation Factor | NC Allocation Factor (2) | NC Allocated Total Cost | NC PRI | NC PPI | NC PPI Cap Reduction | NC Revenue Requirement |
| EE Programs | | | | | | | | | | | | | |
| 1 Energy Efficiency Education | (2,299) | 76 | 13,527,549 | \$ 2,757,352 | \$ 2,234,205 | 10.6% | 73.5233682% | | \$ 1,642,662 | | \$ 40,771 | | \$ 1,683,434 |
| 2 Energy Efficient Appliances and Devices | 8,508 | 8,106 | 54,068,275 | \$ 32,335,837 | \$ 12,770,451 | 10.6% | 73.5233682% | | \$ 9,389,265 | | \$ 1,524,824 | | \$ 10,914,089 |
| 3 Residential - Smart Saver Energy Efficiency Program | 2,035 | 2,197 | 7,523,873 | \$ 8,786,958 | \$ 7,424,637 | 10.6% | 73.5233682% | | \$ 5,458,843 | | \$ 106,172 | | \$ 5,565,016 |
| 4 Low Income Energy Efficiency and Weatherization Assistance | 2,044 | 1,725 | 9,120,903 | \$ 6,733,294 | \$ 8,826,241 | 10.6% | 73.5233682% | | \$ 6,489,349 | \$ 524,758 | | | \$ 7,014,107 |
| 5 Multi-Family Energy Efficiency | 2,404 | 3,258 | 18,590,827 | \$ 11,077,783 | \$ 3,267,171 | 10.6% | 73.5233682% | | \$ 2,402,134 | | \$ 608,718 | | \$ 3,010,852 |
| 6 Residential Energy Assessments | 1,769 | 1,257 | 14,843,876 | \$ 8,325,803 | \$ 5,627,652 | 10.6% | 73.5233682% | | \$ 4,137,639 | | \$ 210,280 | | \$ 4,347,919 |
| 7 Residential New Construction | 4,351 | 4,398 | 14,899,275 | \$ 22,757,696 | \$ 11,506,518 | 10.6% | 73.5233682% | | \$ 8,459,979 | | \$ 876,858 | | \$ 9,336,837 |
| 8 Total for Residential Conservation Programs | 18,811 | 21,017 | 132,574,578 | \$ 92,774,722 | \$ 51,656,874 | | | | \$ 37,979,874 | \$ 524,758 | \$ 3,367,623 | | \$ 41,872,255 |
| 9 My Home Energy Report | 93,036 | 81,112 | 335,107,189 | \$ 25,502,532 | \$ 7,527,382 | 10.6% | 73.5233682% | | \$ 5,534,384 | | \$ 1,400,889 | | \$ 6,935,274 |
| 10 Total Residential Conservation and Behavioral Programs | 111,847 | 102,129 | 467,681,767 | \$ 118,277,254 | \$ 59,184,255 | | NC Residential Peak Demand Allocation Factor | | \$ 43,514,258 | \$ 524,758 | \$ 4,768,513 | \$ 2,451,345 | \$ 51,258,873 |
| 11 Power Manager® | 481,410 | 37,481 | - | \$ 83,384,154 | \$ 19,895,473 | 10.6% | 74.3563771% | 47.0% | \$ 14,793,553 | | \$ 5,004,036 | \$ (2,119,293) | \$ 14,530,620 |
| 12 Total Residential | 593,257 | 139,610 | 467,681,767 | \$ 201,661,408 | \$ 79,079,729 | | | | \$ 58,307,811 | \$ 524,758 | \$ 9,772,548 | \$ 332,052 | \$ 65,789,493 |
| Non-Residential Programs | System kW Reduction - Summer Peak | System kW Reduction - Winter Peak | System Energy Reduction (kWh) | System NPV of Avoided Costs | Total Cost | Shared Savings % | NC Retail kWh Sales Allocation Factor | | NC Allocated Total Cost | NC PRI | NC PPI | NC PPI Cap Reduction | NC Revenue Requirement |
| EE Programs | | | | | | | | | | | | | |
| 13 Non Residential Energy Efficient ITEE | - | - | 15,307 | \$ 2,525 | \$ 6,941 | 10.6% | 73.5233682% | | \$ 5,104 | | \$ (344) | | \$ 4,759 |
| 14 Non Residential Smart Saver Custom | 4,590 | 4,590 | 32,169,842 | \$ 20,103,301 | \$ 10,349,514 | 10.6% | 73.5233682% | | \$ 7,609,311 | | \$ 760,159 | | \$ 8,369,470 |
| 15 Non Residential Smart Saver Custom Technical Assessments | 316 | 316 | 2,763,999 | \$ 1,566,844 | \$ 740,439 | 10.6% | 73.5233682% | | \$ 544,395 | | \$ 64,406 | | \$ 608,801 |
| 16 Non Residential Smart Saver Energy Efficient Food Service Products | 155 | 146 | 1,865,413 | \$ 832,691 | \$ 303,893 | 10.6% | 73.5233682% | | \$ 223,432 | | \$ 41,212 | | \$ 264,644 |
| 17 Non Residential Smart Saver Energy Efficient HVAC Products | 5,000 | 4,992 | 27,110,980 | \$ 20,024,436 | \$ 5,805,515 | 10.6% | 73.5233682% | | \$ 4,268,410 | | \$ 1,108,148 | | \$ 5,376,558 |
| 18 Non Residential Smart Saver Energy Efficient Lighting Products | 31,925 | 31,332 | 175,815,265 | \$ 127,358,689 | \$ 29,716,420 | 10.6% | 73.5233682% | | \$ 21,848,513 | | \$ 7,609,728 | | \$ 29,458,241 |
| 19 Non Residential Smart Saver Energy Efficient Process Equipment Prod | 259 | 262 | 1,737,823 | \$ 1,007,474 | \$ 373,943 | 10.6% | 73.5233682% | | \$ 274,936 | | \$ 49,374 | | \$ 324,310 |
| 20 Non Residential Smart Saver Energy Efficient Pumps and Drives Prod. | 301 | 307 | 2,154,687 | \$ 1,081,241 | \$ 434,644 | 10.6% | 73.5233682% | | \$ 319,565 | | \$ 50,392 | | \$ 369,957 |
| 21 Smart Saver(R) Non Residential Performance Incentive Program | 1,457 | 1,457 | 12,764,777 | \$ 6,788,212 | \$ 1,586,660 | 10.6% | 73.5233682% | | \$ 1,166,566 | | \$ 405,382 | | \$ 1,571,948 |
| 22 Small Business Energy Saver | 11,706 | 11,226 | 61,580,154 | \$ 39,702,935 | \$ 13,027,318 | 10.6% | 73.5233682% | | \$ 9,578,123 | | \$ 2,078,958 | | \$ 11,657,081 |
| 23 Smart Energy in Offices | - | - | - | \$ - | \$ - | 10.6% | 73.5233682% | | \$ - | | \$ - | | \$ - |
| 24 Total for Non-Residential Conservation Programs | 55,710 | 54,629 | 317,978,247 | \$ 218,468,348 | \$ 62,345,286 | | | | \$ 45,838,354 | \$ - | \$ 12,167,415 | \$ (3,228,936) | \$ 54,776,833 |
| 24 EnergyWise for Business | 12,222 | 2,677 | 756,809 | \$ 2,420,180 | \$ 1,804,572 | 10.6% | NC Non-Residential Peak Demand Allocation Factor | | \$ 1,341,814 | | \$ 48,521 | | \$ 1,563,025 |
| 25 PowerShare® | 330,914 | 307,750 | - | \$ 56,852,292 | \$ 13,093,567 | 10.6% | 74.3563771% | | \$ 9,735,902 | | \$ 3,448,965 | | \$ 14,822,522 |
| 26 Total for Non-Residential DSM Programs | 343,136 | 310,427 | 756,809 | \$ 59,272,473 | \$ 14,898,138 | | 74.3563771% | 53.0% | \$ 11,077,716 | \$ - | \$ 3,497,486 | \$ (1,337,331) | \$ 16,385,547 |
| 27 Total Non Residential | 398,846 | 365,056 | 318,735,056 | \$ 277,740,820 | \$ 77,243,425 | | | | \$ 56,916,070 | \$ - | \$ 15,664,901 | \$ (4,566,267) | \$ 71,162,380 |
| 28 Total All Programs | 992,103 | 504,666 | 786,416,822 | \$ 479,402,228 | \$ 156,323,153 | | | | \$ 115,223,881 | \$ 524,758 | \$ 25,437,449 | \$ (4,234,215) | \$ 136,951,873 |
| (1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages | | | | | | | | | | | | | |
| (2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak | | | | | | | | | | | | | |
| | | | | total Costs | \$ 156,323,153 | total PPI | \$ 35,181,963 | | | | | | |
| | | | | Low Income | (8,826,241) | Low Income | (713,729) | | | | | | |
| | | | | | \$ 147,496,913 | | \$ 34,468,234 | | | | | | |
| | | | | | | PPI to Cost Ratio | 23.37% | | | | | | |

Duke Energy Carolinas, LLC
For the Period January 1, 2018 - December 31, 2023
Docket Number E-7 Sub 1265
North Carolina Net Lost Revenue Estimates for Vintages 2018 - 2023

| Vintage 2018 | | | | | | | | 0 |
|--------------|---|---------------|---------------|--------------|------|------|------|---------------|
| Line | Residential | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| 1 | Energy Efficiency Education | \$ 128,311 | \$ 265,267 | \$ 172,311 | \$ - | | | \$ 565,889 |
| 2 | Energy Efficient Appliances and Devices | 4,282,358 | 9,200,784 | 5,975,763 | - | | | 19,458,905 |
| 3 | HVAC Energy Efficiency | 161,443 | 324,295 | 210,669 | - | | | 696,407 |
| 4 | Low Income Energy Efficiency and Weatherization Assistance | 154,376 | 340,042 | 220,844 | - | | | 715,262 |
| 5 | Multi-Family Energy Efficiency | 493,320 | 1,087,466 | 707,931 | - | | | 2,288,716 |
| 6 | My Home Energy Report | 15,751,701 | - | - | - | | | 15,751,701 |
| 7 | Residential Energy Assessments | 204,097 | 359,848 | 233,732 | - | | | 797,677 |
| 8 | Total Lost Revenues | 21,175,605 | 11,577,702 | 7,521,250 | - | - | - | 40,274,557 |
| 9 | Found Residential Revenues * | - | - | - | - | - | - | - |
| 10 | Net Lost Residential Revenues | \$ 21,175,605 | \$ 11,577,702 | \$ 7,521,250 | \$ - | \$ - | \$ - | \$ 40,274,557 |
| | | | | | | | | |
| | Non-Residential | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| 11 | EnergyWise for Business | \$ 66,282 | \$ 120,440 | \$ 78,851 | \$ - | | | \$ 265,573 |
| 12 | Non Residential Energy Efficient ITEE | 185 | 876 | 573 | - | | | 1,634 |
| 13 | Non Residential Smart Saver Custom | 462,774 | 773,838 | 502,673 | - | | | 1,739,285 |
| 14 | Non Residential Smart Saver Custom Technical Assessments | 212 | 866 | 564 | - | | | 1,642 |
| 15 | Non Residential Smart Saver Energy Efficient Food Service Products | 14,176 | 22,681 | 14,685 | - | | | 51,543 |
| 16 | Non Residential Smart Saver Energy Efficient HVAC Products | 50,245 | 116,425 | 75,664 | - | | | 242,334 |
| 17 | Non Residential Smart Saver Energy Efficient Lighting Products | 4,088,002 | 6,697,444 | 4,357,995 | - | | | 15,143,441 |
| 18 | Non Residential Smart Saver Energy Efficient Process Equipment Products | 6,501 | 10,497 | 6,820 | - | | | 23,818 |
| 19 | Non Residential Smart Saver Energy Efficient Pumps and Drives Products | 66,649 | 87,658 | 56,898 | - | | | 211,206 |
| 20 | Small Business Energy Saver | 1,776,069 | 3,461,673 | 2,256,564 | - | | | 7,494,306 |
| 21 | Smart Saver(R) Non Residential Performance Incentive Program | 20,243 | 84,754 | 54,723 | - | | | 159,720 |
| 22 | Smart Energy in Offices | 39,733 | 3,847 | - | - | | | 43,580 |
| 23 | Total Lost Revenues | 6,591,073 | 11,381,000 | 7,406,010 | - | - | - | 25,378,082 |
| 24 | Found Non-Residential Revenues * | - | - | - | - | - | - | - |
| 25 | Net Lost Non-Residential Revenues | \$ 6,591,073 | \$ 11,381,000 | \$ 7,406,010 | \$ - | \$ - | \$ - | \$ 25,378,082 |

* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

| Vintage 2019 | | | | | | | | | |
|-----------------|--|------|---------------|--------------|--------------|--------------|------|---------------|--|
| Line | Residential | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total | |
| 26 | Energy Efficiency Education | | \$ 148,216 | \$ 254,224 | \$ 105,637 | \$ 86,483 | | \$ 594,560 | |
| 27 | Energy Efficient Appliances and Devices | | 4,883,104 | 6,752,166 | 2,641,017 | 1,743,019 | | 16,019,306 | |
| 28 | HVAC Energy Efficiency | | 192,394 | 296,145 | 135,559 | 89,189 | | 713,288 | |
| 29 | Low Income Energy Efficiency and Weatherization Assistance | | 211,667 | 296,296 | 120,408 | 82,532 | | 710,903 | |
| 30 | Multi-Family Energy Efficiency | | 600,390 | 796,103 | 301,062 | 207,294 | | 1,904,850 | |
| 31 | My Home Energy Report | | 16,556,381 | - | - | - | | 16,556,381 | |
| 32 | Residential Energy Assessments | | 195,756 | 270,434 | 106,756 | 72,468 | | 645,414 | |
| 33 | Total Lost Revenues | | 22,787,908 | 8,665,368 | 3,410,439 | 2,280,986 | - | 37,144,701 | |
| 34 | Found Residential Revenues * | | - | - | - | - | | - | |
| 35 | Net Lost Residential Revenues | | \$ 22,787,908 | \$ 8,665,368 | \$ 3,410,439 | \$ 2,280,986 | \$ - | \$ 37,144,701 | |
| | | | | | | | | | |
| Non-Residential | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total | |
| 36 | EnergyWise for Business | | \$ 113,643 | \$ 187,710 | \$ 84,670 | \$ 56,057 | | \$ 442,081 | |
| 37 | Non Residential Energy Efficientc ITTEE | | 334 | 441 | 140 | 109 | | 1,023 | |
| 38 | Non Residential Smart Saver Custom | | 872,885 | 1,464,105 | 681,384 | 462,023 | | 3,480,396 | |
| 39 | Non Residential Smart Saver Custom Technical Assessments | | 83,809 | 57,550 | 1,829 | 1,690 | | 144,878 | |
| 40 | Non Residential Smart Saver Energy Efficientc Food Service Products | | 13,606 | 19,258 | 7,918 | 5,324 | | 46,107 | |
| 41 | Non Residential Smart Saver Energy Efficientc HVAC Products | | 177,008 | 322,139 | 156,528 | 110,774 | | 766,450 | |
| 42 | Non Residential Smart Saver Energy Efficientc Lighting Products | | 3,673,309 | 4,791,594 | 1,762,560 | 1,151,903 | | 11,379,366 | |
| 43 | Non Residential Smart Saver Energy Efficientc Process Equipment Products | | 20,702 | 19,379 | 3,275 | 1,996 | | 45,352 | |
| 44 | Non Residential Smart Saver Energy Efficientc Pumps and Drives Products | | 28,698 | 43,328 | 19,663 | 13,062 | | 104,751 | |
| 45 | Small Business Energy Saver | | 1,333,593 | 1,740,842 | 620,136 | 421,980 | | 4,116,552 | |
| 46 | Smart Saver(R) Non Residential Performance Incentive Program | | 24,374 | 106,552 | 86,737 | 77,081 | | 294,744 | |
| 47 | Total Lost Revenues | | 6,341,962 | 8,752,898 | 3,424,841 | 2,301,999 | - | 20,821,700 | |
| 48 | Found Non-Residential Revenues * | | - | - | - | - | | - | |
| 49 | Net Lost Non-Residential Revenues | | \$ 6,341,962 | \$ 8,752,898 | \$ 3,424,841 | \$ 2,301,999 | \$ - | \$ 20,821,700 | |

* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

| Vintage 2020 | | | | | | | | | |
|--------------|--|------|------|---------------|--------------|--------------|--------------|---------------|--|
| Line | Residential | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total | |
| 50 | Energy Efficiency Education | | | \$ 87,646 | \$ 209,855 | \$ 211,157 | \$ 136,097 | \$ 644,755 | |
| 51 | Energy Efficient Appliances and Devices | | | 2,918,372 | 4,427,019 | 4,459,740 | 2,004,594 | 13,809,724 | |
| 52 | HVAC Energy Efficiency | | | 192,701 | 372,814 | 375,311 | 203,207 | 1,144,033 | |
| 53 | Low Income Energy Efficiency and Weatherization Assistance | | | 62,151 | 68,772 | 69,291 | 22,399 | 222,613 | |
| 54 | Multi-Family Energy Efficiency | | | 159,305 | 118,078 | 118,046 | 7,513 | 402,941 | |
| 55 | My Home Energy Report | | | 17,075,171 | - | - | - | 17,075,171 | |
| 56 | Residential Energy Assessments | | | 158,872 | 330,249 | 332,622 | 194,466 | 1,016,208 | |
| 57 | Total Lost Revenues | | - | 20,654,218 | 5,526,785 | 5,566,166 | 2,568,275 | 34,315,444 | |
| 58 | Found Residential Revenues * | | | - | - | - | - | - | |
| 59 | Net Lost Residential Revenues | | \$ - | \$ 20,654,218 | \$ 5,526,785 | \$ 5,566,166 | \$ 2,568,275 | \$ 34,315,444 | |

| Non-Residential | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total | |
|-----------------|---|------|------|--------------|--------------|--------------|--------------|---------------|--|
| 60 | EnergyWise for Business | | | \$ 76,498 | \$ 111,934 | \$ 113,213 | \$ 54,549 | \$ 356,195 | |
| 61 | Non Residential Energy Efficient ITEE | | | 172 | 398 | 402 | 272 | 1,244 | |
| 62 | Non Residential Smart Saver Custom | | | 328,409 | 735,651 | 743,178 | 454,548 | 2,261,786 | |
| 63 | Non Residential Smart Saver Custom Technical Assessments | | | 18,501 | 21,576 | 22,086 | 7,362 | 69,526 | |
| 64 | Non Residential Smart Saver Energy Efficient Food Service Products | | | 8,849 | 16,420 | 16,683 | 8,292 | 50,243 | |
| 65 | Non Residential Smart Saver Energy Efficient HVAC Products | | | 139,598 | 418,157 | 422,374 | 293,356 | 1,273,485 | |
| 66 | Non Residential Smart Saver Energy Efficient Lighting Products | | | 2,420,220 | 4,196,465 | 4,238,057 | 2,208,469 | 13,063,211 | |
| 67 | Non Residential Smart Saver Energy Efficient Process Equipment Products | | | 30,248 | 30,693 | 30,909 | 1,599 | 93,449 | |
| 68 | Non Residential Smart Saver Energy Efficient Pumps and Drives Products | | | 37,562 | 45,568 | 46,026 | 10,977 | 140,132 | |
| 69 | Small Business Energy Saver | | | 796,192 | 1,418,351 | 1,433,061 | 763,151 | 4,410,755 | |
| 70 | Smart Saver(R) Non Residential Performance Incentive Program | | | 90,607 | 131,908 | 135,520 | 43,385 | 401,420 | |
| 71 | Total Lost Revenues | | - | 3,946,856 | 7,127,120 | 7,201,507 | 3,845,961 | 22,121,445 | |
| 72 | Found Non-Residential Revenues * | | | - | - | - | - | - | |
| 73 | Net Lost Non-Residential Revenues | | \$ - | \$ 3,946,856 | \$ 7,127,120 | \$ 7,201,507 | \$ 3,845,961 | \$ 22,121,445 | |

* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Evans Exhibit 2, page 4

| Vintage 2021 | | | | | | | | | | | | | | |
|-----------------|---|------|------|------|------------|-----------|-----------|------------|----|------------|----|------------|------------|------------|
| Line | Residential | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total | | | | | | |
| 74 | Energy Efficiency Education | | | | 200,130 | 370,966 | 370,966 | \$ | | 942,061 | | | | |
| 75 | Energy Efficient Appliances and Devices | | | | 1,442,046 | 2,511,364 | 2,511,364 | \$ | | 6,464,774 | | | | |
| 76 | Residential – Smart Saver Energy Efficiency Program | | | | 252,810 | 462,820 | 462,820 | \$ | | 1,178,449 | | | | |
| 77 | Low Income Energy Efficiency and Weatherization Assistance | | | | 61,632 | 142,429 | 142,429 | \$ | | 346,491 | | | | |
| 78 | Multi-Family Energy Efficiency | | | | 28,957 | 127,637 | 127,637 | \$ | | 284,232 | | | | |
| 79 | My Home Energy Report | | | | 17,258,649 | - | - | \$ | | 17,258,649 | | | | |
| 80 | Residential Energy Assessments | | | | 160,310 | 343,787 | 343,787 | \$ | | 847,885 | | | | |
| 81 | Total Lost Revenues | | - | - | 19,404,534 | 3,959,003 | 3,959,003 | | | 27,322,540 | | | | |
| 82 | Found Residential Revenues * | | | - | - | - | - | | | - | | | | |
| 83 | Net Lost Residential Revenues | | \$ | - | \$ | - | \$ | 19,404,534 | \$ | 3,959,003 | \$ | 3,959,003 | \$ | 27,322,540 |
| | | | | | | | | | | | | | | |
| Non-Residential | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total | | | | | | |
| 84 | EnergyWise for Business | | | | \$ | 54,555 | \$ | 100,662 | \$ | 100,662 | \$ | | 255,878 | |
| 85 | Non Residential Energy Efficient ITEE | | | | | 108 | | 149 | | 149 | \$ | | 406 | |
| 86 | Non Residential Smart Saver Custom | | | | | 554,154 | | 1,297,497 | | 1,297,497 | \$ | | 3,149,148 | |
| 87 | Non Residential Smart Saver Energy Efficient Food Service Products | | | | | 17,774 | | 45,342 | | 45,342 | \$ | | 108,457 | |
| 88 | Non Residential Smart Saver Energy Efficient HVAC Products | | | | | 614,754 | | 1,040,195 | | 1,040,195 | \$ | | 2,695,143 | |
| 89 | Non Residential Smart Saver Energy Efficient Lighting Products | | | | | 2,825,245 | | 5,413,818 | | 5,413,818 | \$ | | 13,652,882 | |
| 90 | Non Residential Smart Saver Energy Efficient Process Equipment Products | | | | | 9,090 | | 35,234 | | 35,234 | \$ | | 79,558 | |
| 91 | Non Residential Smart Saver Energy Efficient Pumps and Drives Products | | | | | 22,371 | | 57,088 | | 57,088 | \$ | | 136,546 | |
| 92 | Small Business Energy Saver | | | | | 898,833 | | 1,927,206 | | 1,927,206 | \$ | | 4,753,244 | |
| 93 | Smart Saver(R) Non Residential Performance Incentive Program | | | | | 35,712 | | 85,850 | | 85,850 | \$ | | 207,412 | |
| 94 | Total Lost Revenues | | - | - | | 5,032,594 | | 10,003,040 | | 10,003,040 | | | 25,038,674 | |
| 95 | Found Non-Residential Revenues * | | | - | - | - | | - | | - | | | - | |
| 96 | Net Lost Non-Residential Revenues | | \$ | - | \$ | - | \$ | 5,032,594 | \$ | 10,003,040 | \$ | 10,003,040 | \$ | 25,038,674 |

* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

| Line | Vintage 2022 | | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|------|--|--|------|------|------|------|------|---------------|---------------|---------------|
| | Residential | | | | | | | | | |
| 97 | Energy Efficiency Education | | | | | | | 212,630 | 394,983 | \$ 607,613 |
| 98 | Energy Efficient Appliances and Devices | | | | | | | 2,106,950 | 3,988,025 | \$ 6,094,974 |
| 99 | Residential – Smart Saver Energy Efficiency Program | | | | | | | 145,714 | 269,047 | \$ 414,761 |
| 100 | Low Income Energy Efficiency and Weatherization Assistance | | | | | | | 240,306 | 449,666 | \$ 689,973 |
| 101 | Multi-Family Energy Efficiency | | | | | | | 507,144 | 936,267 | \$ 1,443,411 |
| 102 | My Home Energy Report | | | | | | | 17,381,990 | - | \$ 17,381,990 |
| 103 | Residential Energy Assessments | | | | | | | 431,676 | 753,469 | \$ 1,185,144 |
| 104 | Total Lost Revenues | | - | - | - | - | - | 21,026,409 | 6,791,458 | \$ 27,817,867 |
| 105 | Found Residential Revenues * | | | | | | | - | | \$ - |
| 106 | Net Lost Residential Revenues | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 21,026,409 | \$ 6,791,458 | \$ 27,817,867 |
| | | | | | | | | | | |
| | Non-Residential | | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| 107 | Non Residential Energy Efficientc ITEE | | | | | | | \$ 2,132 | \$ 3,935 | \$ 6,067 |
| 108 | Non Residential Smart Saver Custom | | | | | | | 939,502 | 1,734,465 | \$ 2,673,966 |
| 109 | Non Residential Smart Saver Custom Technical Assessments | | | | | | | 101,037 | 186,529 | \$ 287,566 |
| 110 | Non Residential Smart Saver Energy Efficientc Food Service Products | | | | | | | 36,317 | 67,047 | \$ 103,364 |
| 111 | Non Residential Smart Saver Energy Efficientc HVAC Products | | | | | | | 506,985 | 935,973 | \$ 1,442,958 |
| 112 | Non Residential Smart Saver Energy Efficientc Lighting Products | | | | | | | 4,189,330 | 7,734,148 | \$ 11,923,479 |
| 113 | Non Residential Smart Saver Energy Efficientc Process Equipment Products | | | | | | | 24,914 | 45,996 | \$ 70,910 |
| 114 | Non Residential Smart Saver Energy Efficientc Pumps and Drives Products | | | | | | | 58,634 | 108,248 | \$ 166,882 |
| 115 | Small Business Energy Saver | | | | | | | 2,183,673 | 4,060,068 | \$ 6,243,741 |
| 116 | Smart Saver(R) Non Residential Performance Incentive Program | | | | | | | 138,704 | 256,069 | \$ 394,773 |
| 117 | Total Lost Revenues | | - | - | - | - | - | 8,181,228 | 15,132,477 | \$ 23,313,705 |
| 118 | Found Non-Residential Revenues * | | - | - | - | - | - | - | | \$ - |
| 119 | Net Lost Non-Residential Revenues | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 8,181,228 | \$ 15,132,477 | \$ 23,313,705 |

* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

| Vintage 2023 | | | | | | | | | | |
|--------------|--|------|------|------|------|------|------|------------|-------|------------|
| Line | Residential | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total | |
| 120 | Energy Efficiency Education | | | | | | | 367,192 | \$ | 367,192 |
| 121 | Energy Efficient Appliances and Devices | | | | | | | 1,468,035 | \$ | 1,468,035 |
| 122 | Residential – Smart Saver Energy Efficiency Program | | | | | | | 202,306 | \$ | 202,306 |
| 123 | Low Income Energy Efficiency and Weatherization Assistance | | | | | | | 228,933 | \$ | 228,933 |
| 124 | Multi-Family Energy Efficiency | | | | | | | 513,283 | \$ | 513,283 |
| 125 | My Home Energy Report | | | | | | | 17,467,498 | \$ | 17,467,498 |
| 126 | Residential Energy Assessments | | | | | | | 436,907 | \$ | 436,907 |
| 127 | Residential New Construction | | | | | | | 462,348 | \$ | 462,348 |
| 128 | Total Lost Revenues | - | - | - | - | - | - | 21,146,502 | | 21,146,502 |
| 129 | Found Residential Revenues * | | | | | | | | \$ | - |
| 130 | Net Lost Residential Revenues | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | 21,146,502 | \$ | 21,146,502 |

| Non-Residential | | | | | | | | | | |
|-----------------|--|------|------|------|------|------|------|-----------|-------|-----------|
| | | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total | |
| 131 | EnergyWise for Business | | | | | | | \$ 17,255 | \$ | 17,255 |
| 132 | Non Residential Energy Efficientc ITTEE | | | | | | | 329 | \$ | 329 |
| 133 | Non Residential Smart Saver Custom | | | | | | | 616,396 | \$ | 616,396 |
| 134 | Non Residential Smart Saver Custom Technical Assessments | | | | | | | 52,857 | \$ | 52,857 |
| 135 | Non Residential Smart Saver Energy Efficientc Food Service Products | | | | | | | 41,666 | \$ | 41,666 |
| 136 | Non Residential Smart Saver Energy Efficientc HVAC Products | | | | | | | 950,071 | \$ | 950,071 |
| 137 | Non Residential Smart Saver Energy Efficientc Lighting Products | | | | | | | 4,341,628 | \$ | 4,341,628 |
| 138 | Non Residential Smart Saver Energy Efficientc Process Equipment Products | | | | | | | 39,529 | \$ | 39,529 |
| 139 | Non Residential Smart Saver Energy Efficientc Pumps and Drives Products | | | | | | | 50,829 | \$ | 50,829 |
| 140 | Small Business Energy Saver | | | | | | | 1,312,351 | \$ | 1,312,351 |
| 141 | Smart Saver(R) Non Residential Performance Incentive Program | | | | | | | 244,585 | \$ | 244,585 |
| 142 | Total Lost Revenues | - | - | - | - | - | - | 7,667,494 | | 7,667,494 |
| 143 | Found Non-Residential Revenues * | - | - | - | - | - | - | | | - |
| 144 | Net Lost Non-Residential Revenues | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | 7,667,494 | \$ | 7,667,494 |

* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Duke Energy Carolinas, LLC
For the Period January 1, 2021 - December 31, 2021
Docket Number E-7 Sub 1265
Actual Program Costs for Vintage Years 2018 , 2019, 2020, 2021

| | Carolinas System - 12 months Ended 12/31/2018 | Carolinas System - 12 months Ended 12/31/2019 | Carolinas System - 12 months Ended 12/31/2020 | Carolinas System - 12 months Ended 12/31/2021 |
|---|---|---|---|---|
| 1 Residential Energy Assessments | 2,836,229 | 3,153,757 | 3,358,880 | 3,326,179 |
| 2 My Home Energy Report | 12,765,286 | 10,558,344 | 12,749,651 | 7,072,233 |
| 3 Energy Efficient Appliances and Devices | 42,687,244 | 40,433,533 | 22,124,101 | 10,824,171 |
| 4 Residential – Smart Saver Energy Efficiency Program | 6,955,146 | 7,402,907 | 7,538,303 | 8,156,036 |
| 5 Appliance Recycle Program | - | - | - | - |
| Income Qualified Energy Efficiency and | | | | |
| 6 Weatherization Assistance | 6,490,735 | 7,344,325 | 2,787,490 | 4,634,161 |
| 7 Multi family Energy Efficiency | 3,604,921 | 3,681,262 | 1,613,839 | 517,454 |
| 8 Energy Efficiency Education | 1,992,260 | 1,644,077 | 1,113,485 | 1,147,501 |
| 9 Nonresidential Smart Saver Custom Energy Assessments | 407,293 | 296,006 | 330,629 | 293,539 |
| 10 Energy Management Information Systems | - | - | - | - |
| 11 Non-Residential Smart Saver Custom | 6,068,902 | 8,873,872 | 5,771,790 | 7,505,201 |
| 12 Non-Residential Smart Saver Performance Incentive | 479,610 | 785,165 | 751,724 | 342,826 |
| 13 Non-Residential Energy Efficient Food Service Products | 235,605 | 339,996 | 533,411 | 203,130 |
| 14 Non-Residential Smart Saver Energy Efficient HVAC Products | 1,620,748 | 2,208,364 | 2,450,713 | 4,899,800 |
| 15 Non-Residential Smart Saver Energy Efficient Lighting Products | 25,872,380 | 20,834,766 | 13,098,851 | 17,924,291 |
| 16 Nonresidential Energy Efficient Pumps and Drives Products | 277,785 | 189,172 | 167,464 | 202,615 |
| 17 Nonresidential Energy Efficient ITEE | 36,875 | 44,335 | 15,179 | 74,699 |
| 18 Nonresidential Energy Efficient Process Equipment Products | 67,509 | 119,843 | 29,681 | 87,540 |
| 19 Smart Energy In Offices | 219,748 | - | - | - |
| 20 Small Business Energy Saver | 15,977,993 | 11,421,399 | 6,933,130 | 8,935,952 |
| 21 Business Energy Report | - | - | - | - |
| 22 Power Manager | 14,423,610 | 13,386,942 | 14,303,277 | 16,829,058 |
| 23 EnergyWise for Business | 3,062,816 | 3,687,462 | 2,941,282 | 2,463,194 |
| 24 Power Share | 12,922,977 | 13,022,816 | 12,082,697 | 13,583,912 |
| 25 | | | | |
| 26 Total Energy Efficiency & Demand Side Progi | \$ 159,005,671 | \$ 149,428,343 | \$ 110,695,578 | \$ 109,023,491 |

| | | | | |
|--|-------------|-------------|-------------|-------------|
| 27 NC Allocation Factor for EE programs | 72.7130507% | 73.0903918% | 73.2212736% | 73.5233682% |
| 28 NC Allocation Factor for DSM programs-Resid | 32.1574721% | 34.1181040% | 33.7163333% | 34.9475492% |
| 29 NC Allocation Factor for DSM programs-Non-I | 41.4712829% | 40.1233224% | 40.4790117% | 39.4088278% |

| | NC Allocated - 12 Months Ended 12/31/2018 | NC Allocated - 12 Months Ended 12/31/2019 | NC Allocated - 12 Months Ended 12/31/2020 | NC Allocated - 12 Months Ended 12/31/2021 |
|---|---|---|---|---|
| 30 Residential Energy Assessments | \$ 2,062,308 | \$ 2,305,093 | \$ 2,459,415 | \$ 2,445,519 |
| 31 My Home Energy Report | \$ 9,282,029 | \$ 7,717,135 | \$ 9,335,457 | \$ 5,199,744 |
| 32 Energy Efficient Appliances and Devices | \$ 31,039,197 | \$ 29,553,027 | \$ 16,199,549 | \$ 7,958,295 |
| 33 Residential – Smart Saver Energy Efficiency Pr | \$ 5,057,299 | \$ 5,410,814 | \$ 5,519,641 | \$ 5,996,592 |
| 34 Appliance Recycle Program | \$ - | \$ - | \$ - | \$ - |
| 35 Income Qualified Energy Efficiency and Weatl | \$ 4,719,611 | \$ 5,367,996 | \$ 2,041,036 | \$ 3,407,192 |
| 36 Multi family Energy Efficiency | \$ 2,621,248 | \$ 2,690,649 | \$ 1,181,674 | \$ 380,449 |
| 37 Energy Efficiency Education | \$ 1,448,633 | \$ 1,201,662 | \$ 815,308 | \$ 843,681 |
| 38 Nonresidential Smart Saver Custom Energy A: | \$ 296,155 | \$ 216,352 | \$ 242,090 | \$ 215,820 |
| 39 Energy Management Information Systems | \$ - | \$ - | \$ - | \$ - |
| 40 Non-Residential Smart Saver Custom | \$ 4,412,884 | \$ 6,485,948 | \$ 4,226,178 | \$ 5,518,076 |
| 41 Non-Residential Smart Saver Performance Inc | \$ 348,739 | \$ 573,880 | \$ 550,422 | \$ 252,057 |
| 42 Non-Residential Energy Efficient Food Service | \$ 171,315 | \$ 248,504 | \$ 390,570 | \$ 149,348 |
| 43 Non-Residential Smart Saver Energy Efficient | \$ 1,178,495 | \$ 1,614,102 | \$ 1,794,444 | \$ 3,602,498 |
| 44 Non-Residential Smart Saver Energy Efficient | \$ 18,812,597 | \$ 15,228,212 | \$ 9,591,146 | \$ 13,178,542 |
| 45 Nonresidential Energy Efficient Pumps and Dr | \$ 201,986 | \$ 138,267 | \$ 122,620 | \$ 148,969 |
| 46 Nonresidential Energy Efficient ITEE | \$ 26,813 | \$ 32,404 | \$ 11,114 | \$ 54,921 |
| 47 Nonresidential Energy Efficient Process Equip | \$ 49,088 | \$ 87,594 | \$ 21,733 | \$ 64,362 |
| 48 Smart Energy In Offices | \$ 159,785 | \$ - | \$ - | \$ - |
| 49 Small Business Energy Saver | \$ 11,618,086 | \$ 8,347,945 | \$ 5,076,526 | \$ 6,570,013 |
| 50 Business Energy Report | \$ - | \$ - | \$ - | \$ - |
| 51 Power Manager | \$ 9,778,895 | \$ 10,268,601 | \$ 9,888,075 | \$ 11,489,414 |
| 52 EnergyWise for Business | \$ 2,416,251 | \$ 2,664,815 | \$ 2,324,090 | \$ 1,988,733 |
| 53 Power Share | \$ 10,194,918 | \$ 9,411,189 | \$ 9,547,293 | \$ 10,967,378 |
| 54 | | | | |
| 55 Total Energy Efficiency & Demand Side Progi | \$ 115,896,335 | \$ 109,564,190 | \$ 81,338,380 | \$ 80,431,604 |

Duke Energy Carolinas, LLC
January 2018 - December 2021 Actuals
January 2022 - December 2023 Estimates
Docket Number E-7, Sub 1265
North Carolina Found Revenues

| | | | | | Estimated KWH | | | Decision Tree Node |
|--|-------------|-------------|--------------|--------------|---------------|--------------|----------------|--------------------|
| | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total | |
| Economic Development | 507,965,880 | 285,918,000 | 330,562,641 | 159,451,000 | - | - | 1,283,897,521 | Box 5 - exclude |
| Plug-in Electric Charging Station Pilot | - | - | - | - | - | - | - | Box 3 - exclude |
| Lighting | | | | | | | | |
| Residential | 62,832 | 48,249 | 33,562 | 37,786 | 37,786 | 37,786 | 258,001 | Box 6 - include |
| Non Residential (Regulated) | 67,443 | 105,681 | 130,447 | 170,265 | 170,265 | 170,265 | 814,366 | Box 6 - include |
| MV to LED Credit - Residential (Regulated) | (150,968) | (113,648) | (50,351) | - | (83,771) | (93,425) | (492,163) | Box 6 - include |
| MV to LED Credit - Non-Residential (Regulated) | (248,852) | (232,984) | (367,126) | (335,262) | (586,397) | (653,974) | (2,424,596) | Box 6 - include |
| Total KWH | 507,696,335 | 285,725,298 | 330,309,173 | 159,323,789 | (462,117) | (539,348) | 1,282,053,130 | |
| Total KWH Included | (269,545) | (192,702) | (253,468) | (127,211) | (462,117) | (539,348) | (1,844,391) | |
| Total KWH Included (net of Free Riders 15%) | (229,113) | (163,797) | (215,448) | (108,129) | (392,800) | (458,446) | (1,567,733) | |
| Annualized Found Revenue - Non Residential | \$ (96,542) | \$ (69,401) | \$ (135,345) | \$ (102,594) | \$ (284,340) | \$ (334,372) | \$ (1,022,593) | |
| Annualized Found Revenue - Residential | \$ (59,309) | \$ (44,621) | \$ (12,066) | \$ 27,460 | \$ (21,417) | \$ (27,568) | \$ (137,521) | |
| | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total | |
| Vintage 2014 - Non Res | | | | | | | - | |
| Vintage 2015 - Non Res | (13,108) | | | | | | (13,108) | |
| Vintage 2016 - Non Res | (30,720) | (10,169) | | | | | (40,889) | |
| Vintage 2017 - Non Res | (47,791) | (47,791) | (21,240) | - | | | (116,823) | |
| Vintage 2018 - Non Res | (51,711) | (96,542) | (56,316) | - | - | | (204,569) | |
| Vintage 2019 - Non Res | | (24,424) | (54,495) | (27,392) | (19,040) | - | (125,351) | |
| Vintage 2020 - Non Res | | | (54,740) | (470,426) | (112,798) | (67,891) | (705,855) | |
| Vintage 2021 - Non Res | | | | (37,627) | (102,594) | (102,594) | (242,814) | |
| Vintage 2022 - Non Res | | | | | (154,017) | (284,340) | (438,357) | |
| Vintage 2023 - Non Res | | | | | | (181,118) | (181,118) | |
| Net Negative Found Revenues to Zero* | 143,330 | 178,925 | 186,791 | 535,445 | 388,450 | 635,942 | 2,068,884 | |
| Subtotal - Non Res | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Vintage 2014 - Res | | | | | | | - | |
| Vintage 2015 - Res | (17,981) | | | | | | (17,981) | |
| Vintage 2016 - Res | (39,657) | - | | | | | (39,657) | |
| Vintage 2017 - Res | (50,953) | (32,706) | (14,824) | - | | | (98,484) | |
| Vintage 2018 - Res | (28,325) | (59,309) | (34,597) | - | - | | (122,230) | |
| Vintage 2019 - Res | | (18,413) | (34,847) | (17,075) | (11,862) | - | (82,197) | |
| Vintage 2020 - Res | | | (3,392) | (10,517) | (10,517) | (7,690) | (32,115) | |
| Vintage 2021 - Res | | | | 18,279 | 27,460 | 27,460 | 73,198 | |
| Vintage 2022 - Res | | | | | (11,601) | (21,417) | (33,018) | |
| Vintage 2023 - Res | | | | | | (14,933) | (14,933) | |
| Net Negative Found Revenues to Zero* | 136,917 | 110,428 | 87,659 | 9,313 | 6,520 | 16,580 | 367,417 | |
| Subtotal - Residential | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Total Found Revenues | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |

* Eliminates the inclusion of total negative found revenues at the Residential and Non-Residential level

Duke Energy Carolinas
System Event Based Demand Response January 1, 2021 - December 31, 2021
Docket Number E-7, Sub 1265

| Date | State | Program Name | Event Trigger | High / Low System Temp | Customers Notified | Load Control Devices or Participating Thermostats | MW Reduction (at Generator) |
|-----------|-----------|----------------------------|-----------------------|------------------------|--------------------|---|-----------------------------|
| 1/11/2021 | NC and SC | EnergyWise Business | M&V Event | 46/29 | 461 | 792 | 2 |
| 1/29/2021 | NC and SC | EnergyWise Business | M&V Event | 46/22 | 461 | 792 | 2 |
| 2/2/2021 | NC and SC | EnergyWise Business | M&V Event | 45/32 | 463 | 797 | 3 |
| 2/4/2021 | NC and SC | EnergyWise Business | M&V Event | 49/20 | 463 | 797 | 3 |
| 3/8/2021 | NC and SC | EnergyWise Business | M&V Event | 64/28 | 472 | 809 | 3 |
| 5/26/2021 | NC and SC | EnergyWise Business | M&V Event | 91/68 | 6,573 | 11,358 | 2 |
| 6/30/2021 | NC and SC | Power Manager - LCD | Full-shed System Test | 90 / 71 | 239,383 | 289,278 | 297 |
| 7/1/2021 | NC and SC | Power Manager - Thermostat | System Test | 89 / 72 | 33,217 | 31,729 | 86 |
| 7/16/2021 | NC and SC | Power Manager - LCD | M&V Event | 91 / 73 | 239,599 | 289,478 | 209 |
| 7/28/2021 | NC and SC | Power Manager - LCD | M&V Event | 92 / 71 | 239,404 | 289,219 | 235 |
| 7/28/2021 | NC and SC | EnergyWise Business | M&V Event | 92 / 71 | 6,575 | 11,364 | 10 |
| 7/30/2021 | NC and SC | Power Manager - Thermostat | M&V Event | 91 / 75 | 30,500 | 34,442 | 32 |
| 7/30/2021 | NC and SC | EnergyWise Business | M&V Event | 91 / 75 | 6,561 | 11,364 | 10 |
| 8/11/2021 | NC and SC | Power Manager - Thermostat | M&V Event | 93 / 72 | 5,000 | 5,335 | 5 |
| 8/11/2021 | NC and SC | Power Manager - LCD | M&V Event | 93 / 72 | 10,000 | 11,922 | 11 |
| 8/12/2021 | NC and SC | Power Manager - Thermostat | M&V Event | 92 / 72 | 28,667 | 27,986 | 32 |
| 8/12/2021 | NC and SC | Power Manager - LCD | M&V Event | 92 / 72 | 5,000 | 5,959 | 5 |
| 8/12/2021 | NC and SC | EnergyWise Business | M&V Event | 92 / 72 | 6,565 | 11,333 | 10 |
| 8/13/2021 | NC and SC | Power Manager - Thermostat | M&V Event | 95 / 71 | 5,000 | 5,483 | 5 |
| 8/13/2021 | NC and SC | Power Manager - LCD | M&V Event | 95 / 71 | 5,000 | 5,963 | 4 |
| 8/23/2021 | NC and SC | Power Manager - Thermostat | M&V Event | 91 / 71 | 28,858 | 24,372 | 32 |
| 8/23/2021 | NC and SC | Power Manager - LCD | M&V Event | 91 / 71 | 5,000 | 5,963 | 6 |
| 8/24/2021 | NC and SC | Power Manager - Thermostat | M&V Event | 93 / 72 | 5,000 | 5,276 | 6 |
| 8/24/2021 | NC and SC | EnergyWise Business | M&V Event | 93 / 72 | 6,555 | 11,333 | 10 |
| 8/27/2021 | NC and SC | Power Manager - LCD | M&V Event | 90 / 72 | 5,000 | 5,959 | 3 |
| 8/30/2021 | NC and SC | Power Manager - Thermostat | M&V Event | 92 / 70 | 5,000 | 5,487 | 5 |
| 8/30/2021 | NC and SC | Power Manager - LCD | M&V Event | 92 / 70 | 10,000 | 11,922 | 8 |
| 9/13/2021 | NC and SC | Power Manager - LCD | M&V Event | 88 / 65 | 5,000 | 5,963 | 3 |

Notes:

- The 'High / Low System Temperature' is the average of the daily high & low temperatures from across the DEC region.
- 'Customers Notified' is the number of participants included in the event; only Power Manager - Thermostat customers are notified of the event.
- 'Load Control Devices' values represent the number of active switches; 'Participating Thermostats' values represent thermostats that participated during the entire event.
- 'MW Reduction' is an estimated number based on observed reduction in system load, or estimates based on the size of the controlled group.

Duke Energy Carolinas, LLC – Executive Summary

A. Description

During the first quarter 2019, Duke Energy Carolinas product managers prepared reports on each program describing the offerings and detailing each program's performance. This Executive Summary describes how the Company performed at an aggregate level during the full year of Vintage 2019 in comparison to as-filed information. Program-specific details are provided in the individual reports.

Program reports include:

| Program | Category | Customer |
|--|----------|-----------------|
| Energy Assessments | EE | Residential |
| Energy Efficient Appliances and Devices | EE | Residential |
| Energy Efficiency Education Programs | EE | Residential |
| Residential – Smart \$aver Energy Efficiency Program (HVAC EE) | EE | Residential |
| Income Qualified Energy Efficiency and Weatherization Assistance | EE | Residential |
| My Home Energy Report | EE | Residential |
| Multi-Family Energy Efficiency | EE | Residential |
| Non-Residential Smart \$aver Prescriptive | EE | Non-residential |
| Non-Residential Smart \$aver Custom | EE | Non-residential |
| Non-Residential Smart \$aver Custom Assessment | EE | Non-residential |
| Non-Residential Smart \$aver Performance Incentive | EE | Non-residential |
| Small Business Energy Saver | EE | Non-residential |
| EnergyWise for Business | EE/DSM | Non-residential |
| Power Manager | DSM | Residential |
| PowerShare | DSM | Non-residential |

Audience

All retail Duke Energy Carolinas customers who have not opted out.

B & C. Impacts, Participants and Expenses

The tables below include actual results for the full year of Vintage 2020 in comparison to as-filed data for Vintage 2020.

The Company includes the number of units achieved and a percentage comparison to the as filed values. The unit of measure varies by measure as a participant, for example, may be a single LED bulb, a kW, a kWh, a household or a square foot. Due to the multiple measures in a given program or programs, units may appear skewed and are not easily comparable.

Carolinas System Summary¹

| <u>\$ in millions, rounded</u> | Vintage 2021 | Vintage 2021 | % of Target |
|--------------------------------|--------------|-----------------------|-------------|
| | As Filed | YTD December 31, 2021 | |
| NPV of Avoided Cost | \$376.4 | \$291.3 | 77% |
| Program Cost | \$143.3 | \$109.0 | 76% |
| MW ² | 1,186.8 | 961.9 | 81% |
| MWH | 760,218.9 | 636,221.3 | 84% |
| Units | 74,821,797 | 50,112,694 | 67% |

1) Values are reflected at the system level.

2) As filed MW are annual maximum peak. Coincident peak is tracked for impacts.

Duke Energy Carolinas, LLC – Executive Summary

Carolinas Demand Response Summary¹

| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|--------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$129.9 | \$101.8 | 78% |
| Program Cost | \$40.2 | \$32.9 | 82% |
| MW² | 1,024.2 | 818.3 | 80% |
| MWH | 2,557.6 | 1,436.4 | 56% |
| Units³ | 967,959 | 773,172 | 80% |

1) Values are reflected at the system level.

2) MW capability derived by taking the average over the PowerShare and PowerManager contract periods.

3) Units included in filing represented kW at meter, rather than number of participants. YTD value reflects average participation for 2021.

Carolinas Energy Efficiency Summary¹

| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|--------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$246.5 | \$189.5 | 77% |
| Program Cost | \$103.2 | \$76.1 | 74% |
| MW² | 162.6 | 143.6 | 88% |
| MWH | 757,661.3 | 634,784.9 | 84% |
| Units | 73,853,838 | 49,339,521 | 67% |

1) Values are reflected at the system level.

2) As filed MW are annual maximum peak. Coincident peak is tracked for impacts.

D. Qualitative Analysis

Energy efficiency impacts have primarily been driven by lighting measures for both residential and non-residential customers. This is a result of a higher take-rate for lighting offerings than originally projected.

Highlights

Energy Efficiency

Customer participation continues to be largely driven by lighting and assessments programs. These measures provide customers with a relatively low-cost efficiency upgrade, with minimal effort, creating a positive initial energy efficiency experience.

Demand Side Management (DSM)

The DSM portfolio is comprised of PowerShare (non-residential), Power Manager (residential), and EnergyWise for Business (non-residential) programs. The impacts and participation were very close to the 2019 as-filed targets.

Issues

A few of the Company's programs filed for program modifications at the close of the year. The Company faces a significant challenge with reductions in avoided costs, making programs and their measures potentially less impactful. As a result of this and other factors, the Company's continued assessment of its portfolio may result in the removal of or change in measures.

Potential Changes

Duke Energy Carolinas, LLC – Executive Summary

Several programs are reviewing their current processes and are considering potential changes to increase customer adoption. Potential changes are discussed in individual program reports.

E. Marketing Strategy

Located in individual reports.

F. Evaluation, Measurement and Verification

Located in individual program reports.

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My Home Energy Report

A. Description

The My Home Energy Report ("MyHER" or the "Program") is a periodic usage report that compares a customer's energy use to similar residences in the same geographical area based upon the age, size and heating source of the home. The report includes recommendations to encourage energy saving behaviors. Customers with email addresses on file receive an electronic version of their reports monthly.

Customers receive reports up to 12 times per year via paper and electronic delivery. (Delivery may be interrupted during the off-peak energy usage months in the fall and spring.) The report delivers energy savings by encouraging customers to alter their energy use. Customer's usage is compared to the average homes (top 50 percent) in their area as well as the efficient homes (top 25 percent). It also suggests energy efficiency improvements, given the usage profile for that home. In addition, the report recommends measure-specific offers, rebates or audit follow-ups from the Company's other programs, based on the customer's energy profile. As of January 1, 2022, over 1.2 million single-family DEC customers and over 164 thousand multi-family DEC customers receive the MyHER report.

The MyHER interactive online portal allows customers to learn more about their energy use and about opportunities to reduce their usage. Customers can set goals, track their progress, and receive more targeted tips. As of January 1, 2022, over 39 thousand single-family customers and over 5 thousand multi-family customers were enrolled on the portal.

Audience

Target customers reside in individually metered, single-family and multi-family residences with active accounts and 13 months of concurrent service from Duke Energy Carolinas, LLC (the "Company"). Single-family residences receive up to 8 printed reports and, if they have an email address on file, 12 electronic reports. Multi-family residences with registered email addresses with the Company receive up to 4 printed reports and 8 electronic reports. Multi-family residences without registered email addresses with the Company receive up to 6 printed reports a year with a strong call to action to provide their email addresses.

B & C. Impacts, Participants and Expenses

My Home Energy Report¹

| <i><u>\$ in millions, rounded</u></i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|---------------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$22.8 | \$21.3 | 93% |
| Program Cost | \$12.9 | \$7.1 | 55% |
| MW ² | 95.0 | 93.4 | 98% |
| MWH ² | 342,161 | 336,292 | 98% |
| Units ³ | 1,408,963 | 1,376,708 | 98% |

1) Values are reflected at the system level.

2) Values represent the annual MW and MWH savings associated with the December 2021 month end participation.

3) At month-end December 2021, single-family participation was 1,212,050, while multifamily participation was 164,658

D. Qualitative Analysis

As customers receive subsequent reports and learn more about their specific energy use and how they compare to their peer group, their engagement increases. The report then provides tools in the form of targeted energy efficiency tips with actionable ideas to become more efficient. Program participants are encouraged to contact the Company with their questions, comments and report corrections. Report corrections continue to generate the largest number of inquiries. Customers wishing to be removed from the Program in 2021 represent 0.03% Program participants.

My Home Energy Report

Highlights

In 2021, the program launched a new MyHER design for the paper and email reports as well as an updated interactive website with new insights for customers. New website capabilities for customers include single sign on (a more seamless way to sign in to the site using Duke Energy credentials), updated profile experience that updates usage disaggregation real time, current week and month daily comparisons of energy usage compared to similar homes, and the ability for customers to see how their monthly energy usage by category compares to other similar homes.

In Q4 2021, the program also launched the first Seasonal HER experience. This winter seasonal HER sent to customers via paper, email, also had a new web page that highlights for customers their heating usage, how it compares to similar homes, and provides a checklist of tips to complete that would reduce heating usage and heat loss in the home.

E. Marketing Strategy

The Program is marketed on the reports themselves by referring customers to the program website for additional information, Frequently Asked Questions ("FAQs") and contact resources. The MyHER Interactive portal is marketed by email campaigns as well as in the printed report.

In 2021, the program continued on-report marketing campaigns and introduced a new Welcome Letter mailed to all customers with their report to further awareness of the interactive portal.

F. Evaluation, Measurement and Verification

A combined DEC/DEP evaluation, covering the period Jan 2020 – Dec 2020, is currently underway with a planned completion date in the fourth quarter of 2021.

Energy Efficient Appliances and Devices

A. Description

The Energy Efficient Appliances and Devices program ("Program") offers a variety of measures to eligible Duke Energy Carolinas, LLC (the "Company") customers to facilitate a reduction in their energy consumption. The Program includes offers for lighting, water measures, smart strips and smart thermostats through the online store, website and points of purchase.

Specialty Lighting

The Duke Energy Savings Store ("Store") is an on-demand ordering platform enabling eligible customers to purchase a variety of energy efficient products for their home. The Store launched on April 26, 2013, and offers a variety of Light Emitting Diodes lamps ("LEDs"), smart thermostats, smart strips, water fixtures, and small appliances. The incentive levels vary by product, and the customer pays the difference. Various promotions are run throughout the year, offering customers reduced prices as well as shipping promotions, ranging from free to a reduced flat rate price.

The maximum number of incented products are listed below with the associated limits (per account)

- LED lighting, 36 per account.
 - LED lighting product offering is comprised of - reflectors, globes, candelabra, 3-way, dimmable bulbs. The incentive levels vary by bulb type
- Smart thermostats, 2 total
- Water measures, 3 total
- Smart Strips, 4 total
- LED fixtures (direct wires, portable, & outdoor photocell), limit 8 total
- Small appliance, dehumidifiers & air purifiers, limit 2 each total

Customers may choose to order additional products without the Company's incentive.

The Store is managed by a third-party vendor, Uplight, Inc. (Uplight). Uplight is responsible for maintaining the Store website, fulfilling all customer purchases, supporting the program call center, and recommending products. The store's landing page provides information about the store, product offerings, highlights promotions, account information and order history. Support features include a toll-free number, email, chat, package tracking and frequently asked questions.

Educational information is available to help customers with their purchase decisions. This information includes videos and documents that speaks to how the customer can reduce their energy usage while maintaining comfortable atmosphere within their home.

Product pages include application photos, product images, product specifications, purchase limits, and program pricing. Customers may place items in their shopping carts to purchase later. Customers can pay for their purchases with a credit card in the check-out process.

Retail Lighting

The Retail Lighting Program's primary objective is the reduction of electric energy consumption and peak demand through increased awareness and adoption of energy-efficient lighting technologies. The program partners with retailers and manufacturers across North and South Carolina to provide price markdowns on customer purchases of efficient lighting. The product mix includes Energy Star-rated standard, reflector, and specialty LEDs and fixtures. Participating retailers include a variety of store types, including Big Box, DIY, and discount stores.

The program promotes customer awareness and the purchase of program-discounted products through a range of marketing and outreach strategies, that may include in-store collateral, bill inserts, direct mail

Energy Efficient Appliances and Devices

and email marketing, mass media advertising, and online advertising. The program also provides training to store staff to enable better customer education at the point of purchase. Ensuring customers are purchasing the right bulb for the application through proper customer education is imperative to obtain high satisfaction with lighting products and subsequent purchases.

Water Measures

The Save Energy and Water Kit Program ("SEWK") launched in 2014. The Program is designed to increase the energy efficiency of residential customers by offering customers energy efficient water fixtures and insulating pipe tape for use within their homes.

The SEWK program is offered through a selective eligibility process, enabling eligible customers to request a kit and have it shipped directly to their homes. Customers owning and living in a single-family home with an electric water heater and who have not received similar measures through another Company-offered energy efficiency program are eligible for the program. Kits are available in two sizes for homes with one or more full bathrooms and contain varying quantities of shower heads, bathroom aerators, a kitchen aerator and insulating pipe tape. Program participants are eligible for one kit shipped free of charge to their homes. Also, customers are able to upgrade the showerhead(s) in the kit from a standard showerhead to either a wide pattern or wand showerhead at low cost.

Customers are pre-screened based on the eligibility requirements. Marketing channels include both a direct mail business reply card ("BRC") and direct email. Customers receiving the BRC may choose to return the BRC, navigate to a redemption website listed on the card, or call a toll-free number to take advantage of the offer. Customers receiving a direct email simply click on a redemption link to redeem the offer online. Upon receiving the order from the customer through one of the methods above, the vendor ships the kit to the customer. Due to the unique eligibility requirements of this program, BRCs and direct email are the only two methods being used to solicit customers for participation.

Audience

Customers who meet the Program eligibility requirements.

B & C. Impacts, Participants and Expenses

| Energy Efficient Appliances and Devices ¹ | | | |
|--|--------------------------|---------------------------------------|----------------|
| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
| NPV of Avoided Cost | \$26.1 | \$25.5 | 98% |
| Program Cost | \$10.6 | \$10.8 | 102% |
| MW | 9.8 | 8.8 | 90% |
| MWH | 56,621.9 | 51,701.2 | 91% |
| Units | 1,563,048 | 2,404,965 | 154% |

1) Values are reflected at the system level.

D. Qualitative Analysis

Specialty Lighting

Highlights

The Online Savings Store provides an ecommerce platform that allows customers to purchase a variety of energy efficient products, including LEDs, smart thermostats, smart strips and more, at any time. In the last half of 2021, the program completed a vendor transition for the ecommerce platform to enhance the customer shopping and check-out experience. The new Online Savings Store launched at the beginning

Energy Efficient Appliances and Devices

of December. During 2021, the program delivered 77,951 bulbs, 11,301 smart thermostats, 682 smart strips, 180 water products, 327 LED fixtures, 212 air purifiers and 161 dehumidifiers to customers.

Issues

Educating and bringing awareness to the variety of products in the Store to eligible customers is the program's primary issue.

Potential Changes

The program continues to explore opportunity to facilitate ease of use shopping online as well as additional product offerings for consideration to enhance energy savings.

Retail Lighting

Highlights

In 2021, the program moved a total of 2,050,774 measures, including 1,669,540 LEDs and 381,234 fixtures into customers' homes.

The DEC Energy Efficiency Program had 9 lighting retail channels actively participating in 2021. While the top three retail channels account for 80% of the program sales, all retail channels are important in that they allow access to the program for a widely diverse and geographically spread population of DEC customers. Locations are selected to ensure that the Program reaches 90% of customers within 30 miles of a participating retail location.

In addition, a key strategy for the program was continuing to increase its presence in Hard-to-Reach stores that have a high propensity of shoppers that would not adopt EE lighting had incentives not been made available to patrons at these locations. These stores include Dollar Tree, Habitat ReStore, Goodwill and Family Dollar. Overall, approximately 64% of program sales came from these types of stores.

The Program operated efficiently with 79% of overall Program costs going directly to customers in the form of incentives. Most of the remaining Program costs (20%) were spent on implementation and administration of the Program. The remaining 1% of costs were spent on marketing and labor.

Issues

Despite continued success in 2021, effects of the COVID-19 pandemic remain on the program's radar. These included:

- Suspension of in-field store visits (training of store staff, proper placement of POP) during the first few weeks of 2021 as cases of COVID-19 remained high. This action limited exposure of field team in stores for not only their safety, but that of store patrons and staff. This suspension was lifted in late Q1.
- Continued suspension of in-store and community events promoting the program and its product offering.

The Program continues to monitor this closely while adhering to Duke Energy Customer Engagement Safety Protocols.

Potential Changes

The Program will continue to evaluate the market and adjust products and incentive levels as necessary, focusing on specialty applications and strategically targeting underserved customers through select channels and events.

Energy Efficient Appliances and Devices

In addition, the program received internal approval to move forward expanding its offering to include incentives on non-lighting measures. These measures include Smart Thermostats, Air Purifiers, Dehumidifiers, and Ceiling Fans. To take advantage of the program offers, store patrons will need to validate that they are a Duke Energy customer by accessing the instant rebate portal on their smart phone or personal computer. If eligible, the customer will receive a barcode to be scanned at checkout to receive the instant rebate.

Duke Energy has selected a vendor to administer the program and is in the process of developing a statement of work. Currently, the program projects to launch in Q2 2022.

Save Energy and Water Kit Program

Highlights

During 2021, the program distributed approximately 263,367 water measures in over 27,000 kits to Duke Energy customers in the Carolinas. The kits delivered 55,626 bathroom aerators, 27,813 kitchen aerators, 40,863 showerheads and 139,065 feet of pipe insulation. The program upgraded the standard showerhead in the kit to the wide showerhead effort to increase installation rates. Of customers that redeemed the offer, 10% chose to upgrade their kit to either a wand showerhead.

Issues

The program continues to review customer satisfaction surveys to identify opportunities for improvement with installation rates and overall customer satisfaction.

Potential Changes

The program transitioned to a new vendor in Q4 of 2021, AM Conservation. The program will utilize BRC's and offering an online platform for customers to request and upgrade the kit showerheads. AM Conservation will provide a new fresh look and improved customer journey which will increase customer participation, installation and satisfaction.

E. Marketing Strategy

Specialty Lighting

Since the launch of the Store, the marketing efforts include the following:

- bill messages
- bill inserts
- email campaigns
- direct mail
- and other digital media channels

Awareness and education will continue to be a focus in collateral messages to eligible customers, as well as highlighting great pricing and other promotional offerings such as free shipping.

Retail Lighting

The program's marketing efforts for 2021 included the following:

- Point of purchase materials at participating retailer locations
- Duke Energy Program website
- General awareness email and direct mail campaigns

Energy Efficient Appliances and Devices

- Cross-promotional opportunities in via internal marketing channels (Other programs, Residential newsletters)

In general, these marketing efforts are designed to create customer awareness of the Program, to educate customers on energy saving opportunities, and to emphasize the convenience of Program participation.

As a result of the COVID-19 pandemic, the program has suspended its normal advertised events at key retailers as well as community outreach events (national night out, cultural events, etc.) until further notice. This decision will be evaluated on a regular basis with activities only resuming when appropriate conditions permit.

Save Energy and Water Kit Program

The overall strategy of the program is to reach residential customers who have not adopted low flow water devices.

Both direct mail marketing in the form of BRCs and direct email are the current marketing channels being used by this program in the Carolinas.

F. Evaluation, Measurement and Verification

Residential Lighting

The evaluation for the DEC/DEP Online Saving/Marketplace Program is currently underway with a completion date planned for the fourth quarter of 2021.

The DEC/DEP Retail Lighting evaluation is tentatively scheduled to commence in first quarter 2022 with planned completion in the third quarter of 2022. This revised timeframe reflects an extension to allow for increased participation in the hard-to-reach retailer channels.

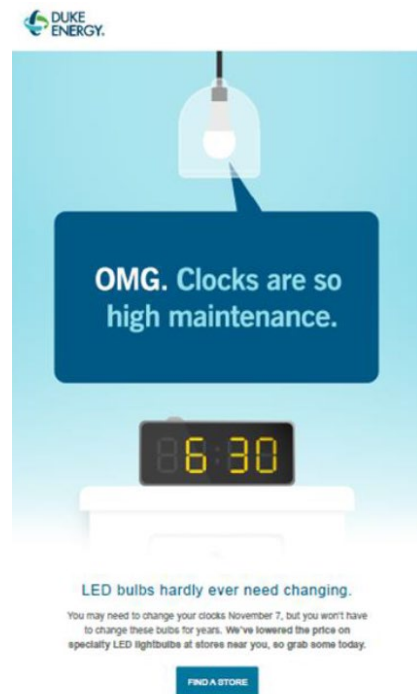
Save Energy & Water

The next evaluation for a combined DEC/DEP evaluation is scheduled to begin activities in mid-2021, with a final report scheduled for mid-2022. As part of this evaluation, the evaluator will also survey non-participants to better understand their decisions to not participate in the program.

G. Appendix

Energy Efficient Appliances and Devices

Retail Lighting General Awareness Emails:



Energy Efficiency Education Program

A. Description

The Energy Efficiency Education Program ("Program") is available to students in grades K-12 enrolled in public and private schools in the Duke Energy Carolinas (the "Company" or "DEC") service territory. The current curriculum administered by The National Theatre for Children ("NTC") provides performances in elementary, middle and high schools.

The Program provides principals and teachers with an innovative curriculum to educate students about energy, resources, how energy and resources are related, ways energy is wasted, and how to be more energy efficient. The centerpiece of the curriculum is a live theatrical production focused on concepts such as energy, renewable fuels and energy efficiency and performed by two professional actors. Teachers receive supportive educational material for classroom and student take-home assignments. The workbooks, assignments and activities meet state curriculum requirements.

School principals are the main point of contact for scheduling their school's performance at their convenience. Two weeks prior to the performance, all materials are delivered to the principal's attention for classroom and student distribution. Materials include school posters, teacher guides, and classroom and family activity books.

Students are encouraged to complete a request form with their families (found in their classroom and family activity book, as well as online) to receive an Energy Efficiency Starter Kit. The kit contains specific energy efficiency measures to reduce home energy consumption. It is available at no cost to eligible Duke Energy customer households at participating schools.

Similar to 2020, many of the aspects of the Energy Efficiency Education program continued to be impacted by the COVID-19 pandemic in 2021. No in-person school performances were permitted for the entire year. As a result, the program continued to offer livestream performances so school and students could still participate. More details are provided below in section D.

Audience

Eligible participants include the Company's residential customers who reside in households served by Duke Energy Carolinas with school-age children enrolled in public and private schools.

B & C. Impacts, Participants and Expenses

| Energy Efficiency Education ¹ | | | |
|--|--------------------------|---------------------------------------|----------------|
| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
| NPV of Avoided Cost | \$3.0 | \$1.5 | 50% |
| Program Cost | \$2.3 | \$1.1 | 50% |
| MW | 1.0 | (1.2) | -120% |
| MWH | 7,951.6 | 7,013.2 | 88% |
| Units | 29,354 | 13,894 | 47% |
| 1) Values are reflected at the system level. | | | |

D. Qualitative Analysis

Highlights

The Company is supporting arts and theatre in schools while providing an important message about energy efficiency for students through an innovative delivery channel. Enhancing the message with a live theatrical production captivates the students' attention and reinforces the classroom curriculum materials provided.

Energy Efficiency Education Program

Starting in the spring semester of the 2019-2020 school year, the COVID-19 pandemic brought on unprecedented challenges to the program with schools temporarily closing and reverting to virtual learning. As a result, live performances ceased on March 13, 2020. This continued to be the case in 2021.

The program continued to offer these educational performances via online livestream for all three levels of schooling beginning in the Fall semester. Given the uncertainty around whether or not a school is remote learning or using a hybrid plan, the program offered time slots to schools to view a live host providing educational information and narrating between four different segments of the theatrical performance that would normally be given in schools by professional acting troupes. In addition, for added flexibility, the program offered a video recording of a livestream performance for schools/classrooms that preferred to share the content when it best fit into their lesson plan, at a later date. This livestream/video recording delivery model continues to be used here in early 2022.

Consistent with past years, each performance had content that was appropriate with its educational level. In the Spring, Elementary schools were able to view livestream performances of "Space Station Conservation"; "The Conservation Crew" was made available to Middle schools and High Schools were able to watch "Your Plant, Your Future". For the Fall 2021 Semester, the aforementioned titles were replaced with "Nikki Neutron's Energy Adventure", "Energy Agents" and "Global Gamble" respectively. Though these titles changed for 2021-2022 school year, the core of the educational content remained the same; as has been the case in previous years. Students and teachers also had access to a Q&A with the host and an e-learning package that includes games, quizzes and lesson plans for the class that reinforce concepts from the show.

Overall, in 2021, a total of 550 schools participated in the program in the Company's DEC service territory, reaching approximately 152,000 students and spurring the distribution of 13,984 kits.

Once an eligible customer submits a completed energy efficiency, the Energy Efficiency Starter Kit is shipped for delivery within two to four weeks.

In order to help encourage student participation, the program vendor, The National Theatre for Children, rewarded teachers \$50 for every 20 Energy Efficient kit requests. Additionally, various rewards for schools and participating families were offered to encourage additional kit requests.

Updates

The Company continues to enhance the Program by the following:

- Introducing new productions each school year to refresh and refocus the materials and scripts to keep participating schools engaged.
- Promoting the program through social media to encourage awareness, recognition and participation.
- Partnering with Duke Energy Account and District Managers to leverage existing relationships in the community to develop positive media stories while encouraging kit sign ups.
- Enhancing the offering by providing educational materials for all student households, but particularly those that have already received the current Energy Efficiency Starter Kit as well as non-Duke Energy customer student households; both of which are ineligible for an EE Starter Kit.
- Inclusion of the Kilowatt Krush mobile gaming application that will allow users to learn about smart energy use and conservation through an engaging arcade of action-packed, energy themed games. Students build and customize virtual houses in the neighborhood of their choice while learning about energy efficiency and safety education.

E. Marketing Strategy

Energy Efficiency Education Program

The National Theatre for Children is responsible for all marketing campaigns and outreach. The marketing channels may include but are not limited to the following:

- Direct mail (letters to school administrators)
- Email
- In-Person
- Program Website
- Events or assemblies
- Printed materials for classrooms
- Social media promotions

These marketing efforts engage students and their families in energy conservation behavior and provide energy saving opportunities through the Energy Efficiency Starter kits.

F. Evaluation, Measurement and Verification

Evaluation work is currently underway for the period covering August 2019 – July 2020. The final DEC/DEP evaluation report is scheduled to be completed in the third quarter of 2021. At this point in the evaluation, the evaluator expects to estimate savings reductions via consumption analyses.

Energy Assessments

A. Description

The Home Energy House Call Program ("Program") is offered under the Energy Assessment Program. Duke Energy Carolinas, LLC (the "Company") partners with several key vendors to administer the Program.

The Program provides a free in-home assessment performed by a Building Performance Institute ("BPI") certified energy specialist and designed to help customers reduce energy usage and save money. The BPI-certified energy specialist completes a 60- to 90-minute walk through assessment of a customer's home and analyzes energy usage to identify energy savings opportunities. The energy specialist discusses behavioral and equipment modifications that can save energy and money with the customer. The customer also receives a customized report that identifies actions the customer can take to increase the home's efficiency. Examples of recommendations might include the following:

- Turning off vampire load equipment when not in use.
- Turning off lights when not in the room.
- Using energy efficient lighting.
- Using a programmable thermostat to better manage heating and cooling usage.
- Replacing older equipment.
- Adding insulation and sealing the home.

In addition to a customized report, customers receive an energy efficiency starter kit with a variety of measures that can be directly installed by the energy specialist. The kit includes measures such as energy efficiency lighting, a low-flow shower head, low flow faucet aerators, outlet/switch gaskets, weather stripping, and an energy saving tips booklet.

Additionally, bath aerators and pipe wrap are also available for free at the time of the assessment. New discounted measures may be purchased and installed during the assessment including LED specialty lighting (i.e. Globes, Candelabra and Recessed), Hand-held Showerhead, Smart Thermostats and a Blower Door test.

Audience

Eligible Program participants are the Company's residential customers that own a single-family residence with at least four months of billing history and central air, electric heat or an electric water heater.

B & C. Impacts, Participants and Expenses

Energy Assessments¹

| <i><u>\$ in millions, rounded</u></i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|---------------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$7.5 | \$3.3 | 43% |
| Program Cost | \$6.1 | \$3.3 | 54% |
| MW | 1.8 | 0.7 | 42% |
| MWH | 14,921.4 | 6,591.0 | 44% |
| Units | 126,576 | 33,369 | 26% |

1) Values are reflected at the system level.

2) Units represent number of kits, and do not include additional LEDs.

Energy Assessments

D. Qualitative Analysis

Highlights

The Company continues with a multi-channel approach which includes Duke Energy website pages, website banners, online services banner, paid search campaigns, Facebook, email, bill inserts, bill messages, direct mail, and customer segmentation to reach customers with a high propensity to participate. Examples of online, bill inserts and direct mail promotions are available in the appendix. Program staff explores other channels for marketing campaigns to reach the target audience and maximize both program performance as well as customer experience.

Vendors, partners and the team at Duke Energy collaborate regarding marketing initiatives, future scheduling, availability, routing, targeting, backlog, etc. to drive efficient operations as well as customer satisfaction.

Through December 31, 2021, the program conducted 8496 assessments. The program additionally installed 7565 feet of pipe insulation and 1523 additional bathroom aerators. The program also installed the following discounted measures: 4963 specialty LED globes, 3873 recessed bulbs, 5802 candelabra LEDs, 285 Hand-held Showerheads, 5 Blower Door audits and 857 Smart Thermostats were installed to eligible customers. The program continues to focus on maximizing the number of measures installed as well as cross-promoting other Duke Energy programs and offerings.

The program continues to focus on cross promotion of other programs and integration of in-field referrals for FindItDuke.

Potential Changes

Some program enhancements to increase the effectiveness of the Program being considered include the following:

- Continuing to optimize the online scheduling tool to enhance the customer experience
- Evaluating Virtual Audit capabilities to included townhomes/condos/Manufactured homes.
- Implementing post audit follow up with reminders of recommendations/referrals.

Issues

The program was shut down again in January due to the continuing Covid pandemic issues in 2021. Duke has continued working collaboratively with the vendor to build safety protocols, procedures and use of Personal Protective Equipment (PPE) into the assessment process for the relaunch that occurred on March 23.

Also, the program delayed the training and launch of the Blower Door measure until December 1st of 2021, due to the Covid pandemic and additional time required for training while in the home.

The program continues to coordinate closely with the vendor to monitor incoming demand, to balance marketing and to ensure adequate appointment slots are available

E. Marketing Strategy

Program participation continues to be driven through a multichannel approach including targeted mailings to pre-qualified residential customers, bill inserts, online promotions and online video. For those who elect to receive offers electronically, email marketing continues to be used to supplement direct mail. The Program management team continues to explore additional channels to drive awareness such as social, event marketing and other cross-promotional opportunities. The creative team continues to drive engagement and interest in the program based on online survey results and enrollment. In between larger initiatives, such as bill inserts, the program utilizes direct mail which can easily be modified based on demand. Core messaging remains simple and focused on key benefits—a free energy assessment from

Energy Assessments

Duke Energy can help save energy and money while also increasing comfort and it only takes three easy steps (You Call, We Come Over, You Save).

Home Energy House Call program information and an online assessment request form are available at www.duke-energy.com.

F. Evaluation, Measurement and Verification

To accommodate the additional measures now included in the energy assessment program and to work around the program suspension due to COVID, the evaluation timeframe has been pushed back to cover the period Sept 2020 – Aug 2021. The activities will begin in earnest in Fall 2021 with a final report scheduled for First Quarter 2023.

It is anticipated that the evaluation will consist of a billing analysis that will compare the consumption of program participants to future program participants. Engineering estimates for the kit measures will also be conducted to provide insight into the behavioral impacts achieved through the program and to provide impacts for the Additional Bulbs and other optional measures provided to program participants. Participants surveys will be used to determine in-service rates and determine free ridership at the measure level.

The process evaluation will consist of participant surveys which will identify barriers to participation, improve program processes and assess overall participant satisfaction.

Income-Qualified Energy Efficiency and Weatherization Assistance Program

A. Description

The purpose of the Low Income Energy Efficiency and Weatherization Assistance Program ("Program") is to assist low income customers with installing energy efficiency measures in their homes. There are three offerings currently in the Program:

- Neighborhood Energy Saver ("NES")
- Weatherization and Equipment Replacement Program ("WERP")
- Refrigerator Replacement Program ("RRP").

WERP and RRP are available for income-qualified customers in Duke Energy Carolinas, LLC's (the "Company's") service territory for existing, individually metered single-family homes, condominiums, and mobile homes. Funds are available for (i.) weatherization measures and/or (ii.) heating system replacement with a 15 or greater SEER heat pump, and/or (iii.) refrigerator replacement with an Energy Star appliance. The measures eligible for funding will be determined by a full energy audit of the residence. Based on the results of the audit, customers are placed into a tier based on energy usage so that high energy users to receive more extensive weatherization measures. (Tier 1 provides up to \$600 for energy efficiency services; and Tier 2 provides up to \$4,000 for energy efficiency services, including insulation and up to \$6,000 for HVAC replacement.) WERP and RRP are delivered in coordination with State agencies that administer the state's weatherization programs.

Customers participating in NES receive a walk-through energy assessment to identify energy efficiency opportunities in the customer's home and a one-on-one education on energy efficiency techniques and measures. Additionally, the customer receives a comprehensive package of energy efficient measures. NES participants may have the measures listed below installed in their homes based on the opportunities identified during the energy assessment.

1. Energy Efficient Bulbs - Up to 15 energy efficient bulbs (LEDs) to replace incandescent bulbs
2. Electric Water Heater Wrap and Insulation for Water Pipes
3. Electric Water Heater Temperature Check and Adjustment
4. Water Saving Faucet Aerators - Up to three faucet aerators
5. Water Saving Showerheads - Up to two showerheads
6. Wall Plate Thermometer
7. HVAC Winterization Kits – Up to three kits for wall/window air conditioning units will be provided along with education on the proper use, installation and value of the winterization kit as a method of stopping air infiltration.
8. HVAC Filters - A one-year supply of HVAC filters will be provided along with instructions on the proper method for installing a replacement filter.
9. Air Infiltration Reduction Measures - Weather stripping, door sweeps, caulk, foam sealant and clear patch tape will be installed to reduce or stop air infiltration around doors, windows, attic hatches and plumbing penetrations.

Audience

WERP is available to qualified customers in existing individually metered, owner-occupied single-family residences, condominiums or manufactured homes.

RRP is available to qualified customers in individually metered residences irrespective of whether the property owner or the tenant owns the refrigerator.

NES is available to individually metered residential customers in selected neighborhoods where ~50% of the homeowners have income equal to or less than 200% of the Federal Poverty Guidelines, based on third party and census data.

Income-Qualified Energy Efficiency and Weatherization Assistance Program

B & C. Impacts, Participants and Expenses

Income Qualified Energy Efficiency and Weatherization Assistance¹

| <i>\$ in millions, rounded</i> | Vintage 2021 | Vintage 2021 | % of Target |
|--------------------------------|----------------|-----------------------|-------------|
| | As Filed | YTD December 31, 2021 | |
| NPV of Avoided Cost | \$5.3 | \$0.7 | 12% |
| Program Cost | \$8.1 | \$4.6 | 57% |
| MW | 1.7 | 0.2 | 9% |
| MWH | 9,167.5 | 2,018.2 | 22% |
| Units | 12,214 | 1,322 | 11% |

1) Values are reflected at the system level.

D. Qualitative Analysis

Highlights

Neighborhood Energy Saver: After receiving regulatory approval from both the North Carolina Utilities Commission and the South Carolina Public Service Commission in the fall of 2012, the Program was officially launched by the Company in March 2013. The yearly goal is to serve a minimum of 7500 households. Honeywell Building Solutions was awarded the contract through a competitive bid process to administer the Program through 2021. Franklin Energy was awarded the contract for DEC through a competitive bid process beginning in January 2021

Following the Covid work stoppage, the Program started operating in March 2021 offering free walk-through energy assessments and installing measures in the homes of customers in Kannapolis, Charlotte, and Greensboro NC. NES 2.0 measures are evaluated for each customer, and installation began in July 2021. The NES 2.0 measures include:

1. Attic insulation
2. Duct sealing
3. Air sealing w/ blower door
4. Floor/Belly insulation for mobile homes
5. Smart Thermostat

Weatherization: The Company launched WERP and RRP in February 2015 in North and South Carolina. The Company selected the program administrator, North Carolina Community Action Agency (NCCAA), in December 2014 via competitive bidding. The company is working with the NC and SC Weatherization Agencies to deliver this program.

In 2021, 976 homes received weatherization in conjunction with the DOE weatherization program, with 183 refrigerators replaced, 98 Tier 1 services provided, 443 Tier 2 services provided, and 252 HVACs replaced

E. Marketing Strategy

Neighborhood Energy Saver: NES continues to target neighborhoods with a significant low-income customer base using a grassroots marketing approach to interact on an individual customer basis and gain trust. Participation is driven through a neighborhood kick-off event that includes trusted community leaders and local and state officials explaining the benefits of the Program. The purpose of the kick-off event is to rally the neighborhood around energy efficiency and to educate customers on methods to lower their energy bills. Customers have the option to make an appointment for an energy assessment at the time of the event. The community kick-off events were held virtually in the first half of 2021 in accordance with Covid operating procedures and transitioned to outdoor pop-up events in the later half of 2021 to maintain social distancing and other Covid safety protocols while engaging customers in person.

Income-Qualified Energy Efficiency and Weatherization Assistance Program

In addition to the kick-off event, the Company uses the following avenues to inform eligible customers about the Program:

- Direct mail (letters and reminder post cards)
- Door hangers
- Press releases and/or neighborhood flyers
- Community presentations and partnerships
- Inclusion in community publications such as newsletters, etc.

Weatherization: WERP and RRP plan to piggy-back the marketing efforts of the current state Weatherization Assistance Programs administered by the state weatherization service providers. Additionally, agencies may utilize referrals generated from other Company energy efficiency programs as well as from their existing pool of weatherization applicants.

Potential Changes

No potential changes,

F. Evaluation, Measurement and Verification

The DEC Weatherization report was completed in the 2nd Quarter of 2021 and presented at the July 2021 DEC/DEP Collaborative.

The next evaluation for DEC Weatherization is in the planning stage now, with a tentative completion date of Fourth Quarter 2022.

The combined DEC/DEP NES evaluation is also currently underway with a planned completion date in the fourth quarter of 2021.

Residential Smart \$aver® Energy Efficiency Program

A. Description

The Residential – Smart \$aver® Energy Efficiency Program (“Program”) offers measures that allow eligible Duke Energy Carolinas, LLC (the “Company”) customers to reduce energy consumption in the home. The Program provides incentives for the purchase and installation of eligible central air conditioner or heat pump replacements in addition to Wi-Fi enabled Smart Thermostats when installed and programmed at the time the heating ventilation and air conditioning (HVAC) system is installed. Program participants may also receive an incentive for attic insulation, air sealing, duct sealing, variable speed pool pumps, and heat pump water heaters.

Program staff is responsible for establishing relationships with HVAC and home performance contractors (“Trade Allies”) who interface directly with residential customers. These Trade Allies market and leverage the Program to assist with selling these products and services to customers. Once the Trade Ally has sold the service/product, they complete and submit incentive applications on behalf of the customer. An incentive is disbursed to the customer after the application has been approved and processed.

Duke Energy contracts with a third-party vendor for application processing, incentive payment disbursement, and Trade Ally and customer call processing.

Audience

The Company’s residential customers that meet the eligibility requirements of the Program may participate.

B & C. Impacts, Participants and Expenses

| Residential - Smart \$aver Energy Efficiency Program ¹ | | | |
|---|--------------------------|---------------------------------------|----------------|
| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
| NPV of Avoided Cost | \$4.5 | \$8.4 | 186% |
| Program Cost | \$5.9 | \$8.1 | 137% |
| MW | 1.3 | 2.6 | 190% |
| MWH | 5,570.4 | 9,425.7 | 169% |
| Units | 14,545 | 28,242 | 194% |
| 1) Values are reflected at the system level. | | | |

D. Qualitative Analysis

Highlights

The Smart \$aver ® incentive program finished the year with strong results. As of 12.31.21, Duke Energy Carolinas participation was 28,242, remaining consistent and slightly higher than 2020 results of 28,155.

The program team continues to emphasize best practices and to build support by offering additional training to the Trade Allies (i.e. streamlined rebate processing, rebate submission training, selling higher efficiency products) and modifications to program requirements when needed.

Customer engagement continues to be a focus of the Program especially through the “Find It Duke” referral platform that positions Duke Energy as a trusted advisor by providing free home improvement referrals through a premier network of qualified contractors who deliver exceptional customer service.

The Find it Duke referral channel has seen a decrease in volume due to COVID-19 concerns during 2020 that carried into the first half of the year but rebounded during the second half of 2021. The program generated 9,661 DEC referrals for 2021, compared to 8,314 in 2020 and 8779 in 2019.

Residential Smart \$aver® Energy Efficiency Program

Issues

The buy-in and participation of the Trade Ally network is vital to the success of the Program. Trade Allies are important to the Program's success because they interface with the customer during the decision-making event. Customers who responded to a survey to rate their experience provided an average contractor rating of 4.84 out of 5.0 stars during 2021.

E. Marketing Strategy

Promotion of the rebate Program is targeted to HVAC and home performance contractors as well as pool and plumbing contractors that install variable speed pumps and heat pump water heater technology.

Program information to educate customers about the Program and encourage participation and Trade Ally enrollment links are available on the Program's website. Increasing the overall awareness of the Program and the participation of Trade Allies ensures more customers are considering the benefits of the Program at the time of purchase. Rebate marketing materials remain in place throughout the Carolinas in Lowe's and Home Depot stores that inform customers about the rebates available and how to apply for them post-purchase. The Midstream channel has also been used to promote Pool Pump rebates through one national distributor along with local Pool Retailers throughout NC/SC.

Various customer marketing campaigns during the first half of 2021 leveraged channels such as TV, radio, social media and email messaging in order to build awareness of the referral service. Other marketing efforts, such as paid search and co-branded special offer campaigns throughout the year created awareness and drove referral volumes up for the channel.

F. Evaluation, Measurement and Verification

No evaluation activities occurred in 2021. The evaluation for the HVAC measures is scheduled for evaluation work to begin in mid-year 2022, with a completion date in mid-2023. The timeframe for a final report has been pushed out one year to allow additional participation in the referral component of the program.

Multi-Family Energy Efficiency Program

A. Description

The Multi-Family Energy Efficiency program ("Program") provides energy efficient lighting and water measures to reduce energy usage in eligible multi-family properties. The Program allows Duke Energy Carolinas, LLC (the "Company") to utilize an alternative delivery channel which targets multi-family apartment complexes. The measures are installed in permanent fixtures by Franklin Energy, the program administrator. Franklin Energy oversees all aspects of the Program including outreach, direct installations, and customer care.

The Program helps property managers save energy by offering energy efficient lighting and water products. The Program offers LED lighting measures including A-lines, globes, candelabras, recessed, and track bulbs, and energy efficient water measures such as bath and kitchen faucet aerators, water saving showerheads, pipe wrap and smart thermostats are available at a discounted price to Property Managers. Water measures are available to eligible customers with electric water heating. Customers are also able to purchase smart thermostats, and have them installed, at a discounted price. These measures assist with reducing maintenance costs while improving tenant satisfaction through lower energy bill.

The Program offers a service where Franklin Energy installs the lighting, water measures and smart thermostats during scheduled visits. If the customer opts into purchasing the discounted smart thermostats, Franklin will also install those. Crews carry tablets to keep track of which measures are installed in each apartment.

After installations are completed, Quality Assurance ("QA") inspections are conducted on 20 percent of properties that completed installations in each month. The QA inspections are conducted by an independent third party. Any QA adjustments are provided to the Company to update participation records.

Audience

The target audience is property managers who have properties served on individually metered residential rate schedules. To receive water measures, apartments must have electric water heating. Properties with CFL installations over 5 years old are eligible for all the new LEDs and water measures. Lighting measures are only installed in permanent lighting fixtures such as ceiling lights, recessed lighting, track lighting, ceiling fan lights, and bathroom vanity lighting.

B & C. Impacts, Participants and Expenses

Multi-Family Energy Efficiency¹

| <i><u>\$ in millions, rounded</u></i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|---------------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$14.2 | \$1.0 | 7% |
| Program Cost | \$4.9 | \$0.5 | 11% |
| MW | 3.0 | 0.3 | 9% |
| MWH | 28,264.6 | 2,019.7 | 7% |
| Units | 523,776 | 44,542 | 9% |

1) Values are reflected at the system level.

D. Qualitative Analysis

Highlights

The Program had been suspended in 2021 due to the pandemic with no program installation completed through August 2021. The Program was relaunched in July 2021 with installs starting in September 2021.

In early 2021, the Program filed a request to add 1.25 GPM showerheads and discounted smart thermostats to the program. The new measures were approved and were included upon the relaunch of the program in late July 2021.

Multi-Family Energy Efficiency Program

North Carolina had 29 properties completed, which included 4071 units (apartments) and 44,542 measures. These measures consisted of 31,511 LED lightbulbs, 4,541 aerators, 2,398 showerheads and 6,092 pipe wraps. Due to continued staffing and hiring issues, there were no installs in South Carolina in 2021.

Issues

Due to the Covid pandemic and safety concerns for customers and employees, the program was suspended in March 2020 impacting the ability to achieve the program goals. While the program relaunched in July 2021, Covid still caused challenges in scheduling installs and maintaining those installs, due to an increased risk of cancellations.

Resource constraints, led by a shortage of labor, has caused for a slower restart than desired. There was improvement in North Carolina, but South Carolina still had no install teams as of December 2021.

Even though discounted smart thermostats were added to the program upon its restart in July 2021, there were no properties that opted to have the discounted smart thermostats installed.

Potential Changes

New technology enhancements are being implemented to increase the accuracy of recording the measures installed and the bulb wattages removed, to increase efficiencies with scheduling units, and to improve the tracking of new opportunities from both the direct installers and energy advisors.

E. Marketing Strategy

As program implementer, Franklin Energy is responsible for marketing and outreach to property managers in the Company's service territory. Marketing is primarily done through outbound appointment setting calls, industry trade events, and on-site visits to gauge initial interest in the program. The Program staff also utilizes local apartment association memberships to obtain access to contact information for local properties and attends association trade shows or events to promote the program.

A Multi-Family Energy Efficiency public website landing page is available for property managers to learn more about the Program. A program brochure and a frequently asked question sheet are available for download. All marketing materials were updated to include the new measures, the 1.25 GPM showerheads and discounted smart thermostats.

Other ways a property manager may learn more about this Program are through the MyDuke Portal, an online tool used to pay the utility bills of vacant units at their property. The MyDuke Portal presents a promo link that directs the user to the Program website for more information.

Once enrolled, Franklin Energy provides property managers with a variety of marketing tools to create awareness of the Program among their tenants. The tools include letters to each tenant informing them of energy efficient measures being installed and of when the installations are taking place. Tenants receive educational leave-behind brochures when the installation is complete. Feedback from both property managers and tenants is important for the Program's continued success. Property managers are provided with leave-behind materials about the program which also includes a survey for them to complete and return. For tenants, the educational leave-behind brochure includes a satisfaction survey to return to Duke Energy. Online versions of both the Program Manager and Tenant surveys are also available.

After the installation, window clings are placed in strategic areas throughout the property, specifically in the common areas, entry and on each residential building on site (to the extent applicable). Using the window cling ensures that the program and Duke Energy are recognized long after the installation has taken place.

Multi-Family Energy Efficiency Program

F. Evaluation, Measurement and Verification

The combined DEC/DEP EM&V evaluation for the Multifamily program is currently underway and will include an impact and process evaluation. As part of the impact evaluation, virtual site verifications will be conducted to measure installations and collect data for use in an engineering analysis. The evaluation is projected to be completed in mid-2022.

G. Appendix

Program Brochure-

Updated to add Commercial Offerings partnership and new water measures

FAQ for Property Managers

What does the install process look like?
On your scheduled installation days, our team will arrive at 8:45 a.m. to begin working by 9 a.m. A member of your staff will need to accompany our installers and handle keys throughout the installation process. The time spent in each unit varies depending on the layout and products being replaced. We will leave a flyer for each resident explaining what was installed and a survey providing an opportunity to give us feedback. It's that simple and that fast!

How do we qualify?
The Multifamily Energy Efficiency Program is available to eligible customers of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Kentucky and Duke Energy Indiana. Additional qualifications depend on several factors such as metering, existing products, and method for water heating. To see which offerings your property qualifies for, you will need to schedule a complimentary energy assessment with one of our Energy Advisors by calling 888.297.1671 or emailing dukeenergymultifamilyeep@franklinenergy.com.

How much does it cost?
Products are offered at no cost with the exception of smart thermostats, which are available for installation at a discounted price. This program is part of many programs Duke Energy offers its customers from funds set aside to help reduce energy use. There are two parts to our program: residential (inside tenant units) and commercial (common areas). There are no limits on how many products we can install. Your Energy Advisor will go over your qualifications during the energy assessment.

What safety precautions should we know before installation?
As we are going through the units, if there are any unsecured pets or unattended minors, we will not be able to enter to perform the installation. During product installation, we ask that all small children be kept at a safe distance from the installers. The installers will provide further direction once on-site.

What precautions are you taking for COVID-19?
We will take precautions for the safety of our customers and workers including: asking about the health of the home's occupants prior to appointments, wearing protective equipment, practicing social distancing on-site and limiting in-home contact as much as possible. We will ask property staff to do the same during the install process.

What is the next step?
Call 888.297.1671 or email dukeenergymultifamilyeep@franklinenergy.com to schedule an appointment for an energy assessment.

Contact us today!

Phone: 888.297.1671 | Website: duke-energy.com/multifamily
Email: dukeenergymultifamilyeep@franklinenergy.com

This program is administered by Franklin Energy, a contractor of Duke Energy with experience in the installation of home energy-saving products.
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DUKE ENERGY
BUILDING A SMARTER ENERGY FUTURE™

Multifamily Energy Efficiency Program

It's what's on the inside that counts.
Our FREE energy-saving lightbulbs and water-saving devices can help your residents save money.

Start saving now with the latest FREE energy-saving products.

Multifamily Energy Efficiency Program
If you are a Duke Energy customer, your residents may receive energy-saving products – installed in each multifamily residence and qualifying common areas at no cost. Optional smart thermostats are available for installation at a discounted price. The Multifamily Energy Efficiency Program is available to customers of all Duke Energy utilities.

See what other property managers had to say.

You guys got top marks
"I received the satisfaction survey and filled it out. You guys got top marks. I received a lot of compliments about how friendly and professional you all were. Thank you again for all that you did!"
– Asheville Property Manager

They were so polite and professional
"I just wanted to let you know that your team did a wonderful job installing the energy-saving products. They were so polite and professional, which made the residents feel more at ease with the installation. I really appreciate all the hard work that went into making this project run so smoothly. We are now officially energy efficient!"
– Raleigh Property Manager

Standard, Globe, Candelabra, Recessed and Track LEDs
ENERGY STAR® light-emitting diodes, or LEDs, use up to 90% less energy and can save at least \$80 over their lifetime in energy costs compared to traditional incandescent bulbs. A popular residential option, LEDs can be installed in bathrooms, track lights, ceiling fans, recessed lights and other high-usage permanent fixtures. A19 models are not available for common areas, and T8 LEDs are available for common areas only.

Exit Sign LEDs
Exit signs are necessary to keep your residents safe. Save on operating and labor costs by replacing incandescent exit sign bulbs with LEDs.

Google Nest
The optional Google Nest Thermostat can help you save an average of 10% to 12% on heating costs and 15% on cooling costs.¹

Bathroom and Kitchen Faucet Aerators
These faucet aerators use up to 55% less water than traditional 2.2-gallons-per-minute (gpm) faucets, which can reduce water and sewer costs, as well as the amount of energy used to heat the water.¹
Outer ring allows for adjustable flow.

Water-saving Showerheads
These showerheads use up to 40% less water than traditional 2.5-gpm showerheads, which can reduce water and sewer costs, as well as the amount of energy used to heat the water.¹
Outer ring allows for adjustable flow.

Hot Water Pipe Wrap
Pipe wrap insulation reduces water and energy use by preventing heat loss while hot water travels through your building's pipes.¹

1 If water is heated by electricity, savings are not guaranteed.
2 Independent studies conducted in the U.S. showed that Nest thermostats saved people an average of 10% to 12% on heating and 15% on cooling. Individual savings are not guaranteed. Learn more at nest.com/real-savings.

This program is administered by Franklin Energy, a contractor of Duke Energy with experience in the installation of home energy-saving products.
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DUKE ENERGY
BUILDING A SMARTER ENERGY FUTURE™

Multi-Family Energy Efficiency Program

Sorry We Missed You
Door post-it


| | |
|---|---|
|  <p>BUILDING A SMARTER ENERGY FUTURE™</p> |  <p>BUILDING A SMARTER ENERGY FUTURE™</p> |
| <h2>Sorry We Missed You!</h2> | <h2>Sorry We Missed You!</h2> |
| <p>Today we stopped by to install your free energy-saving products, but</p> <p>_____</p> <p>_____</p>  | <p>Today we stopped by to install your free energy-saving products, but</p> <p>_____</p> <p>_____</p>  |
| <p>Don't worry – you can still get your products! Simply contact your property manager to find out how.</p> | <p>Don't worry – you can still get your products! Simply contact your property manager to find out how.</p> |
| <p>Learn more at duke-energy.com/multifamily. Note that this program is administered by Franklin Energy, a contractor of Duke Energy with experience in the installation of home energy-saving products. The Multifamily Energy Efficiency Program is available to eligible customers of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Kentucky and Duke Energy Indiana.</p> <p>Google, Google Nest and Google Nest Thermostat are trademarks of Google LLC.</p> <p>©2021 Duke Energy Corporation</p> | <p>Learn more at duke-energy.com/multifamily. Note that this program is administered by Franklin Energy, a contractor of Duke Energy with experience in the installation of home energy-saving products. The Multifamily Energy Efficiency Program is available to eligible customers of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Kentucky and Duke Energy Indiana.</p> <p>Google, Google Nest and Google Nest Thermostat are trademarks of Google LLC.</p> <p>©2021 Duke Energy Corporation</p> |

Window Cling



BUILDING A SMARTER ENERGY FUTURE™

We are now energy efficient thanks to Duke Energy!



This property participated in Duke Energy's Multifamily Energy Efficiency program and now has energy-efficient products that benefit you.

©2021 Duke Energy Corporation
The Multifamily Energy Efficiency Program is available to eligible customers of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Kentucky and Duke Energy Indiana.

OFFICIAL COPY

Mar 01 2022

Multi-Family Energy Efficiency Program

Tenant Notice

You're Invited!

Save money on your energy bill with free products from Duke Energy.

Dear Resident:

Congratulations! Your property manager has enrolled your building in the **Multifamily Energy Efficiency Program**. Based on an assessment of your home, a selection of these complimentary products may be installed to help reduce your monthly energy usage:



Standard, globe, candelabra, recessed and track LED lightbulbs to replace your outdated incandescent lightbulbs. *(Track lighting can get very hot; please make sure your track lights are turned off before our installers arrive.)*



Water-saving showerheads to replace your existing fixtures.



High-efficiency faucet aerators for your kitchen and bathroom sinks.



Hot water pipe wrap to reduce heat loss.



Google Nest Thermostat to help you save an average of 10% to 12% on heating costs and 15% on cooling costs¹

Help Us Help You!

In preparation for your installations, please make sure to:

- Safely contain your pet(s) during our visit
- Provide access to your water heater, shower(s), sinks and light fixtures
- Put away your valuables
- Have an adult present during installation
- Keep a safe distance while installers are working in your home

Trained technicians will perform the **free** installations in each residence on the date and time indicated below. The technicians will be accompanied by a member of the maintenance or management staff, who will provide access to your residence if you are not home at the time of installation. Additionally, the technicians will be in uniform with proper photo identification. We will take precautions for the safety of our customers and workers including: asking about the health of the home's occupants prior to appointments, wearing protective equipment, practicing social distancing on-site and limiting in-home contact as much as possible.

Technicians will be in your building:

XXXXXXX, XXXXXXX, XXXXXX

After the installations are completed, you will receive documentation and other educational materials about the energy-saving products that were installed free of charge in your home. Included in these materials is a customer satisfaction survey that we would appreciate your completing.

The Multifamily Energy Efficiency Program is available to eligible customers of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Kentucky and Duke Energy Indiana. For additional information about this offering, or other offerings from Duke Energy, contact the Multifamily Energy Efficiency Program at **888.297.1671**, email **dukeenergymultifamilyeep@franklinenergy.com** or visit **duke-energy.com/multifamily**.

Thank you!
Multifamily Energy Efficiency Team

¹Independent studies conducted in the U.S. showed that Nest thermostats saved people an average of 10% to 12% on heating and 15% on cooling. Individual savings are not guaranteed. Learn more at nest.com/real-savings.

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Mar 01 2022

Multi-Family Energy Efficiency Program

Case Study

MULTIFAMILY ENERGY EFFICIENCY PROGRAM CASE STUDY

Here's What They're Saying About Us

"The Duke Energy Multifamily program has been instrumental in reducing the cost of living in Bell communities, enhancing our environmental stewardship and differentiating our NC/SC properties in the marketplace. We look forward to a continued partnership with Franklin Energy and Duke Energy."

– Wes Winterstein, Vice President, Ancillary Services, Bell Partners Inc.

ESTIMATED SAVINGS FOR RESIDENTS

| Annual Electric Savings | | Annual Electric Bill Savings | | |
|--|--------------------------------------|---|-------------------------|---------------|
| 1,015 kWh | | \$107 | | |
| Value and Savings for Bell Partners and Its Residents Through 2018 | | Going Green Makes a Difference | | |
| Annual Electric Savings | Value of Products and Energy Savings | So far Bell Partners and Duke Energy have delivered energy savings equivalent to: | Cars Taken Off the Road | Trees Planted |
| 2,771,664 kWh | \$434,089 | | 314 | 37,653 |

DUKE ENERGY AND BELL PARTNERS ARE GOING GREEN!

To date, Bell Partners and Duke Energy have collaborated to make nine communities more energy efficient by replacing standard lighting with LED bulbs, replacing inefficient faucets and showerheads with water-saving products, and insulating hot water heater pipes. The cost to Bell Partners and its residents? Nothing! In 2017 and 2018, Duke Energy provided and installed:

- \$152,000 worth of energy-saving products
- Over 26,000 LED lights
- Nearly 5,600 water-saving faucet aerators
- Over 1,800 energy-saving showerheads
- Nearly 14,000 feet of pipe insulation

Bell Partners residents can save an average of \$107 annually on their electric bill. The communities save ongoing O&M expenses. And with the help of Duke Energy, Bell Partners continues to be a leader in the green multifamily market.



BUILDING A SMARTER ENERGY FUTURE®



Power Manager®

A. Description

Power Manager® (“Program”) is a residential demand response program that helps ensure power reliability during peak demand periods or if continuity of service is threatened. Duke Energy Carolinas, LLC (the “Company”) provides two program options designed to reduce load from air conditioning or electric heating when events are called.

The original Power Manager option utilizes a Load Control Device (LCD) installed near the outdoor unit of a qualifying AC. This enables a participating customer’s AC’s run-time to be reduced when the Company initiates a control event. The Company can perform cycling (allowing the AC to run a portion of each half hour during an event) or full-shed interruption (AC is prevented from running during an event).

The LCD option is available to qualifying single family homeowners. As incentive, participants receive an \$8 monthly credit on their July through October bills (\$32 annually).

The customer’s AC system experiences no adverse impacts because the load control device has built-in safeguards to prevent the “short cycling” of the AC. The indoor fan is not controlled and may run, circulating air during an event.

Available since late December 2019, the program’s Smart Thermostat option utilizes a qualifying wi-fi connected thermostat to remotely change participants’ temperature setting when the Company initiates a control event. By adjusting the thermostat’s setting (up for cooling/down for heating), the system’s run-time and energy use can be reduced during an event.

The Company has engaged EnergyHub to provide support services for the Smart Thermostat option. Services include: the control system used in managing events, participant incentives, relationships with participating thermostat manufacturers, and coordinating marketing efforts between the Company and thermostat manufacturers.

The Smart Thermostat option is available to qualifying residential customers who have registered their thermostat(s) with participating manufacturers, currently: Alarm.com/Vivint, ecobee, Honeywell, Lux, Nest, Radio Thermostat and Sensi.

As incentive for participating, customers are emailed a \$75 Visa e-gift card upon successful enrollment; and each subsequent year they remain on the program they are emailed a \$25 Visa e-gift card.

Audience

The LCD option is available to the Company’s qualifying residential customers residing in owner-occupied, single-family residences with a qualifying central air-conditioning unit.

For new enrollments, the Smart Thermostat option is available to the Company’s qualifying residential customers, with thermostat-controlled central electric heating and cooling, who have installed, connected to the internet, and registered their qualifying smart thermostat with the thermostat’s manufacturer.

Customers may participate in only one of the Power Manager options.

Power Manager®**B & C. Impacts, Participants and Expenses**PowerManager¹

| <i>\$ in millions, rounded</i> | Vintage 2021 | Vintage 2021 | % of Target |
|--------------------------------|----------------|-----------------------|-------------|
| | As Filed | YTD December 31, 2021 | |
| NPV of Avoided Cost | \$82.9 | \$57.6 | 69% |
| Program Cost | \$20.4 | \$16.8 | 82% |
| MW² | 659.0 | 469.5 | 71% |
| MWH | 0.0 | N/A | - |
| Units³ | 620,406 | 442,013 | 71% |

Notes on Tables:

1) Values are reflected at the system level.

2) MW capability at the generator derived from the average reduction during the June - September control season achieved by a full shed of participating air conditioners. At month-end, December 2021, we had the ability to shed 469.5 MW (at the plant), representing 71.2% of the as filed capability.

3) Units included in filing represent average kW at the meter during the June - September control season.

YTD value is based on 296,246 Power Manager devices and 47,484 thermostats at month-end December 2021.

D. Qualitative Analysis**Power Manager Events**

A brief full-shed LCD test event was conducted in June. The successful test was initiated by DEC's Energy Control Center. Several LCD test events were planned in late May and June but, given load forecasts and system conditions, were not called so that the full Power Manager reduction capacity would be available as an operating reserve should it have been needed.

On 12 days from July 1 through September 13, Power Manager events were called as part of the planned Evaluation, Measurement and Verification study conducted for the LCD and Smart Thermostat options.

By using sample subgroups, no customers were controlled more than six times during these event days.

No events were called for the winter-focused Smart Thermostat customers in 2021.

Covid Impacts**LCD Option**

Although still a very real presence, COVID-19 did not materially affected Power Manager operations in 2021. The precautions and protocols developed in 2020 are still being used. These will continue for the foreseeable future as variants continue to increase infection rates throughout the country.

In 2021, Franklin Energy, the Company's field services contractor, had only one positive case in their DEC support team.

Smart Thermostat Option

Because enrollment and ongoing support of the smart thermostat option do not require field visits, COVID-19 has had no discernable impacts to 2021 operations.

Power Manager®

E. Marketing Strategy

LCD Option

Outbound telephone calling remains the primary marketing channel, with additional outreach via email, the Company's residential newsletter and ads on the Company's website.

By year-end 2021, 7,130 new customers had been enrolled in the LCD option (NC: 4,931 and SC: 2,199), representing 8,536 ACs. At year-end, there were 244,210 customers (NC: 184,175 and SC: 60,035) and 296,246 ACs on the program – an annual net increase of 3,659 customers.

Prior to the start of the event season, Power Manager customers were mailed a card reminding and thanking them for their participation in the program. This was larger than postcards used in the past and, on the inside, customers were provided a removable magnet with program information.

Smart Thermostat Option

The primary marketing channel for the smart thermostat option is through participating thermostat companies. Duke Energy, working through EnergyHub, collaborated with these companies in the development of Power Manager smart thermostat marketing messages.

Once their smart thermostat is installed and registered with the manufacturer, customers will be presented with information on the program by the thermostat company. Channels include the thermostat app, mobile app and email communications. Using these different channels, customers are provided access to the program's requirements, general information and enrollment opportunities.

The Company supplemented thermostat manufacturers' marketing with promotions of smart thermostats available through the Company's Online Savings Store. In addition, email, the Company's residential newsletter and website banner ads were used.

At year-end 2021, 36,368 customers (47,484 thermostats) were participating in the smart thermostat option – a net annual increase of 11,625 customers.

F. Evaluation, Measurement and Verification

Results for the Summer 2019 Power Manager program were completed in the second quarter of 2020. The results of the evaluation however, showed evidence of M&V feeder issues that led to lower than expected results. Subsequently, Duke Energy identified and corrected the issues. Nexant and Duke Energy agreed to conduct a subsequent impact analysis for the 2020 Power Manager season in order to verify those corrective measures and to re-calibrate the program's performance under fully operational conditions.

The results of the Summer 2020 Power Manager evaluation – completed in June 2021 - reflected a slight improvement to the Summer 2019 evaluation with an estimated load reduction of 1.59 kW based on the time temperature matrix to estimate future resource capability. Results of Summer 2020 were presented at the July 2021 DEC/DEP Collaborative.

The Summer 2021 evaluation which will estimate savings for DLC and BYOT programs is underway. An important change to note is the change in methodology. The evaluation will have a less complex RCT design and will mirror the methodology used for EnergyWise Home. The evaluation report is planned to be completed in the early months of Second Quarter 2022.

G. Appendix

Power Manager®

Marketing Examples:

Duke Energy Carolinas Website

Banners on the Home Page



Reward yourself >

Enroll in Power Manager® this winter.



Fall in love with rewards. >

Make a difference in your community by enrolling in Power Manager®. You'll get up to \$75 when you do.



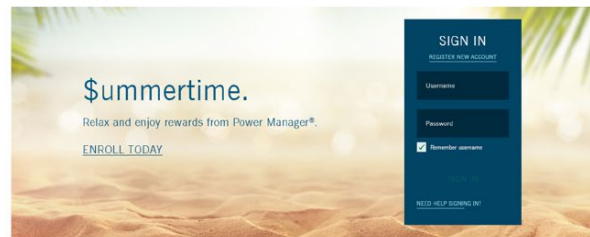
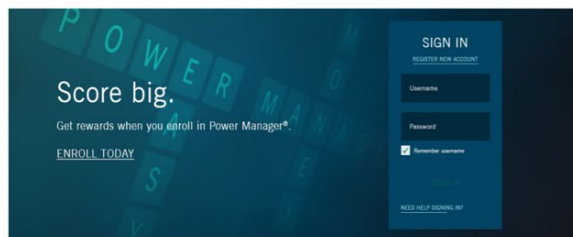
Find some hidden rewards >

Make a difference in your community by enrolling in Power Manager®. Qualifying customers can get up to \$75.



Relax and enjoy rewards >

Make a difference in your community by enrolling in Power Manager®. You'll get up to \$75 when you do.



Rake in the rewards >

Get up to \$75 with Power Manager® – plus make a difference for the environment and your community.



Rewards to smile about >

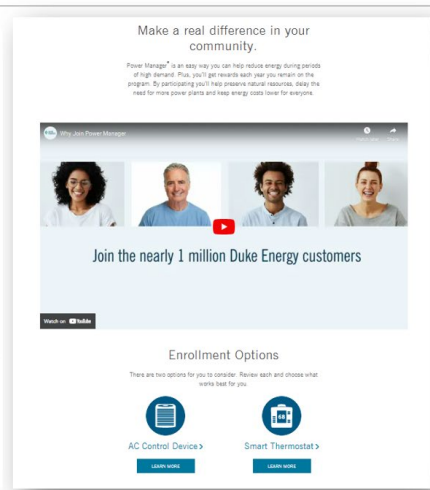
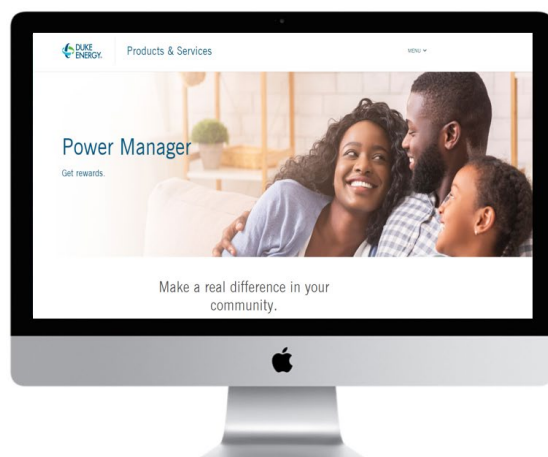
Enroll in Power Manager®. It's easy and you can get up to \$75 while making a difference in your community.



Harvest the rewards >

Gather up to \$75 with Power Manager®. It's easy – and you'll be making a real difference for your community.

New Power Manager Website



Power Manager®

Home Energy Report

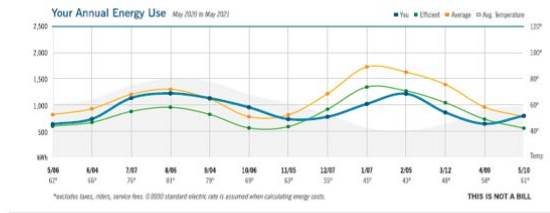
Home Energy Report Ads (Ran in March, May and June)



Don't leave money on the table

Make a difference in your community by enrolling in Power Manager®. It's an easy way to help reduce energy use during periods of high demand. Enroll your smart thermostat, AC unit or heat pump to get rewards. Check out the rewards and see if you qualify!

 Learn more and sign up at: duke-energy.com/pm



Get more from your Home Energy Profile

Discover more ways to save when you complete your profile at duke-energy.com/home-profile.

Household - 0 of 7 completed

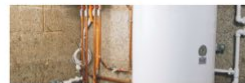
Heating - 0 of 3 completed

Kitchen - 0 of 4 completed

Electronics - 0 of 5 completed

Lighting - 0 of 3 completed

Other - 0 of 3 completed



Upgrade your hot water heater

Save energy with a heat pump water heater. This energy-efficient appliance takes heat from the air and transfers it to the water. Traditional water heaters are much less efficient - and the older the model, the less efficient it probably is.

\$260 annual savings



Don't leave money on the table

Make a difference in your community by enrolling in Power Manager®. It's an easy way to help reduce energy use during periods of high demand. Enroll your smart thermostat, AC unit or heat pump to get rewards. Check out the rewards and see if you qualify!

duke-energy.com/pm



Time your energy usage

It isn't always easy to remember to switch off the lights, TV or other devices when you leave the room. But who wants to pay for energy that you're not even using? Instead, put your devices on a timer. Create schedules that work for you and the savings will add up - automatically - over time.

\$165 annual savings

September Report



Rake in the rewards!

Get up to \$75 by enrolling in Power Manager®. Make a difference in your community by helping reduce energy use during periods of high demand. Enroll your smart thermostat, AC unit or heat pump to get rewards. See if you qualify!

Learn more and sign up at: duke-energy.com/Rake

Power Manager®

Residential Newsletter

Residential Newsletter Ad (June and July)



Enjoy sweet rewards.

Make a difference in your community
by enrolling in Power Manager®.

ENROLL TODAY

Smart Thermostat Emails

DUKE ENERGY

Love rewards?

Enroll in Power Manager® to get a \$75 e-gift card.

If you have a qualifying smart thermostat, now's your opportunity to earn a \$75 e-gift card.* Enroll in our Power Manager smart thermostat option. You'll also receive a \$25 e-gift card each year you stay enrolled.

[LEARN MORE](#)

*You must be a Duke Energy residential customer with electric heating and cooling, have the electric service in your name and have a qualifying internet-connected smart thermostat.

Program Benefits

- Get a \$25 e-gift card each year you're enrolled.
- Help the environment and preserve natural resources.
- Help delay the need for more power plants and transmission lines.

To learn more about how the Power Manager smart thermostat option works visit our [website](#).

DUKE ENERGY

REWARD YOURSELF!

Get a \$75 e-gift card for enrolling in Power Manager®.

Thank you for purchasing a smart thermostat from our Online Savings Store. Get a \$75 e-gift card for successfully enrolling in our Power Manager smart thermostat option. Plus, you'll receive a \$25 e-gift card each year you stay enrolled.

[LEARN MORE](#)

Program Benefits

- Get a \$25 e-gift card each year you're enrolled.
- Help the environment and preserve natural resources.
- Help delay the need for more power plants and transmission lines.

To learn more about how the Power Manager smart thermostat option works, visit our [website](#).

*You must be a Duke Energy residential customer with electric heating and cooling, have the electric service in your name and have a qualifying internet-connected smart thermostat.

DUKE ENERGY

It's giving season.

Give yourself a \$75 e-gift card when you enroll in Power Manager®

If you have a qualifying smart thermostat, successfully enroll in our Power Manager® program this holiday season and get a \$75 Visa® e-gift card.

What is Power Manager?

It's a program to help reduce energy use during times of high demand. Participants agree to have their smart thermostats briefly adjusted during peak periods and are rewarded in return.

[ENROLL NOW](#)

Program Benefits

- \$75 e-gift card after successfully enrolling and \$25 each year you're enrolled.*
- Help the environment and preserve natural resources.
- Help delay the need for more power plants and transmission lines.

Learn more about the [Power Manager® program](#).
If you have any questions, please [email us](#).

Duke Energy does not approve or endorse any one device or vendor over another and is not responsible for customer devices and products. Google and Google Nest Learning Thermostat are trademarks of Google LLC.
*You must be a Duke Energy residential customer with central electric heating and cooling, have the electric service in your name and have a qualifying internet-connected smart thermostat.

BUILDING A SMARTER ENERGY FUTURE™

Power Manager®

Smart Thermostat and Online Savings Store Co-Marketing

DUKE ENERGY Online Savings Store

Dig into big savings for Earth Day.

Save up to \$60 on a smart thermostat.* Discover a world of savings on energy-efficient items for your home at our Earth Day Sale. When offering these discounts on smart thermostats and you can get 20% off select LED bulbs. This sale ends May 6, so shop today. We'll even ship your order for FREE!

[SHOP NOW](#)

*Savings applies to select items from Energy Efficient Alliance program.

\$30 OFF

HONEYWELL T9 SMART THERMOSTAT

Retail price: \$119
Your price: \$89

\$30 OFF

GOOGLE NEST THERMOSTAT

Retail price: \$139
Your price: \$109

\$30 OFF

ECOBEE3 LITE

Retail price: \$119
Your price: \$89

\$30 OFF

ECOBEE3 SMART THERMOSTAT WITH VOICE CONTROL

Retail price: \$149
Your price: \$119

Get 20% off select LED globe and decorative bulbs.

Enroll your smart thermostat and get \$75!

After you purchase and install your discounted smart thermostat, successfully enroll in the Power Manager® smart thermostat option to receive a \$75 e-gift card (limit 1 per household).** Plus, you'll receive a \$25 e-gift card each year you are enrolled in the program.

[LEARN MORE](#)

**You must be a Duke Energy residential customer with central electric heating and cooling, have the electric service in your name and have a qualifying internet connected smart thermostat.

Visit the Online Savings Store for instant savings on more energy-efficient items.

DUKE ENERGY Online Savings Store

**★ MEMORIAL DAY ★
SMART THERMOSTAT
★ SALE! ★**

Get up to \$100 off a smart thermostat.

The Online Savings Store has great deals on smart thermostats for Memorial Day. Smart thermostats are a great way to take control of how much energy your home uses, even when you're not at home. This sale ends May 31, so shop today. We'll even ship your order for FREE!

[START SAVING](#)

Honeywell Home Wi-Fi Smart Color Thermostat

Retail price: \$149
Duke Energy instant savings*: -\$50
Manufacturer sale: -\$50
Your price: \$49

Google Nest Learning Thermostat

Retail price: \$129
Duke Energy instant savings*: -\$50
Manufacturer sale: -\$50
Your price: \$29

Limit 2 smart thermostats per customer account. While supplies last.

Enroll your smart thermostat and get \$75!

After you purchase and install your discounted smart thermostat, successfully enroll in the Power Manager® smart thermostat option to receive a \$75 e-gift card (limit 1 per household).** Plus, you'll receive a \$25 e-gift card each year you are enrolled in the program.

[LEARN MORE](#)

**You must be a Duke Energy residential customer with central electric heating and cooling, have the electric service in your name and have a qualifying internet connected smart thermostat.

Visit the Online Savings Store for instant savings on more smart thermostats.

DUKE ENERGY Online Savings Store

UP TO \$100 OFF!

Save at our Smart Thermostat Sale

Celebrate Independence Day with big deals on smart thermostats from the Online Savings Store. Get up to \$100 off a smart thermostat when you shop by July 6. Shipping is even FREE!

[SHOP NOW](#)

\$70 OFF

HONEYWELL HOME Wi-Fi SMART COLOR THERMOSTAT

Available in Snow or Charcoal

Retail price: \$119
Your price: \$49

\$80 OFF

GOOGLE NEST THERMOSTAT

Available in Snow or Charcoal

Retail price: \$129
Your price: \$49

Enroll your smart thermostat and get \$75!

After you purchase and install your discounted smart thermostat, successfully enroll in the Power Manager® smart thermostat option to receive a \$75 e-gift card (limit 1 per household).** Plus, you'll receive a \$25 e-gift card each year you are enrolled in the program.

[LEARN MORE](#)

**You must be a Duke Energy residential customer with central electric heating and cooling, have the electric service in your name and have a qualifying internet connected smart thermostat.

Visit the Online Savings Store for instant savings on more energy-efficient items.

DUKE ENERGY Online Savings Store

CELEBRATE LABOR DAY WITH GREAT DEALS!

Celebrate Labor Day with big deals on smart thermostats and LED bulbs from the Online Savings Store. Shop by Sept. 7 and we'll ship your order for FREE!

[SHOP NOW](#)

Smart savings on smart thermostats!

Save on select ecobee, Honeywell and Emerson models.

Priced from \$45 to \$169 (Retail price: \$129-\$249)

Save on LED bulbs, too!

Find great deals on select decorative, globe and indoor reflector bulbs.

Priced from \$0.99 to \$2.29

Enroll your smart thermostat and get \$75!

After you purchase and install your discounted smart thermostat, successfully enroll in the Power Manager® smart thermostat option to receive a \$75 e-gift card (limit 1 per household).** Plus, you'll receive a \$25 e-gift card each year you are enrolled in the program.

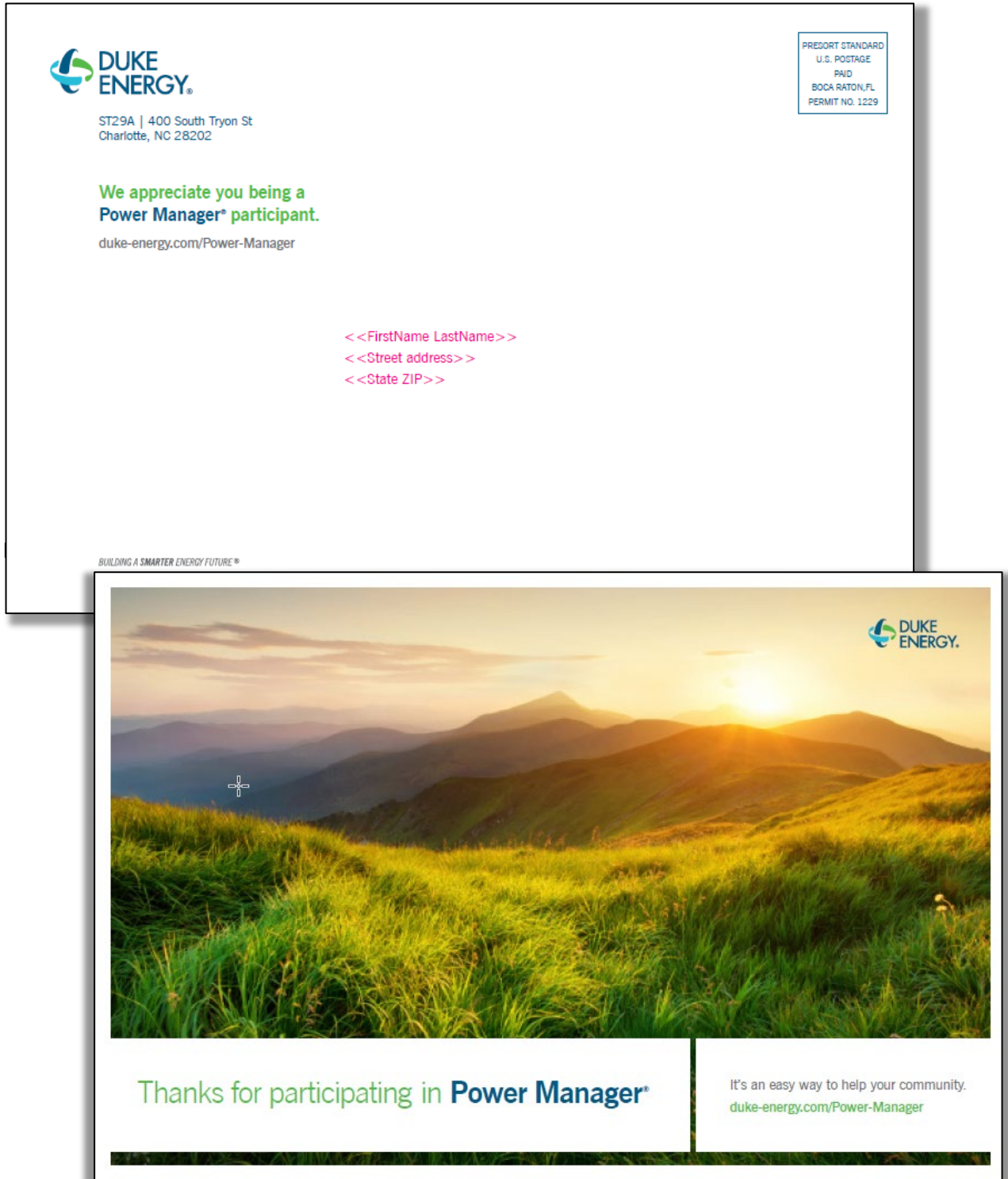
[LEARN MORE](#)

**You must be a Duke Energy residential customer with central electric heating and cooling, have the electric service in your name and have a qualifying internet connected smart thermostat.

Power Manager®

LCD Customers' Season Reminder/Thank You Postcard

Outside




OFFICIAL COPY

Mar 01 2022

Power Manager®


Inside Left Panel

It's nearly summer!
Here are a few Power Manager® reminders.




Your AC's runtime may be reduced on a few select non-holiday weekday afternoons.

In an extremely rare system emergency, Power Manager could be used at any time to turn off your AC to avoid outages.



Tips during an event:

- ✓ Close curtains and blinds to keep the sun and heat out.
- ✓ Don't do activities that produce a lot of heat (cooking, vacuuming, etc.).
- ✓ After an event, don't lower your thermostat setting. Your home won't cool any faster, plus it can lead to extra energy use and a higher bill.



You'll benefit.

You get **\$32** in credits on your summer electric bills. An \$8 credit is applied to your July through October bills.

What's Power Manager?

When energy demand is high, Power Manager may be used to reduce AC load on the electric grid. This decreases the use of less efficient and more expensive energy sources and helps keep energy costs low for everyone.

©2021 Duke Energy Corporation 210733 DED 4/21

Inside Right Panel

Removable Magnet


Thanks for participating in Power Manager®

To find out if an event is planned or underway, call 800.832.3169.




Learn more at duke-energy.com/EnergyEvent

If your device is damaged or disconnected, call us at 888.463.5022 to service it for free.

BUILDING A SMARTER ENERGY FUTURE®



◀ Keep this Power Manager magnet for quick reference.

By participating you help:  Use natural resources wisely.  Delay the need for more power plants.  Keep energy costs low for everyone.

A. Description

The purpose of Duke Energy Carolinas, LLC's (the "Company's" or "DEC") Small Business Energy Saver program (the "Program") is to reduce energy usage through the direct installation of energy efficiency measures within qualifying small non-residential customer facilities. All aspects of the Program are administered by a single Company-authorized vendor. Program measures address major end uses in lighting, refrigeration, and HVAC applications.

Program participants receive a free, no-obligation energy assessment of their facility and a recommendation of energy efficiency measures along with the projected energy savings, costs of all materials and installation, and up-front incentive amount from the Company. If the customer decides to move forward with the proposed project, the customer will make the final determination of which measures will be installed. The vendor then schedules the measure installation by electrical subcontractors at a time convenient for the customer.

The Program is designed as a pay-for-performance offering, meaning that the Company-authorized vendor administering the Program is compensated only for energy savings produced through the installation of energy efficiency measures.

In 2020 a program modification was approved by the NC & SC utility commissions for SmartPath under the Small Business Energy Saver Program. SmartPath is meant to build upon the traditional Small Business Energy Saver Program by minimizing financial barriers to customer participation by allowing customers to finance and implement energy efficiency upgrades at little to no upfront costs to the customer. SmartPath is open to any opted in non-residential Duke Energy customer and is not implemented by one Vendor. The program is implemented by a qualified Trade Ally network who develop proposals and implement the projects on the program's behalf.

Audience

The Program is available to existing non-residential customers that are not opted-out of the Company's Energy Efficiency Rider. Program participants must have an average annual demand of 180 kW or less per active account.

The SmatPath modification to the Program is available to all existing non-residential customers that are not opted-out of the Company's Energy Efficiency Rider. SmartPath is not limited by the 180 kW rule that applies to Small Business Energy Saver.

B & C. Impacts, Participants and ExpensesSmall Business Energy Saver¹

| <i><u>\$ in millions, rounded</u></i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|---------------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$23.8 | \$18.6 | 78% |
| Program Cost | \$11.0 | \$8.9 | 81% |
| MW | 9.4 | 7.0 | 75% |
| MWH | 50,790.4 | 38,560.8 | 76% |
| Units² | 47,000,000 | 35,286,964 | 75% |

1) Values are reflected at the system level.

2) Units reflect gross kWh.

Small Business Energy Saver

OFFICIAL COPY

Mar 01 2022

D. Qualitative Analysis

Highlights

Lime Energy is the Company-authorized vendor administering the SBES Program in both DEC and DEP service areas.

In 2020, the Company and vendor experienced many difficulties as a result of the COVID-19 virus. Some of these difficulties continued into 2021. The Program was restricted from field activities during January due to the increasing COVID-19 cases. As a result of the restrictions in 2020 and January of 2021 the Program finished the first quarter of the year behind in sales and project completions.

Even with the shutdown, customers still showed interest in the Program. We experienced higher than plan participation per salesperson the Program could have in the field, but we also had customers unwilling to act due to the uncertainty of the market due to the impacts of COVID-19. As spread of the COVID-19 virus starts to slowdown and the vaccine distribution increases the uncertainty in the marketplace is resolved, we are starting to see customers willing to move forward with projects. The Program finished the second quarter very close to the quarterly budget.

The Company continues to administer a customer satisfaction survey to Program participants since the Program's launch in DEC. Customers continue to give the Program high scores and generating a positive view of the Company.

Issues

While LED lighting measures are expected to remain the primary driver of kWh savings in the Program for the foreseeable future, the Company has been actively working with our vendor Lime Energy to implement initiatives focused on increasing refrigeration and HVAC measure adoption. With the impacts of COVID, the Program experienced a decline in refrigeration and HVAC measures. Lime Energy kicked off the year with additional training of their sales staff to promote and sale not only the refrigeration and HVAC measures but also the new process measures added.

Potential Changes

SmartPath was approved in late 2020 but did not officially launch until the beginning of Q2 in 2021. Since the launch the program has been well received with over 15 Trade Allies enrolled to offer the program to Duke Energy customers. We have 6 projects enrolled in the program and in various stages in the process. We anticipate tripling that number by the end of 2021 and starting 2022 with a healthy pipeline of projects.

As the Program continues to mature, the Company will continue to evaluate opportunities to add incentivized measures which fit the direct install program model and are suitable for the small business market.

E. Marketing Strategy

The Program is marketed primarily using the following channels:

- Lime Energy field representatives
- Direct mail (letters and postcards to qualifying customers)
- Duke Energy Carolinas website
- Social media and search engine marketing
- Email & Duke Energy Business E-Newsletters
- Direct marketing & outreach via Program administrator
- Outreach via Duke Energy Business Energy Advisors
- Community events

All marketing efforts are designed to create customer awareness of the Program, to educate customers on energy saving opportunities and to emphasize the convenience of Program participation for the target market.

F. Evaluation, Measurement and Verification

Evaluation activities commenced in late 2020, with a completed report in the third quarter of 2021. The EM&V summary was presented at the July 2021 DEC/DEP Collaborative.

The evaluation covered the period from January 2019 through June 2020. The evaluation consisted of virtual verification of measure installations and estimated energy and peak demand savings (both summer and winter) via engineering analysis. The evaluation also assessed the NTG ratio through the use of online customer surveys. In addition, the process evaluation assessed the strengths and weaknesses of current program processes and customer perceptions of the program.

Non-Residential Smart \$aver Prescriptive

A. Description

The Non-Residential Smart \$aver® Prescriptive Program ("Program") provides incentives to Duke Energy Carolinas, LLC's (the "Company's") commercial and industrial customers to install high efficiency equipment. Incentives are provided based on the Company's cost effectiveness modeling to ensure cost effectiveness over the life of the measure.

Commercial and industrial customers can have significant energy consumption but may lack an understanding of the benefits of high efficiency alternatives. The Program provides financial incentives to help reduce the cost differential between standard and high efficiency equipment, offer a quicker return on investment, save money on customers' utility bills so it can be reinvested in their businesses, and foster a cleaner environment. In addition, the Program encourages dealers and distributors (or market providers) to stock and provide these high efficiency alternatives to meet increased demand for the products.

The Program promotes prescriptive incentives for the following technologies – lighting, HVAC, pumps, variable frequency drives, food services, process, and information technology equipment.

Audience

All of the Company's non-residential opt-in customers billed on an eligible Duke Energy Carolinas rate schedule may participate.

B & C. Impacts, Participants and Expenses¹

Non Residential Smart Saver Prescriptive¹

| <i>\$ in millions, rounded</i> | Vintage 2021 | Vintage 2021 | % of |
|--------------------------------|------------------|-----------------------|-------------|
| | As Filed | YTD December 31, 2021 | Target |
| NPV of Avoided Cost | \$100.2 | \$85.3 | 85% |
| Program Cost | \$27.7 | \$23.4 | 85% |
| MW | 29.7 | 24.1 | 81% |
| MWH | 168,713.1 | 141,389.4 | 84% |
| Units | 5,377,147 | 10,141,069 | 189% |

1) Values are reflected at the system level.

D. Qualitative Analysis

Highlights

The Program has developed multiple approaches, including paper and online options for incentive payment applications and instant incentives through the midstream marketing channel and the Online Energy Savings Store, for reaching a broad, diverse audience of business customers. Several 2021 program trends are listed below:

- Customers continue to show interest in energy efficiency; however, the program is still in the midst of a significant decline due to the negative effects of the COVID-19 pandemic on businesses.
- Customers continue to utilize the midstream marketing channel by taking advantage of instant incentives through participating equipment distributors; however, product shortages due to the pandemic have caused energy efficiency project delays.
- Outreach continue to support Trade Allies working with the program, with a mix of virtual and

¹ The information reflects results for the Non-Residential Smart \$aver Prescriptive program in aggregate. Reference the Appendix for results by technology.

Non-Residential Smart \$aver Prescriptive

- phone outreach to Trade Allies, as well as in-person meetings when safe
- A dedicated team of representatives responded to customer questions via phone and email, providing high levels of customer service.

Customers have several options for participating in the Program. The following chart summarizes 2021 total participating customers by Program channel:

| Program Option | Participating Customers* | % 2021 Repeat Customer |
|-----------------------------------|--------------------------|------------------------|
| Paper and Online Application Form | 792 | 62% |
| Midstream Marketing Channel | 2,390 | 55% |
| Online Energy Savings Store | 1,123 | 34% |
| Multifamily Free Channel | 7 | 14% |

*May include multiple facilities/sites for one customer.

**The Multifamily Free Channel was suspended for the majority of 2021 due to COVID-19

PAPER AND ONLINE APPLICATIONS

In 2021, the Company paid incentives for 1,330 applications, consisting of 4,351 measures. Paid application volume was down in 2021 vs. 2020 by 17%. The average payment per paid application was \$7,577.

Customers continue to take advantage of an optional process introduced in 2018 to pre-verify equipment eligibility to have certainty that their selected equipment qualifies for an incentive prior to purchase, which is designed to overcome another barrier that can delay investment in EE projects.

Many Trade Allies participating in the application process reduce the customer's invoice by the amount of the Smart \$aver® Prescriptive incentive and then receive reimbursement from Duke Energy. Customers often prefer this method rather than paying the full equipment cost upfront and receiving an incentive check from Duke Energy.

Duke Energy utilizes an internal database that allows the Program to self-administer Program applications and track program data.

MIDSTREAM MARKETING CHANNEL

The midstream marketing channel provides instant incentives to eligible customers at a participating distributor's point of purchase. Approved midstream distributors validate eligible customers and selected lighting, HVAC, food service and IT products through an online portal and use that information to show customers the reduced price for high efficiency equipment. Upon purchase, the distributor reduces the customer's invoice for the eligible equipment by the amount of the Smart \$aver® Prescriptive incentive. Distributors then provide the sales information to Duke Energy electronically for reimbursement. The incentives offered through the midstream channel are consistent with current program incentive levels.

ONLINE ENERGY SAVINGS STORE

Duke Energy also offers the Business Savings Store on the Duke Energy website, with orders fulfilled by a third-party vendor. The site provides customers the opportunity to take advantage of a limited number of incentivized measures by purchasing qualified products from an online store and receiving an instant incentive in the form of a reduced purchase price. The incentives offered in the online store are consistent with current program incentive levels.

MULTIFAMILY COMMON AREA FREE MEASURES

In order to grow the number of accounts participating in EE, particularly in market segments where knowledge of EE is limited, the Program is now collaborating with the Residential Multifamily Direct Install program to offer free low-cost measures to multifamily common areas as well as tenant spaces. Multifamily properties that are being approached by the Residential Multifamily program's vendor, Franklin Energy, are now eligible to add on limited quantities of common area measures. The common area must

Non-Residential Smart \$aver Prescriptive

be on an eligible commercial rate to participate. Measures such as LED screw-in lamps, LED exit signs, low flow shower heads, faucet aerators and pipe insulation are now being installed where possible in multifamily common areas as well as in residential spaces. For those properties that accept the measures, Franklin Energy will directly install them in the common areas when they are on site for the residential installations. Franklin Energy tracks the measures installed by property, as well as total installations and reports this information to the Smart \$aver program team. This channel remained suspended along with the Residential Multifamily Direct Install program for the majority of 2021 due to COVID-19.

TRADE ALLY MANAGEMENT

Over the years, the Program has worked closely with Trade Allies to promote the program to our business customers at the critical point in time when customers are considering standard or high efficiency equipment options. The Smart \$aver® outreach team builds and maintains relationships with Trade Allies in and around Duke Energy's service territory. Existing relationships continue to be cultivated while recruitment of new Trade Allies also remains a focus. In-person Trade Ally outreach activities were scaled back in 2021, however the Smart \$aver® outreach team continued to provide support to Trade Allies virtually and via phone & email correspondence.

The Trade Ally outreach team educates Trade Allies on the program rules and the Smart \$aver Program expectations for Trade Ally conduct. The Company continues to look for ways to engage the Trade Allies in promotion of the Program and to target Trade Allies based on market opportunities.

Issues

The primary issues that faced the program in 2021 were all related to responding and adapting to the new reality after the onset of the COVID-19 pandemic in 2020. Program participation experienced a sharp decline in mid-2020 and remained suppressed in 2021. Fortunately, very few program activities require face-to-face contact, so the Smart \$aver® team is able to continue processing incentive applications and administering the program while working from home.

Potential Changes

Standards continue to change and new, more efficient technologies continue to emerge in the market. Duke Energy periodically reviews major changes to baselines, standards, and the market for equipment that qualifies for existing measures and explores opportunities to add measures to the approved Program for a broader suite of options.

Duke Energy is also considering new and innovative ways to reach out to customer segments that have had a lower rate of prescriptive incentive applications and considering options to partner with other Duke Energy EE programs to cover gaps in the market and ultimately, make it easier for customers to participate in Smart \$aver incentives. Also, the Duke program team would like to drive deeper customer savings and increase participation in technologies beyond lighting.

E. Marketing Strategy

The marketing plan for 2021 included direct marketing such as email and direct mail, online marketing, print marketing and supporting partnerships.

The internal marketing channel consists of assigned Large Business Account Managers, small and medium Business Energy Advisors, and Local Government and Community Relations, who all identify potential opportunities as well as distribute program informational material to customers and Trade Allies. Duke Energy has Business Energy Advisors in the Carolinas area to perform outreach to unassigned small and medium business customers. The Business Energy Advisors follow up on customer leads, assist with program questions, and steer customers who are not already working with a trade ally to the trade ally search tool. In addition, the Business Energy Advisors contact customers with revenue between \$60,000 and \$250,000 to promote the Smart \$aver® programs. The Economic and Business

Non-Residential Smart \$aver Prescriptive

Development groups also provide a channel to customers who are new to the service territory.

F. Evaluation, Measurement and Verification

A combined DEC/DEP evaluation is currently underway. The evaluation will consist of an impact evaluation and a limited process evaluation. Impacts will be determined from a mix of activities, including deemed savings, engineering desk reviews, participant surveys to refine input parameters, and onsite visits with a sample of main channel and midstream channel participants. NTG will be established through surveys with participants and trade allies.

The evaluation is scheduled to be completed in the third quarter of 2022.

G. Appendix

Non Residential Smart Saver Energy Efficient HVAC Products¹

| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|--------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$2.4 | \$14.9 | 629% |
| Program Cost | \$1.7 | \$4.9 | 283% |
| MW | 1.1 | 3.3 | 297% |
| MWH | 3,698.3 | 21,055.0 | 569% |
| Units | 3,097,102 | 6,874,382 | 222% |

1) Values are reflected at the system level.

Non Residential Smart Saver Energy Efficient Lighting Products¹

| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|--------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$94.7 | \$69.0 | 73% |
| Program Cost | \$24.3 | \$17.9 | 74% |
| MW | 27.8 | 20.3 | 73% |
| MWH | 156,866.5 | 116,784.5 | 74% |
| Units | 2,242,099 | 3,253,789 | 145% |

1) Values are reflected at the system level.

Non Residential Smart Saver Energy Efficient Food Service Products¹

| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|--------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$1.4 | \$0.5 | 34% |
| Program Cost | \$1.1 | \$0.2 | 19% |
| MW | 0.2 | 0.1 | 38% |
| MWH | 4,280.5 | 1,201.4 | 28% |
| Units | 15,727 | 1,601 | 10% |

1) Values are reflected at the system level.

Non-Residential Smart \$aver Prescriptive

Non Residential Energy Efficient Pumps and Drives Products¹

| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|--------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$1.2 | \$0.7 | 54% |
| Program Cost | \$0.4 | \$0.2 | 48% |
| MW | 0.4 | 0.2 | 56% |
| MWH | 2,717.4 | 1,521.3 | 56% |
| Units | 2,575 | 1,048 | 41% |

1) Values are reflected at the system level.

Non Residential Energy Efficient ITEE¹

| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|--------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$0.0 | \$0.0 | 1% |
| Program Cost | \$0.0 | \$0.1 | 158% |
| MW | 0.0 | 0.0 | - |
| MWH | 272.4 | 2.4 | 1% |
| Units | 4,323 | 28 | 1% |

1) Values are reflected at the system level.

Non Residential Energy Efficient Process Equipment Products¹

| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|--------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$0.4 | \$0.3 | 67% |
| Program Cost | \$0.1 | \$0.1 | 75% |
| MW | 0.2 | 0.1 | 63% |
| MWH | 878.0 | 824.8 | 94% |
| Units | 15,321 | 10,222 | 67% |

1) Values are reflected at the system level.

Non-Residential Smart Saver® Custom Assessment

A. Description

Duke Energy Carolinas, LLC's (the "Company's") Non-Residential Smart Saver® Custom Assessment (the "Program") offers financial assistance to qualifying commercial, industrial, and institutional customers to help fund an energy assessment and retro-commissioning design assistance in order to identify energy efficiency conservation measures of existing or new buildings or systems. The detailed study and subsequent list of suggested energy efficiency measures help customers to utilize the Non-Residential Smart Saver® Custom. The Program delivers a detailed energy report that includes the technical data needed for the Non-Residential Smart Saver® Custom Program and assistance with the Non-Residential Smart Saver® Application. All kWh and kW savings identified from measures implemented as a result of the pre-qualified assessments are attributed to Smart Saver Custom Program.

The intent of the Program is to encourage energy efficiency projects that would not otherwise be completed without the Company's technical and financial assistance. The Program's application requires pre-qualification for eligibility. Assessments are performed by a professional engineering firm pre-selected and contracted by the Company. The current engineering is Willdan.

The program was modified in 2017 to allow customers to choose one of the firms the Company contracted or to seek third party engineering assistance of their own selection and receive the same financial assistance. Pre-established criteria ensuring that the Program maintains high standards for engineering and work quality must be met for the funds to be released. This modification, which provided customers with more flexibility and choices, is expected to drive an increase in participation.

In 2019, the program again modified its approach again by utilizing a "virtual" approach to the assessment. Using energy modeling software called NEO from Willdan and collecting all building information remotely will allow the audit to be completed in 2-3 weeks for less cost. Each audit has a fixed cost of \$5,000 which is covered 100% by the program. In 2020, the program was expanded to include buildings with process loads such as manufacturers. Program parameters are a focus on customers with a minimum demand of 180 kW with those below being serviced by Small Business Energy Saver®. The goal of the program is to perform 20-30 assessments annually.

Audience

Pre-qualified non-residential electric customers, except those that choose to opt out of the Program, are eligible.

B & C. Impacts, Participants and Expenses

Non Residential Smart Saver Custom Technical Assessments¹

| <i><u>\$ in millions, rounded</u></i> | Vintage 2021 As Filed | Vintage 2021 YTD June 30, 2021 | % of Target |
|---------------------------------------|--------------------------|-----------------------------------|----------------|
| NPV of Avoided Cost | \$2.8 | \$0.0 | 0% |
| Program Cost | \$1.1 | \$0.5 | 44% |
| MW | 0.6 | 0.0 | 0% |
| MWH | 5,482.4 | 0.0 | 0% |
| Units | 3,492 | 0 | 0% |

1) Values are reflected at the system level.

D. Qualitative Analysis

Highlights

Participation in the first half of 2021 included 18 customers completing an application for an energy assessment. Of these, 11 assessments were completed while 6 customers thus far have selected projects to pursue resulting in a Smart Saver Custom application.

Non-Residential Smart \$aver® Custom Assessment

E. Marketing Strategy

The marketing strategy for the Program is to work with those customers that need technical and financial assistance as a companion to their internal resources. Given the facility-wide approach, many of the energy savings opportunities are complex and interactive in nature which fits well with the end-to-end involvement utilized in the Program. Typical customer marketing activity involves direct marketing from Business Account Managers, electronic postcards, e-mails, and information attained through the Company's website and direct customer inquiries. Marketing in the future may shift as the virtual modeling software becomes more applicable. The opportunity to receive a quick readout of a building's efficiency level for a nominal cost will be a compelling message to Duke Energy customers.

F. Evaluation Measurement and Verification

No evaluation activities are planned for 2021.

Non-Residential Smart Saver® Custom

A. Description

Duke Energy Carolinas, LLC's (the "Company's") Non-Residential Smart Saver® Custom Incentives (the "Program") offers financial assistance to qualifying commercial, industrial and institutional customers (that have not opted-out) to enhance their ability to install cost-effective electrical energy efficiency projects.

The Program is designed to meet the needs of the Company's customers with electrical energy saving projects involving more complicated or alternative technologies, or with measures not covered by the Non-Residential Smart Saver Prescriptive Program. The intent of the Program is to encourage energy efficiency projects that would not otherwise be completed without the Company's technical or financial assistance.

Unlike the Non-Residential Smart Saver Prescriptive Program, the Program requires pre-approval prior to the project initiation. Proposed energy efficiency measures may be eligible for customer incentives if they clearly reduce electrical consumption and/or demand.

The two approaches for applying for incentives for this Program are Classic Custom and Smart Saver Tools. Each approach has a method by which energy savings are calculated, but the documents required as part of the application process vary slightly between the two.

Currently the application forms listed below are located on the Company's website under the Smart Saver® Incentives (Business and Large Business tabs).

- Custom Application, offered in word and pdf format.
- Calculation Assistance
 - Third party assistance with completing application and collecting necessary documentation
- Energy savings calculation support:
 - Classic Custom excel spreadsheet approach (> 700,000 kWh or no applicable Smart Saver Tool)
 - Lighting worksheet (excel)
 - Variable Speed Drive (VFD) worksheet (excel)
 - Compressed Air worksheet (excel)
 - Energy Management System (EMS) worksheet (excel)
 - General worksheet (excel), to be used for projects not addressed by or not easily submitted using one of the other worksheets
 - Smart Saver Tools approach (< 700,000 kWh)
 - HVAC & Energy Management Systems
 - Lighting (no project size limit)
 - Process VFDs
 - Compressed Air
 - Calculation Assistance
 - Third-party calculation generation for a fixed fee based on technology type

The Company contracts with AESC to perform technical review of applications. All other program implementation and analysis is performed by Duke Energy employees or direct contractors.

Audience

All of the Company's non-residential electric accounts billed on eligible rate schedules, except those that choose to opt-out of the Program, are eligible.

Non-Residential Smart Saver® Custom

B & C. Impacts, Participants and Expenses

Non Residential Smart Saver Custom¹

| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|--------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$29.2 | \$19.3 | 66% |
| Program Cost | \$10.2 | \$7.5 | 74% |
| MW | 7.6 | 6.6 | 87% |
| MWH | 53,115.8 | 30,798.5 | 58% |
| Units | 36,316 | 8,395 | 23% |

1) Values are reflected at the system level.

D. Qualitative Analysis

Highlights

Customers continue to identify energy efficiency opportunities eligible for incentives under this Program. In the first half of 2021, 83 new pre-approval applications were submitted, of which 34 were new construction projects. Additionally, 50 projects were enrolled in new construction which precedes a Smart Saver Custom application.

Smart Saver Custom Incentives program uses a flat rate incentive for both energy and demand savings.

Efforts to educate trade allies and vendors who sell energy efficient equipment have been very successful. In many cases, vendors will submit the paperwork for the customer, eliminating a barrier for customers that do not have the resources to devote to completing the application.

The Program launched a fast track option for 2017 which gives customers the ability to pay a fee to speed up their application processing time to seven business days. This fee is passed through to the vendor for its cost to expedite the application.

As of the end of 2019, Custom-to-Go was retired and replaced with the Smart Saver Tool. For the lighting tool only, the customer can submit one file for both Prescriptive and Custom reducing some of the customer's administrative burden.

In 2021, Application and Calculation Assistance were added. Application Assistance provides third party application completion. Calculation Assistance provides third party calculation generation. Both services are provided at a fixed cost to the customer based on application type and technology type.

Issues

The Program application process is considered burdensome by some customers due to the individual and technically intensive review required for all projects applying for a custom incentive. Each year, Program staff explores ways to reduce the length of the application. By streamlining processes, the average processing time has dipped to 20 days for all states/jurisdictions.

The technical review often requires customers (or their vendors) to quantify the projected energy savings from the proposed project. This process can be lengthy and may require some level of engineering expertise. Where necessary, this requirement will continue, thus ensuring that incentives are being paid for cost-effective verifiable efficiency gains. Indications are that the Smart Saver Tools and online application portal have relieved some of this burden.

Non-Residential Smart Saver® Custom

The custom program is subject to large fluctuations in performance due to the importance of a small number of large projects. Although the number of small projects is significant compared to the number of large projects, the large projects drive the majority of annual impacts.

The custom program is still limited by customers who are opted out of the EE Rider. Those customers who are opted out are not eligible to participate and any projects completed by those customers are lost opportunities. The custom program is actively working with internal resources (large account managers and Business Energy Advisors) to determine if opting in to the EE Rider for a potential project is the best option for customers currently opted out.

Finally, the custom program continues to see changes in available technologies as specific measures become eligible for Smart Saver Prescriptive.

Potential Changes

The Custom program continues to evaluate additional improvements to enhance participation, processing speed and program efficiency.

E. Marketing Strategy

The Company will continue the Program marketing efforts in 2020 through various marketing channels that include but are not limited to the following:

- Direct mail (letters and postcards to qualifying customers)
- Duke Energy website
- Community outreach events
- Small Business Group outreach events
- Paid advertising/mass media
- Social media promotions
- Trade ally outreach
- Account managers
- Business Energy Advisors

These marketing efforts are designed to create customer awareness of the Program, to educate customers on energy saving opportunities, and to emphasize the convenience of Program participation.

Non-residential customers learn of programs via targeted marketing material and communications. Information about incentives is also distributed to trade allies who sell equipment and services to all sizes of nonresidential customers. Large business or assigned accounts are targeted primarily through Company account managers. Unassigned small to medium business customers are supported by the Company's Business Energy Advisors. The Business Energy Advisors follow up on customer leads, assist with program questions, and steer customers who are not already working with a trade ally to the trade ally search tool. In addition, the Business Energy Advisors promote the program to customers with electrical costs between \$60,000 and \$250,000.

The internal marketing channel consists of Large Business Account Managers and Local Government and Community Relations who all identify potential opportunities as well as distribute program informational material to customers and trade allies. In addition, the Economic and Business Development groups also provide a channel to customers who are new to the service territory.

The Program launched a new marketing channel in 2017 called New Construction Energy Efficiency Design Assistance (NCEEDA) to identify energy efficiency projects for customers currently underserved in the SMB market. This channel will utilize the vendor Willdan Energy Solutions to help identify those opportunities, complete savings calculations, and submit applications for the customer. As of January 24, 2020, DEC has 233 active and completed enrolled projects in the NCEEDA offering, representing 32.3

Non-Residential Smart \$aver® Custom

million square feet of area. Of these, the 187 Smart \$aver Custom project applications represent 64.8 million kWh of energy savings.

F. Evaluation, Measurement and Verification

DEC Non-Residential Custom evaluation activities, combined with DEP, are currently underway with a final report planned for Fourth Quarter 2021.

Non-Residential Smart \$aver® Performance Incentive

A. Description

Duke Energy Carolinas, LLC's (the "Company's") Non-Residential Smart \$aver® Performance Incentives (the "Program") offers financial assistance to qualifying commercial, industrial and institutional customers (that have not opted-out) to enhance their ability to install cost-effective electrical energy efficiency projects.

The Program is designed to encourage the installation of high efficiency equipment in new and existing nonresidential establishments as well as the performance of efficiency-related repair activities designed to maintain or enhance efficiency levels in currently installed equipment. The Program provides incentive payments to offset a portion of the higher cost of energy efficient installations that are not eligible under either the Smart \$aver® Prescriptive or Custom programs. The types of measures covered by the Program include projects with some combination of unknown building conditions or system constraints or uncertain operating, occupancy, or production schedules. The specific type of measures are agreed upon with the Customer. The Program is delivered in close coordination with the existing Custom program team and shares resources for administrative review and payment processing. The Program requires pre-approval prior to project initiation.

The intent of the Program is to broaden participation in the Company's non-residential efficiency programs by providing incentives for projects that previously were deemed too unreliable to calculate an acceptably accurate savings amount predictively and, therefore, were not offered incentives. The program is also expected to provide a platform for gaining a better understanding of new technologies.

The key difference between the Performance Incentive Program and the Custom Program is that the customers in the Performance Incentive Program are paid incentives based on actual measured performance. For each project, a plan is developed to verify the actual performance of the project once completed and is the basis for the performance portion of the incentive.

The Program incentives will typically be paid out in the following manner, though payment installment quantities and timing may vary:

- Incentive #1: For the portion of savings that are expected to be achieved with a high degree of confidence, an initial incentive will be paid. This incentive is paid once installation is complete.
- Incentive #2: After performance is measured and verified, the performance-based part of the incentive will be paid out as follows:
 - If performance exceeds expectations, the incentive payout may be larger.
 - If performance does not meet expectations, the incentive payout may be smaller.

Application forms for applying for incentives are located on the Company's website.

The Company contracts with Alternative Energy Systems Consulting, Inc. (AESC) to perform technical review of applications. All other program implementation is performed by Duke Energy employees or direct contractors.

Audience

All of the Company's non-residential electric accounts billed on eligible rate schedules, except those that choose to opt-out of the Program, are eligible.

Non-Residential Smart \$aver® Performance Incentive

B & C. Impacts, Participants and Expenses

Non Residential Smart Saver Performance Incentive¹

| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|--------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$7.1 | \$4.2 | 60% |
| Program Cost | \$2.4 | \$0.3 | 14% |
| MW | 1.7 | 1.1 | 63% |
| MWH | 14,901.6 | 8,247.4 | 55% |
| Units | 17,758,407 | 50 | 0% |

1) Values are reflected at the system level.

D. Qualitative Analysis

Highlights

As new technologies are introduced and changes occur in the energy efficiency marketplace, performance incentives are the perfect tool to influence and reward customers who invest in energy efficiency. The Smart \$aver Performance Incentives program was launched on January 1, 2017. Efforts to encourage internal resources, trade allies and vendors who sell energy efficient equipment to promote the Program and assist customers to participate are continuous and on-going. In addition, the Program is marketed closely with the Smart \$aver Custom Program.

In the first half of 2021, the program received 7 new applications.

The program experiences large fluctuations in performance due to long project lead times, long monitoring and verification times, and the timing and sizes of projects. With a compelling value proposition and internal resources and trade allies getting comfortable with this unique program offering, participation is expected to continue to be strong.

The program is now able to offer both top and bottom cycle CHP to customers.

Issues

Program management is monitoring a few areas.

- The preferred method for measurement and verification of performance is gathering, monitoring and analyzing customer billing history. However, energy savings are not significant enough at times to evaluate effectively through the review of billing information. If this is the case, sub-metering is required at the customer's expense and may be a hurdle due to the time and expense of monitoring and verifying savings.
- The Performance program cannot be offered to customers who are opted out of the EE Rider. Performance projects can easily carryover into multiple calendar years because of the monitoring and verification requirement, a situation which could make opting in more difficult to justify.
- Sometimes project M&V can span multiple years thus requiring a customer to be opted-in for multiple years. This is often not preferred, and we are beginning to see customers forfeit a portion of their project incentive to opt-out of the rider.
- Customers may not participate because of the risk of measured energy savings being less than expected and resulting in a smaller incentive payout.
- The program is having difficulty in finding cost effective projects. Typical Performance project with

Non-Residential Smart \$aver® Performance Incentive

uncertainty in savings have been controls related, where savings are determined based on the part-load characteristics of the measure or system optimization. These types of projects typically have the following characteristics which makes costs-effectiveness challenging:

- High first costs
- Little demand savings – low avoided costs
- Low measure life

The program will continue to evaluate projects on a case by case basis to ensure cost effective projects are incentivized.

Potential Changes

The Company continuously considers functional improvements to enhance participation, processing speed and program efficiency.

E. Marketing Strategy

The 2020 marketing strategy for the Smart \$aver Performance Incentive Program closely aligns with the Custom Program. The goal is to educate the Company's non-residential customers about the technologies incentivized through both programs, as well as the benefits of installing energy-efficient equipment. These efforts encompass a multi-channel approach including but not limited to the following:

- Email (targeted customers)
- Direct Mail (letters to qualified/targeted customers)
- Duke Energy Carolinas website
- Community outreach events
- Print advertising/mass media
- Target customer outreach
- Industry Associations
- Large Account Managers
- Business Energy Advisors
- Trade Ally Outreach

Marketing efforts are designed to create customer awareness of the Program, to educate customers on opportunities to save energy, and to emphasize the convenience of Program participation.

Non-residential customers learn of programs via targeted marketing material and communications. Information about incentives is also distributed to trade allies who sell equipment and services to all sizes of nonresidential customers. Large business or assigned accounts are targeted primarily through Company account managers. Unassigned small to medium business customers are supported by the Company's Business Energy Advisors. The Business Energy Advisors follow up on customer leads, assist with program questions, and steer customers who are not already working with a trade ally to the trade ally search tool. In addition, the Business Energy Advisors contact customers with electrical costs between \$60,000 and \$250,000 to promote the program.

The internal marketing channel consists of Large Business Account Managers, Business Energy Advisors, and Local Government and Community Relations who all identify potential opportunities as well as distribute program informational material to customers and trade allies. In addition, the Economic and Business Development groups also provide a channel to customers who are new to the service territory.

F. Evaluation, Measurement and Verification

Non-Residential Smart \$aver® Performance Incentive

No evaluation activities are planned for 2021. Future evaluation timing will depend upon sufficient participation.

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A. Description

PowerShare® ("Program") is a demand response program offered to commercial and industrial customers. The Program is comprised of Mandatory ("PS-M"), Generator ("PS-G"), and Voluntary ("PS-V") options, and customers can choose from a variety of offers. Under PS-M and PS-G, customers receive capacity credits for their willingness to shed load during times of peak system usage. Energy credits are also available for participation (shedding load) during curtailment events. The notice to curtail under these offers can be rather short (15-30 minutes), although every effort is made to provide as much advance notification as possible. Failure to comply during an event could result in penalties.

Audience

The Program is offered to Duke Energy Carolinas, LLC's (the "Company's") non-residential customers who have not opted-out and are able to meet the load shedding requirements.

B & C. Impacts, Participants and Expenses

PowerShare¹

| <i>\$ in millions, rounded</i> | Vintage 2021 As Filed | Vintage 2021 YTD December 31, 2021 | % of Target |
|--------------------------------|--------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$43.5 | \$42.3 | 97% |
| Program Cost | \$13.7 | \$13.6 | 99% |
| MW ² | 344.5 | 337.7 | 98% |
| MWH | 0.0 | N/A | - |
| Units ³ | 324,287 | 317,887 | 98% |

Notes on Tables:

- 1) Values are reflected at the system level.
- 2) MW capability derived by taking average over specific PowerShare contract periods. At month-end December 2021, we had the ability to shed 317.9 MW (at the plant), representing 98% of the as filed capacity.
- 3) Units included in filing represented KW at meter, rather than number of participants.

D. Qualitative Analysis**Highlights**

PS-M and PS-G continue to be well received by customers who have the flexibility to curtail load upon request in both North Carolina and South Carolina. The addition of new participants and a return of customer loads close to pre-pandemic levels resulted in a year-end PowerShare capability of 338MW.

There were no PowerShare curtailment events in 2021.

Issues

No current issues.

Potential Changes

No changes anticipated at this time.

E. Marketing Strategy

To date, marketing efforts for the Program have focused on the relationship between the Company's account executives and their assigned customers. As part of their normal contact with customers, the account executives introduce the Program, including any new options/offers, while explaining the value

proposition to the customer. Account executives share in-house analytics that show the incentives for each offer as applied to the customer's specific load profile and provide marketing collateral to explain the details of all the Program offers.

F. Evaluation, Measurement and Verification

Planning for the PY 2020/2021 evaluation began late 2020. The evaluation will estimate verified demand (kW) impacts using a baseline testing approach (including regression-based and customer baseline, or, CBL) for the period June 1, 2020 through May 31, 2021, with a tentative final report in the fourth quarter of 2021. These impacts will include:

- a. Average kW demand impact per customer for each event, and on average across all events
- b. Total program kW demand impact for each event, and on average across all events

Note this evaluation is subject to events occurring during this time period. Guidehouse did not perform an evaluation for the 2019-2020 season, since no events occurred.

A. Description

Duke Energy Carolinas, LLC's (the "Company's" or "DEC") EnergyWise Business (the "Program") is an energy efficiency and demand response program for non-residential customers that allows the Company to reduce the operation of participants' air conditioning units to help manage the power grid. The Program provides customers with options for how they would like to participate. In exchange for participation, the Company applies an annual incentive directly to their bills.

For each air conditioning or heat pump unit that they have, Program participants can choose between a Wi-Fi thermostat or a load control switch professionally installed for free by the Program. In addition to choosing the equipment, participants also choose the cycling level at which they participate—30%, 50% or 75%. The levels represent the percentage of the normal on/off cycle of the unit that is reduced. During a conservation period, Company sends a signal to the thermostat or switch to reduce the amount of time a unit is on by the percentage the participant selected. For participating at the 30% level the customer receives a \$50 annual bill credit for each unit, \$85 for 50% cycling, and \$135 for 75% cycling. Finally, participants that have a heat pump unit with electric resistance emergency/back up heat and choose the thermostat can also participate in a winter option that allows the Company to control the emergency/back up heat. For 100% control of the emergency/back up heat, the Company provides an additional \$25 annual bill credit.

Participants choosing the thermostat are given access to a portal that allows them to control their units from anywhere they have internet access. They can set schedules, adjust the temperature set points and receive energy conservation tips and communications from the Company. In addition to the portal access, participants also receive conservation period notifications. Notifications allow participants to make adjustments to their schedules or notify their employees of the upcoming conservation period. Participants are allowed to override two conservation periods per year either before or during the conservation period.

Audience

The Program is available to existing non-residential customers that are not opted-out of the DSM portion of the Company's EE/DSM rider, Rider DSM; have at least one air conditioner or heat pump that operates to maintain a conditioned space on weekdays during the calendar months of May through September; and are not served under Schedules BC and HP, Riders NM, SCG, IS, PS or PSC. Also, customers must have an average minimum usage of 1,000 kWh during those same calendar months.

B & C. Impacts, Participants and Expenses

EnergyWise for Business¹

| <i><u>\$ in millions, rounded</u></i> | Vintage 2021 As Filed ³ | Vintage 2021 YTD December 31, 2021 | % of Target |
|---------------------------------------|---------------------------------------|---------------------------------------|----------------|
| NPV of Avoided Cost | \$3.5 | \$2.0 | 56% |
| Program Cost | \$6.0 | \$2.5 | 41% |
| MW | 20.8 | 11.2 | 54% |
| MWH | 2,557.6 | 1,436.4 | 56% |
| Units² | 23,266 | 13,272 | 57% |

1) Values are reflected at the system level.

2) Units represent average monthly kW at meter for demand response measures (11,954), plus individual participants for smart thermostat energy efficiency measure (1,318).

D. Qualitative Analysis

Highlights

During the first half of 2021, the Program was impacted by shutdowns due to COVID-19. The program was shutdown at the end of 2020 through January of 2021. These shutdowns reduced the number of install workorders in our backlog and prevented installs in January. Things improved over the first half of the year and the backlogs are returning to a healthy level.

During the 2020 shutdown and phased restart, the Program reduced the number of installers and canvassers. Currently the Program has 40% of the staff we had at the beginning of 2020. The staffing levels will stay at this level to only replace lost capacity as the Program moves to a maintenance mode and only replaced lost capacity.

Issues

With the program struggling with cost effectiveness, and the change in DEC from a summer peaking utility to mostly winter peaking, the program is going to move to a maintenance mode. We have negotiated price reductions with our vendor that will improve the cost effectiveness and allow the program to maintain its current capacity levels.

Potential Changes

The Company is investigating a new Program or Program options that will focus on winter peaking capacity and other end use technologies in addition to the HVAC units.

E. Marketing Strategy

In 2021 the Program continued the efforts of door-to-door marketing using a dedicated canvassing vendor. In addition to canvassing, the Program targets slightly larger and multi-location customers through Duke Energy's Business Energy Advisors.

F. Evaluation, Measurement and Verification

The evaluation for the Smart Thermostat (EE) measure for the period of January 2018 – February 2019 was completed in February 2021 and presented at the July 2021 DEC/DEP Collaborative. Impacts for the demand response portion (Summer 2021) for the program has subsequently begun with a final DR report scheduled for 2PndP Quarter 2022.

Duke Energy Carolinas, LLC
Estimate - January 1, 2023 - December 31, 2023
Docket Number E-7, Sub 1265
Projected Program/Portfolio Cost Effectiveness - Vintage 2023

| Program | UCT | TRC | RIM | PCT |
|--|-------------|-------------|-------------|-------------|
| Residential Programs | | | | |
| • Energy Education Program for Schools | 1.31 | 1.35 | 0.33 | 15.97 |
| • Energy Efficient Appliances & Devices | 2.69 | 2.64 | 0.71 | 6.04 |
| • Residential – Smart \$aver Energy Efficiency Program | 1.26 | 1.04 | 0.70 | 1.69 |
| • Income-Qualified EE Products & Services | 0.81 | 0.81 | 0.51 | 2.13 |
| • Multi-Family EE Products & Services | 3.59 | 3.54 | 0.77 | 9.41 |
| • My Home Energy Report | 3.59 | 3.59 | 0.85 | 0.00 |
| • Power Manager | 4.45 | 9.28 | 4.45 | 0.00 |
| • Residential Energy Assessments | 1.57 | 1.52 | 0.52 | 21.92 |
| • Residential New Construction | 2.09 | 1.48 | 0.80 | 2.36 |
| Residential Total | 2.70 | 2.84 | 1.07 | 5.00 |
| Non-Residential Programs | | | | |
| • Custom Assessment & Incentive | 2.07 | 1.16 | 0.83 | 2.07 |
| • EnergyWise for Business | 1.42 | 2.79 | 1.23 | 69.03 |
| • Food Service Products | 2.91 | 0.66 | 0.71 | 1.31 |
| • HVAC | 3.66 | 2.26 | 0.70 | 4.37 |
| • Lighting | 4.55 | 2.46 | 0.91 | 4.03 |
| • Motors, Pumps & VFDs | 2.64 | 1.88 | 0.75 | 3.67 |
| • Non Res Information Technology | 0.38 | 0.35 | 0.23 | 5.23 |
| • Process Equipment | 2.86 | 2.21 | 0.81 | 3.94 |
| • Performance Incentive | 4.54 | 1.27 | 0.98 | 1.85 |
| • Small Business Energy Saver | 3.23 | 1.93 | 0.98 | 2.88 |
| • PowerShare | 4.61 | 170.67 | 4.61 | 0.00 |
| Non-Residential Total | 3.82 | 2.56 | 1.07 | 3.49 |
| Overall Portfolio Total | 3.25 | 2.67 | 1.07 | 3.96 |

Duke Energy Carolinas
Changes to DSM/EE Cost Recovery Vintage 2021 True Up January 1, 2021 - December 31, 2021
Changes from Prior Filing Due to Application of EMBV and Participation
System Ineff and C&I Impacts Not True Below as the PlantExams Exhibit B
Docket No. E-7, Sub 1265

Residential Programs

| Residential Programs | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Overall Variance | | E-7 Sub 1265 | | E-7 Sub 1265 | | Delta | Variance attributable to Participation | | Variance attributable to Mix of Measures | | Variance attributable to EMBV | | Sum of Variances | |
|--|----------------------------------|---------|-------------|---------|----------------------------------|-----------|------|-----------|------------------|----------|--------------|---------|--------------|-----------|-----------|--|--------------|---|------|----------------------------------|------|------------------|--|
| | kWh | | kW | | kWh | | kW | | kWh | | kW | | kWh | | | kW | | kWh | | kW | | | |
| | 2019 | 2020 | 2019 | 2020 | 2019 | 2020 | 2019 | 2020 | 2019 | 2020 | 2019 | 2020 | 2019 | 2020 | | 2019 | 2020 | 2019 | 2020 | 2019 | 2020 | | |
| Program Name | | | | | | | | | | | | | | | | | | | | | | | |
| Energy Efficiency Education Program for Schools | 7,951,667 | 997 | 7,913,162 | (1,192) | (138,405) | (2,188) | | 29,354 | 13,894 | (15,408) | (4,187,945) | (525) | - | 3,248,540 | (1,863) | (938,405) | (2,188) | | | | | | |
| Energy Efficient Appliances and Devices | 16,621,851 | 9,790 | 16,700,635 | 8,811 | (4,931,216) | (977) | | 1,563,048 | 2,404,863 | 866,915 | (8,842,097) | (1,038) | 3,661,861 | 1,107 | 258,950 | (1,862) | (4,931,216) | (977) | | | | | |
| Residential - Smart Saver Energy Efficiency Program | 5,570,374 | 1,347 | 9,426,675 | 2,656 | 3,855,301 | 1,309 | | 14,545 | 28,242 | 13,687 | 3,855,301 | 1,309 | - | 0 | 3,855,301 | 1,309 | | | | | | | |
| Income Qualified Energy Efficiency and Weatherization Assistance | 8,975,504 | 1,635 | 2,546,887 | 493 | (6,412,613) | (1,142) | | 12,314 | 2,217 | (8,837) | (6,536,513) | (1,397) | 161,900 | 221 | (87,921) | (7) | (6,412,613) | (1,142) | | | | | |
| Multi-Family Energy Efficiency | 28,264,645 | 2,983 | 2,019,667 | 279 | (26,244,978) | (2,704) | | 523,776 | 44,142 | (47,234) | (26,100,288) | (2,741) | 192,724 | 41 | (137,411) | (1) | (26,244,978) | (2,704) | | | | | |
| Energy Assessments | 14,921,390 | 1,778 | 6,390,051 | 748 | (8,130,499) | (1,030) | | 126,176 | 33,368 | (9,207) | (8,130,543) | (1,030) | - | - | 0 | (8,130,499) | (1,030) | | | | | | |
| My Home Energy Report | 342,366,893 | 84,985 | 336,292,411 | 91,380 | (5,868,492) | (1,405) | | 1,408,963 | 1,376,708 | (32,255) | (5,868,392) | (1,405) | - | - | 0 | (5,868,392) | (1,405) | | | | | | |
| PowerManager | | | | | | | | | | | | | | | | | | | | | | | |
| Residential Programs Total | 464,468,115 | 772,505 | 433,588,383 | 551,741 | (48,879,752) | (220,764) | | 4,298,897 | 4,146,108 | (47,228) | (55,980,406) | 466,149 | 4,016,485 | (155,188) | 3,084,369 | (495,711) | (48,879,752) | (220,764) | | | | | |

Non-Residential Programs

| Program Name | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | | | Filed in Docket E-7, Sub 1265 | | 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NOTE - The actual per unit impacts are reflective of the following EMBV reports:

| Program Name As Filed | Docket | Report Reference | Effective Date |
|--|---------------|---|----------------|
| Income Qualified Energy Efficiency and Weatherization Assistance | E-7, Sub 1265 | Duke Energy Carolinas Low Income Weatherization Program (2016-2018) Evaluation Report - Final | 1/1/2019 |
| PowerManager | E-7, Sub 1265 | 2019-2020 Power Manager Evaluation Report | 1/1/2021 |
| Residential - Smart Saver Energy Efficiency Program | E-7, Sub 1265 | Duke Energy Carolinas & Duke Energy Progress Online Savings Store Program 2021 Evaluation Report - Final | Varies |
| Energy Efficiency Education Program for Schools | E-7, Sub 1265 | K12 Education Program 2019-2020 Evaluation Report - Submitted to Duke Energy Carolinas and Duke Energy Progress | 8/1/2020 |
| Small Business Energy Saver | E-7, Sub 1265 | EMBV Report for the Duke Energy Small Business Energy Saver Program 2019-2020 | 7/1/2020 |
| EnergyWise for Business | E-7, Sub 1265 | 2020 EMBV Interim Report for the EnergyWise Business Program | 3/1/2021 |

Duke Energy Carolinas, LLC
List of Industrial and Commercial Customers Opted Out of Vintage 2021
Docket E-7, Sub 1265

| | Number of Accounts |
|--------------------------|--------------------|
| DSM RIDER OPT OUT | 4,777 |
| EE RIDER OPT OUT | 4,461 |

| Customer Bill Name | DSM YR 21 (Jan 1-Dec 31) | EE YR 21 (Jan 1-Dec 31) | GRAND TOTAL |
|---------------------------------------|--------------------------|-------------------------|-------------|
| | RIDER OPT OUT | RIDER OPT OUT | |
| 101 SOUTH TRYON LP | 2 | 2 | 4 |
| 1515 MOCKINGBIRD CHARLOTTE OFFICE LLC | 1 | 1 | 2 |
| 300 SOUTH TRYON LLC | 5 | 5 | 10 |
| 301 COLLEGE STREET CENTER LLC | 1 | 1 | 2 |
| 4000 Monroe LLC | 2 | 2 | 4 |
| 4601 PARK CHARLOTTE OFFICE LLC | 1 | 1 | 2 |
| 638 BREWING CO, INC | 2 | 2 | 4 |
| 800 GREEN VALLEY ASSOCIATES LLC | 1 | 1 | 2 |
| A & T STATE UNIV | 5 | 3 | 8 |
| A W NORTH CAROLINA INC | 5 | 5 | 10 |
| ABB MOTORS AND MECHANICAL INC | 4 | 4 | 8 |
| ABCO AUTOMATION INC | 1 | 1 | 2 |
| ABERCROMBIE TEXTILES LLC | 0 | 1 | 1 |
| ACUCOTE INC | 3 | 3 | 6 |
| ADVANCE STORES CO | 1 | 1 | 2 |
| ADVANCED DRAINAGE SYSTEMS | 2 | 2 | 4 |
| ADVANCED MACHINE & FABRICATION, INC. | 2 | 2 | 4 |
| ADVANCED TECHNOLOGY | 2 | 1 | 3 |
| AE & T COMPANY INC | 1 | 1 | 2 |
| AEP INDUSTRIES INC | 2 | 2 | 4 |
| AERO ACCESSORIES INC | 2 | 2 | 4 |
| AERODYN WIND TUNNEL LLC | 1 | 1 | 2 |
| AFRO AMERICAN CULTUR | 1 | 1 | 2 |
| AIR PRODUCTS & CHEMICALS, INC | 1 | 1 | 2 |
| AIRGAS USA LLC | 0 | 1 | 1 |
| AKZO NOBEL SURFACE CHEMISTRY LLC | 9 | 9 | 18 |
| ALADDIN MANUFACTURING CORPORATION | 0 | 1 | 1 |
| ALAMANCE BURLINGTON SCHOOL SYSTEM | 6 | 6 | 12 |
| ALAMANCE COMMUNITY COLLEGE | 8 | 8 | 16 |
| ALAMANCE EXTENDED CARE, INC | 1 | 1 | 2 |
| ALAMANCE FOODS INC | 0 | 5 | 5 |
| ALAMANCE REGIONAL MEDICAL CENTER | 2 | 2 | 4 |
| ALBEMARLE U. S., INC | 1 | 1 | 2 |
| ALCAN PACKAGING FOOD AND TOBACCO, INC | 2 | 2 | 4 |
| ALDERSGATE | 0 | 9 | 9 |
| ALDI (NC) LLC | 2 | 2 | 4 |
| ALEXANDER COUNTY SCHOOLS | 2 | 2 | 4 |
| ALEXANDRIA REAL ESTATE EQUITIES INC | 7 | 7 | 14 |
| ALL GRANITE INC | 3 | 3 | 6 |
| ALLIANCE ONE INTERNATIONAL | 1 | 1 | 2 |
| ALLIED DIE CASTING CO OF NC | 2 | 2 | 4 |

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|--|----|----|----|
| ALLOYWORKS, LLC | 0 | 5 | 5 |
| ALTEC INDUSTRIES INC | 3 | 3 | 6 |
| AMAZON FULFILLMENT SERVICES, INC | 1 | 1 | 2 |
| AMAZON.COM SERVICES, INC. | 4 | 4 | 8 |
| AMAZON.COMM.DEDC,LLC | 1 | 1 | 2 |
| AMERICAN & EFIRD LLC | 8 | 9 | 17 |
| AMERICAN AIRLINES | 5 | 3 | 8 |
| AMERICAN CAMPUS LLC | 1 | 1 | 2 |
| AMERICAN CONVERTING, CO. LTD | 2 | 2 | 4 |
| AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY | 1 | 1 | 2 |
| AMERICAN FIBER & FINISHING | 1 | 1 | 2 |
| AMERICAN HEBREW ACADEMY | 11 | 11 | 22 |
| AMERICAN MULTI CINEMA INC | 4 | 4 | 8 |
| AMERICAN ROLLER BEARING CO | 4 | 4 | 8 |
| American Snuff | 1 | 1 | 2 |
| American Snuff Company, LLC | 6 | 6 | 12 |
| AMERICAN YARNS LLC | 3 | 3 | 6 |
| AMERICAN ZINC PRODUCTS LLC | 1 | 1 | 2 |
| AMERICOLD LOGISTICS LLC | 1 | 1 | 2 |
| AMSTAR SUGAR CORP | 1 | 1 | 2 |
| ANDALE INC | 1 | 1 | 2 |
| APPALACHIAN STATE UNIV | 1 | 1 | 2 |
| APPLE INC | 2 | 2 | 4 |
| AQUA PLASTICS INC | 1 | 1 | 2 |
| ARBOR ACRES UNITED METHODIST RETIREMENT COMMUN | 9 | 9 | 18 |
| ARCHER-DANIELS-MIDLAND CO | 3 | 3 | 6 |
| ARDAGH METAL BEVERAGE USA, INC | 2 | 2 | 4 |
| ARE-NC REGION NO 11, LLC | 2 | 2 | 4 |
| ARJOBEX AMERICA | 2 | 2 | 4 |
| ARMACELL LLC | 8 | 8 | 16 |
| ARROW INTERNATIONAL INC | 2 | 2 | 4 |
| ASHLEY FURNITURE INDUSTRIES INC | 13 | 13 | 26 |
| ASSOCIATED HEALTH SERVICES INC | 2 | 2 | 4 |
| AT&T BELLSOUTH | 3 | 0 | 3 |
| AT&T MOBILITY LLC | 3 | 3 | 6 |
| AT&T WIRELESS SERVICE | 1 | 1 | 2 |
| ATAPCO UEP, INC | 2 | 2 | 4 |
| ATLANTIC SWEETNER CO | 2 | 2 | 4 |
| ATLAS WELDING | 3 | 3 | 6 |
| ATOS IT OUTSOURCING SERVICES | 1 | 1 | 2 |
| ATOS IT SOLUTIONS AND SERVICES, INC | 1 | 1 | 2 |
| ATRIUM WINDOWS & DOORS | 9 | 9 | 18 |
| AUTOMATED SOLUTIONS LLC | 2 | 2 | 4 |
| AVAGO TECHNOLOGIES WIRELESS(USA) MANUFACTURING | 1 | 1 | 2 |
| AVDEL USA LLC | 1 | 1 | 2 |
| AVISTA PHARMA SOLUTIONS | 4 | 4 | 8 |
| B & E WOODTURNING INC | 1 | 1 | 2 |
| B & W FIBERGLASS | 1 | 1 | 2 |
| B V HEDRICK GRAVEL & SAND COMPANY | 9 | 9 | 18 |
| B&G FOODS SNACKS, INC | 1 | 1 | 2 |
| B/E AEROSPACE, INC | 0 | 15 | 15 |
| BAKER INTERIORS FURNITURE COMPANY | 5 | 8 | 13 |

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|---|----|----|----|
| BAKERY FEEDS INC | 2 | 2 | 4 |
| BANK NOTE CORP | 3 | 3 | 6 |
| BANK OF AMERICA | 3 | 2 | 5 |
| BARNHARDT MANUFACTURING COMPANY INC | 6 | 6 | 12 |
| BARRDAY CORP | 3 | 3 | 6 |
| BARTIMAEUS BY DESIGN INC | 3 | 3 | 6 |
| BARTLETT MILLING CO | 1 | 1 | 2 |
| BASF AGRICULTURAL SOLUTIONS SEED US LLC | 9 | 9 | 18 |
| BASF CORPORATION | 2 | 2 | 4 |
| BAY STATE MILLING | 5 | 5 | 10 |
| BEAL HOLDINGS LLC | 1 | 1 | 2 |
| BEAL MANUFACTURING CORP | 1 | 1 | 2 |
| BEASLEY FLOORING PRODUCTS INC | 2 | 2 | 4 |
| BECO MANAGEMENT | 2 | 2 | 4 |
| BED,BATH & BEYOND | 1 | 1 | 2 |
| BEKAERT TEXTILES USA | 4 | 4 | 8 |
| BELK | 7 | 7 | 14 |
| BELL SOUTH MOBILITY | 1 | 1 | 2 |
| BELLSOUTH | 10 | 10 | 20 |
| BELLSOUTH BSC | 13 | 0 | 13 |
| BELLSOUTH TELECOMMUNICATIONS, LLC | 1 | 1 | 2 |
| BELMONT ABBEY COLLEGE | 19 | 19 | 38 |
| BEMIS MANUFACTURING CO | 2 | 2 | 4 |
| BENJAMIN THOMAS COOPER | 0 | 1 | 1 |
| BEOCARE INC | 2 | 3 | 5 |
| BERNHARDT FURNITURE COMPANY | 8 | 8 | 16 |
| BERRY TRI PLASTICS | 0 | 1 | 1 |
| BESTCO, LLC | 6 | 7 | 13 |
| BESTREADS INC | 2 | 2 | 4 |
| BEVERLY KNITS INC | 6 | 6 | 12 |
| BIC CORPORATION | 5 | 5 | 10 |
| BILLY GRAHAM EVANGELISTIC | 6 | 6 | 12 |
| BI-LO, LLC | 8 | 8 | 16 |
| BIOMERIEUX, INC | 4 | 4 | 8 |
| BISHOP MCGUINNESS CATHOLIC HIGH SCHOOL | 3 | 3 | 6 |
| BISSELL COMPANIES | 1 | 1 | 2 |
| BJ'S WHOLESALE CLUB | 2 | 2 | 4 |
| BLACKSTONE CHARLOTTE, LLC | 1 | 1 | 2 |
| BLOW MOLDED SOLUTIONS LLC | 0 | 2 | 2 |
| BLUE RIDGE COMMUNITY COLLEGE | 17 | 15 | 32 |
| BLUE RIDGE HEALTH CARE | 1 | 1 | 2 |
| BLUM, INC | 1 | 1 | 2 |
| BONSET AMERICA CORP | 1 | 1 | 2 |
| Boral Building Products Inc. | 3 | 3 | 6 |
| BORAL COMPOSITES INC. | 4 | 4 | 8 |
| Bosnere Inc | 1 | 1 | 2 |
| BOSTON GEAR LLC | 1 | 1 | 2 |
| BOWMAN DAIRY | 1 | 1 | 2 |
| BOXBOARD PROD INC | 2 | 2 | 4 |
| BRASS CRAFT MFG CO | 1 | 1 | 2 |
| BRAXTON SAWMILL INC | 2 | 2 | 4 |
| BRAY PROPERTIES, LLC | 1 | 1 | 2 |

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| BRF-A1,LLC | 1 | 1 | 2 |
| BRI 1875 MERIDIAN, LLC | 8 | 4 | 12 |
| BRI 1881 INNOVATION PARK LLC | 2 | 0 | 2 |
| BRIDGESTONE AIRCRAFT TIRE USA INC | 3 | 3 | 6 |
| BRIGHT ENTERPRISES INC | 2 | 2 | 4 |
| BRIT-CHARLOTTE HOLDING LLC | 1 | 1 | 2 |
| BROAD RIVER WATER AUTHORITY | 1 | 0 | 1 |
| BSN MEDICAL INC | 1 | 0 | 1 |
| BUCKEYE FIRE EQUIPMENT COMPANY | 4 | 4 | 8 |
| BUD ANTLE, INC | 1 | 1 | 2 |
| BUDDERFLY, INC | 3 | 3 | 6 |
| BURKE COUNTY SCHOOLS | 27 | 18 | 45 |
| C P EAKES CO | 1 | 1 | 2 |
| CABARRUS COUNTY SCHOOLS | 33 | 33 | 66 |
| CALHOUN,DANIEL | 3 | 3 | 6 |
| CALICO TECHNOLOGIES INC | 3 | 3 | 6 |
| CAMBRIDGE ACQUISITIONS LLC | 1 | 1 | 2 |
| CAMBRO MANUFACTURING CO | 4 | 4 | 8 |
| CAMCO MANUFACTURING, LLC | 5 | 5 | 10 |
| CAMFIL USA INC | 2 | 2 | 4 |
| CANDLE CORPORATION OF AMERICA | 2 | 2 | 4 |
| CAPITOL BROADCASTING COMPANY INC | 8 | 8 | 16 |
| CARAUSTAR INC | 4 | 0 | 4 |
| CARAUSTAR IND & CONSUMER PRODUCTS GROUP | 3 | 2 | 5 |
| CARDINAL FLOAT GLASS | 1 | 1 | 2 |
| CARDINAL HEALTH | 1 | 1 | 2 |
| CARDINAL HEALTH 200, LLC | 1 | 1 | 2 |
| CARDINAL HEALTH INC | 2 | 2 | 4 |
| CARGILL, INCORPORATED | 9 | 9 | 18 |
| CARLIE C'S IGA OF MINERAL SPRINGS | 1 | 1 | 2 |
| CARLISLE FOOD SERVIC | 3 | 3 | 6 |
| CARMEL COUNTRY CLUB | 27 | 27 | 54 |
| CARMEL CTRY CLUB | 1 | 1 | 2 |
| CAROLINA BEVERAGE GROUP, LLC | 3 | 3 | 6 |
| CAROLINA CONTAINER | 5 | 5 | 10 |
| CAROLINA CUSTOM SURFACES LLC | 2 | 2 | 4 |
| CAROLINA GLOVE COMPANY | 6 | 6 | 12 |
| CAROLINA GRAPHIC SERVICES LLC | 1 | 1 | 2 |
| CAROLINA INVESMENT PROPERTIES | 1 | 1 | 2 |
| CAROLINA LASER CUTTING INC | 1 | 1 | 2 |
| CAROLINA MEADOWS INC | 20 | 20 | 40 |
| CAROLINA NONWOVENS LLC | 1 | 1 | 2 |
| CAROLINA PERLITE CO | 1 | 1 | 2 |
| CAROLINA PRECISION COMPONENTS, INC. | 1 | 1 | 2 |
| CAROLINA PRECISION PLASTICS LLC | 6 | 6 | 12 |
| CAROLINA STALITE CO | 9 | 9 | 18 |
| CAROLINA SUNROCK CORP | 9 | 9 | 18 |
| CAROLINA TRACTOR & EQUIPMENT COMPANY | 4 | 4 | 8 |
| CAROLINA VILLAGE | 2 | 2 | 4 |
| CAROLINAS HEALTHCARE SYSTEM | 29 | 29 | 58 |
| CAROMONT MEDICAL GROUP | 1 | 1 | 2 |
| CARPENTER COMPANY | 4 | 4 | 8 |

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| CARRIER CORPORATION | 2 | 2 | 4 |
| CARTMAN HOTEL LLC | 0 | 1 | 1 |
| CASCADE DIE CASTING GRP INC | 0 | 2 | 2 |
| CASE FARMS | 3 | 3 | 6 |
| CASTLE & COOKE NORTH CAROLINA LLC | 3 | 3 | 6 |
| CATAWBA COLLEGE | 2 | 2 | 4 |
| CATAWBA COUNTY SCHOOLS | 6 | 0 | 6 |
| CATAWBA VALLEY MEDICAL CENTER | 1 | 1 | 2 |
| CATO CORP | 2 | 2 | 4 |
| CBL ASSOCIATES MANAGEMENT, INC | 1 | 1 | 2 |
| CBP RESOURCES | 4 | 4 | 8 |
| CCBCC OPERATIONS, LLC | 5 | 5 | 10 |
| CCC DEVELOPMENT PARTNERS, LLC | 1 | 1 | 2 |
| CCL LABEL INC | 0 | 3 | 3 |
| CDP DURHAM CENTER INVESTORS LLC | 1 | 1 | 2 |
| CEDAR FAIR SOUTHWEST, INC | 3 | 3 | 6 |
| CELGARD, LLC | 1 | 1 | 2 |
| CELLCO PARTNERSHIP | 1 | 1 | 2 |
| CENTRAL CAROLINA PLASTICS INC | 1 | 2 | 3 |
| CENTRAL CAROLINA PRODUCTS | 1 | 1 | 2 |
| CENTRAL REGIONAL HOSPITAL | 0 | 5 | 5 |
| CENTRILOGIC, INC | 1 | 1 | 2 |
| CENTURY FURNITURE, LLC | 6 | 0 | 6 |
| CERTAINTEED CORP | 0 | 3 | 3 |
| CHADC1 INVESTMENT, LLC | 1 | 1 | 2 |
| CHAPEL HILL/CARRBORO SCHOOLS | 30 | 0 | 30 |
| CHARLOTTE COLOCATION CENTER LLC | 1 | 1 | 2 |
| CHARLOTTE COUNTRY DAY SCHOOL | 7 | 0 | 7 |
| CHARLOTTE LATIN SCHOOLS, INC. | 10 | 10 | 20 |
| CHARLOTTE OBSERVER PUBLISHING COMPANY | 1 | 1 | 2 |
| CHARLOTTE PIPE & FOUNDRY | 13 | 13 | 26 |
| CHARTER COMMUNICATIONS | 1 | 1 | 2 |
| CHEMICAL SPECIALTIES | 5 | 5 | 10 |
| CHEROKEE BOYS CLUB | 3 | 3 | 6 |
| CHESAPEAKE TREATMENT COMPANY, LLC | 1 | 1 | 2 |
| CHICOPEE, INC | 1 | 1 | 2 |
| CINEBARRE, LLC | 2 | 2 | 4 |
| CISCO SYSTEMS INC | 1 | 1 | 2 |
| CITY OF ASHEVILLE | 1 | 2 | 3 |
| CITY OF BELMONT | 2 | 2 | 4 |
| CITY OF BURLINGTON | 5 | 5 | 10 |
| CITY OF CHARLOTTE | 89 | 102 | 191 |
| CITY OF CHARLOTTE REGIONAL VISITORS AUTHORITY | 6 | 6 | 12 |
| CITY OF DURHAM | 9 | 9 | 18 |
| CITY OF EDEN | 0 | 1 | 1 |
| CITY OF GASTONIA | 3 | 3 | 6 |
| CITY OF GRAHAM | 2 | 2 | 4 |
| CITY OF GREENSBORO | 23 | 26 | 49 |
| CITY OF HENDERSONVILLE | 1 | 2 | 3 |
| CITY OF HICKORY | 3 | 3 | 6 |
| CITY OF KANNAPOLIS | 0 | 1 | 1 |
| CITY OF LENOIR | 5 | 7 | 12 |

| | | | |
|--|-----|----|-----|
| CITY OF MARION | 2 | 2 | 4 |
| CITY OF MEBANE | 1 | 1 | 2 |
| CITY OF REIDSVILLE | 2 | 2 | 4 |
| CITY OF SALISBURY | 10 | 9 | 19 |
| CITY OF WINSTON-SALEM | 22 | 27 | 49 |
| CK RIDGE CREEK WEST II, LLC | 1 | 1 | 2 |
| CKS PACKAGING INC | 4 | 4 | 8 |
| CLAPPS NURSING HOME CENTER | 1 | 1 | 2 |
| CLARIANT CORPORATION | 18 | 18 | 36 |
| CLEARLIGHT GLASS AND MIRROR | 2 | 2 | 4 |
| CLEARWATER PAPER CORPORATION | 5 | 5 | 10 |
| CLEMENT PAPPAS NC, INC | 4 | 4 | 8 |
| CLEVELAND COUNTY FAMILY YOUNG MENS CHRISTIAN ASS | 2 | 2 | 4 |
| CLEVELAND COUNTY SCHOOLS | 31 | 28 | 59 |
| CMBE | 116 | 0 | 116 |
| CMC-NORTHEAST INC | 8 | 8 | 16 |
| CMHA | 13 | 13 | 26 |
| COATS AMERICAN | 2 | 2 | 4 |
| COATS HP INC | 2 | 2 | 4 |
| COLEY, LLC | 1 | 1 | 2 |
| COLONIAL PIPELINE | 0 | 5 | 5 |
| COLUMBIA PLYWOOD CORPORATION | 6 | 7 | 13 |
| COMMONWEALTH HOSIERY | 3 | 3 | 6 |
| COMMSCOPE, INC. | 9 | 9 | 18 |
| COMPAERO | 1 | 1 | 2 |
| CONCRETE SUPPLY | 3 | 3 | 6 |
| CONCRETE SUPPLY CO | 7 | 7 | 14 |
| CONCRETE SUPPLY COMPANY LLC | 1 | 1 | 2 |
| CONOVER LUMBER CO | 2 | 2 | 4 |
| CONRAD HILL FEED & | 1 | 1 | 2 |
| CONSENSUS PROTOCOL LLC | 1 | 1 | 2 |
| CONSOLIDATED CONTAINER COMPANY | 5 | 5 | 10 |
| CONSOLIDATED METCO INC | 0 | 1 | 1 |
| CONTINENTAL AUTOMOTIVE SYSTEMS, INC | 2 | 2 | 4 |
| CORE SCIENTIFIC INC | 0 | 1 | 1 |
| CORMETECH INC | 1 | 1 | 2 |
| CORNERSTONE CHARTER ACADEMY INC | 2 | 2 | 4 |
| CORNING CABLE SYSTEMS | 4 | 4 | 8 |
| CORNING INC | 5 | 5 | 10 |
| COSTCO WHOLESALE INC | 6 | 6 | 12 |
| COUSINS PROP INC | 1 | 1 | 2 |
| COUSINS PROPERTIES LP | 3 | 3 | 6 |
| CPCC | 37 | 37 | 74 |
| CPI/AHP University Place MOB Owner | 1 | 1 | 2 |
| CPU Shiloh LP | 1 | 1 | 2 |
| CRAFT REVOLUTION LLC | 1 | 1 | 2 |
| CREDIT SUISSE SECURITIES (USA) LLC | 1 | 1 | 2 |
| CREDIT SUISSE SECURITIES(USA) LLC CENTER OF EXCELL | 1 | 1 | 2 |
| CREE INC | 10 | 10 | 20 |
| CRONLAND LUMBER CO | 1 | 1 | 2 |
| CROWN CONVERTING | 3 | 3 | 6 |
| CRWW SPECIALTY COMPOSITES INC | 1 | 1 | 2 |

| | | | |
|---|----|----|----|
| CS CAROLINA INC | 3 | 3 | 6 |
| CSHV 615 COLLEGE LLC | 2 | 2 | 4 |
| CSHV SOUTHPARK 6100 FAIRVIEW, LLC | 1 | 1 | 2 |
| CSHV SOUTHPARK, LLC | 1 | 1 | 2 |
| CULP HOME FASHIONS | 1 | 1 | 2 |
| CULP INC | 2 | 2 | 4 |
| CURTISS-WRIGHT CONTROLS INC | 3 | 3 | 6 |
| CYRUSONE-NC LLC | 3 | 3 | 6 |
| DAIMLER TRUCKS NORTH AMERICA, LLC | 5 | 0 | 5 |
| DALCO NONWOVENS, LLC | 2 | 2 | 4 |
| DANNY TERRELL | 2 | 2 | 4 |
| DART CONTAINER CORPORATION OF GEORGIA | 3 | 3 | 6 |
| DATACHAMBERS, LLC | 2 | 2 | 4 |
| DAVIDSON COLLEGE | 15 | 15 | 30 |
| DAVIDSON COUNTY COMMUNITY COLLEGE | 3 | 3 | 6 |
| DAVIDSON WATER INC | 0 | 1 | 1 |
| DAVIE CONSTRUCTION | 1 | 1 | 2 |
| DC CHARLOTTE PLAZA LLLP | 1 | 1 | 2 |
| DC74 LLC | 3 | 3 | 6 |
| DE FEET INTERNATIONAL | 3 | 3 | 6 |
| DEBOTECH INC | 1 | 1 | 2 |
| DEERE HITACHI CONST MACH | 11 | 0 | 11 |
| DELTA PHOENIX, INC. | 1 | 1 | 2 |
| DFA DAIRY BRANDS FLUID, LLC | 1 | 1 | 2 |
| DFA DAIRY BRANDS FLUIDS, LLC | 1 | 1 | 2 |
| DHOLLANDIA US, LLC | 1 | 1 | 2 |
| DIAMOND VIEW I LLC | 2 | 2 | 4 |
| DIAMOND VIEW II | 2 | 2 | 4 |
| DILLARDS DEPARTMENT STORE | 6 | 6 | 12 |
| DISCOVERY PLACE INC | 1 | 1 | 2 |
| DISNEY WORLDWIDE SERVICES INC | 1 | 1 | 2 |
| DIZE AWNING TENT CO | 1 | 1 | 2 |
| DIZE COMPANY | 2 | 2 | 4 |
| Dodge Mechanical Power Transmission | 1 | 1 | 2 |
| DOOSAN INFRACORE PORTABLE POWER - A DIVISION OF C | 2 | 2 | 4 |
| DOUGHTON MFG CO | 3 | 3 | 6 |
| DUCKWORTH'S 3106, LLC | 2 | 2 | 4 |
| DUKE UNIVERSITY | 10 | 11 | 21 |
| DUKE UNIVERSITY HEALTH SYSTEM INC | 6 | 0 | 6 |
| DUPONT SPECIALTY PRODUCTS USA LLC | 1 | 1 | 2 |
| DURHAM BULLS | 2 | 2 | 4 |
| DURHAM COCA COLA | 3 | 3 | 6 |
| DURHAM ID PHASE 1 DEVELOPER LLC | 1 | 1 | 2 |
| DURHAM OB GYN | 1 | 1 | 2 |
| DURHAM PUBLIC SCHLS | 8 | 0 | 8 |
| DURHAM PUBLIC SCHOOLS | 54 | 0 | 54 |
| DURHAM TECH COMM COL | 1 | 0 | 1 |
| DURHAM TW ALEXANDER LLC | 1 | 1 | 2 |
| DYNAYARN USA, L.L.C. | 1 | 1 | 2 |
| DYSTAR LIMITED PARTNERSHIP | 1 | 1 | 2 |
| DYSTAR LP | 4 | 4 | 8 |
| EAST COAST LUMBER CO | 1 | 1 | 2 |

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|--|----|----|-----|
| EAST WILKES HIGH SCHOOL | 5 | 5 | 10 |
| EASTERN BAND OF CHEROKEE INDIANS | 1 | 1 | 2 |
| EATON AEROQUIP INC | 1 | 1 | 2 |
| EATON CORP | 2 | 2 | 4 |
| ECMD INC | 0 | 4 | 4 |
| ECOFLO INC | 3 | 3 | 6 |
| EDS PALLETT WORLD INC | 4 | 4 | 8 |
| ELASTIC FABRICS OF AMERICA | 2 | 1 | 3 |
| ELECTRIC GLASS FIBER AMERICA,LLC | 4 | 4 | 8 |
| ELECTROLUX HOME PRODUCTS | 2 | 2 | 4 |
| ELECTROLUX HOME PRODUCTS, INC | 2 | 2 | 4 |
| ELEVATE TEXTILES, INC | 0 | 1 | 1 |
| ELITE COMFORT SOLUTIONS LLC | 1 | 1 | 2 |
| ELITE DISPLAYS & DESIGN INC | 3 | 3 | 6 |
| ELLEN BARNETTE | 1 | 1 | 2 |
| ELLIS LUMBER CO | 3 | 3 | 6 |
| ELON UNIVERSITY | 66 | 67 | 133 |
| EMC CORPORATION | 2 | 2 | 4 |
| EMERGEORTHO, P.A | 1 | 1 | 2 |
| ENDURA PRODUCTS INC | 5 | 5 | 10 |
| ENGINEERED CONTROLS INTERNATIONAL INC | 4 | 4 | 8 |
| ENSONO, INC | 1 | 1 | 2 |
| EPA | 4 | 4 | 8 |
| Essentra Filter Products | 3 | 3 | 6 |
| ESSENTRA PACKAGING US, INC | 0 | 5 | 5 |
| ETHAN ALLEN OPERATIONS INC | 2 | 2 | 4 |
| EUROPA CENTER LLC | 1 | 1 | 2 |
| EVANS,JAMES R | 1 | 1 | 2 |
| EWE WAREHOUSE INVESTMENTS XXXIII LTD | 4 | 4 | 8 |
| FAIRFIELD CHAIR CO | 6 | 6 | 12 |
| FAIRSTONE FABRICS | 4 | 4 | 8 |
| FAIST CHEMTEC INC | 2 | 2 | 4 |
| FAMILY DOLLAR STORES OF NORTH CAROLINA INC | 1 | 1 | 2 |
| FEDERAL RES BANK | 1 | 1 | 2 |
| FEDEX GROUND PACKAGE SYS INC | 3 | 3 | 6 |
| FERGUSON SUPPLY & BOX | 1 | 1 | 2 |
| FFNC INC | 5 | 5 | 10 |
| FIBER & YARN PRODUCTS, INC | 1 | 2 | 3 |
| FIBER COMPOSITES CORPORATION | 0 | 4 | 4 |
| FIBRIX, LLC | 2 | 2 | 4 |
| FIDDLIN FISH BREWING COMPANY LLC | 1 | 1 | 2 |
| FIDELITY REAL ESTATE COMPANY, LLC | 6 | 6 | 12 |
| FIDELITY REAL ESTATE LLC | 1 | 1 | 2 |
| FILTRONA GREENSBORO, INC | 3 | 3 | 6 |
| FIRESTONE FIBERS & TEXTILES COMPANY, LLC | 2 | 2 | 4 |
| FIRST CITIZENS BANK & TRUST CO | 1 | 1 | 2 |
| FIRST PRESBY CHURCH | 4 | 4 | 8 |
| FISERV SOLUTIONS INC | 1 | 1 | 2 |
| FLETCHER HOSPITAL, INC. | 8 | 9 | 17 |
| FLEXENTIAL CORP | 2 | 2 | 4 |
| FLOW PROPERTIES | 1 | 1 | 2 |
| FLOWERS BAKING COMPANY | 1 | 1 | 2 |

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|---|-----|-----|-----|
| FLYNT AMTEX INC | 1 | 1 | 2 |
| FMC LITHIUM USA CORP | 1 | 1 | 2 |
| FOCKE & CO, INC | 1 | 1 | 2 |
| FOOD LION | 222 | 219 | 441 |
| FORBO MOVEMENT SYSTEMS | 1 | 1 | 2 |
| FORESTVIEW HIGH SCHOOL PTA | 1 | 0 | 1 |
| FORSYTH TECHNICAL COLLEGE | 8 | 6 | 14 |
| FOSS AUTO RECYCLING INC | 5 | 5 | 10 |
| FREUDENBERG PERFORMANCE MATERIALS LP | 3 | 3 | 6 |
| FRIENDLIEST HOTEL, LLC | 1 | 1 | 2 |
| FRITO-LAY, INC | 1 | 1 | 2 |
| FRONTIER COMMUNICATIONS CORPORATE SERVICES, INC | 2 | 2 | 4 |
| FRONTIER YARNS, INC | 0 | 2 | 2 |
| FRYE REGIONAL MEDICAL CENTER | 9 | 9 | 18 |
| FULLSTEAM BREWERY, LLC | 1 | 0 | 1 |
| FUNDER AMERICA INC | 5 | 5 | 10 |
| FURNITURELAND SOUTH | 8 | 8 | 16 |
| GALENOR DESIGNS, LLC | 1 | 1 | 2 |
| GALVAN INDUSTRIES INC | 7 | 7 | 14 |
| GARDNER WEBB UNIV | 1 | 1 | 2 |
| GASTON CO SCHOOLS | 1 | 1 | 2 |
| GASTON COLLEGE | 7 | 7 | 14 |
| GASTON COUNTY SCHOOLS | 24 | 24 | 48 |
| GATEWAY RESEARCH PARK, INC | 4 | 4 | 8 |
| GE LIGHTING SOLUTIONS LLC | 6 | 6 | 12 |
| GENERAL ELECTRIC | 2 | 2 | 4 |
| GENERIC BIDCO II, LLC | 5 | 5 | 10 |
| GENPAK LLC | 5 | 6 | 11 |
| GENUINE PARTS COMPANY | 2 | 0 | 2 |
| GERDAU AMERISTEEL US INC | 2 | 2 | 4 |
| GETRAG GEARS OF NA | 2 | 2 | 4 |
| GF LINAMAR LLC | 1 | 1 | 2 |
| GIGA DATA CENTER - 1 LLC | 1 | 1 | 2 |
| GILBARCO INC | 1 | 0 | 1 |
| GILDAN ACTIVEWEAR (EDEN) INC | 4 | 2 | 6 |
| GILDAN YARNS, LLC | 0 | 1 | 1 |
| GILKEY LUMBER CO INC | 7 | 7 | 14 |
| GKN DRIVELINE NORTH AMERICA, INC | 1 | 1 | 2 |
| GKN SINTER METALS | 1 | 1 | 2 |
| Glatfelter Mt Holly LLC | 2 | 2 | 4 |
| GLEN RAVEN INC | 1 | 2 | 3 |
| GLOBAL TEXTILE ALLIANCE INC | 5 | 5 | 10 |
| gold bond building products, llc | 1 | 1 | 2 |
| GOLDING FARMS FOODS | 2 | 2 | 4 |
| GOODWILL INDUSTRIES OF NW NC | 0 | 1 | 1 |
| GRANDEUR MFG | 1 | 1 | 2 |
| GRANGES AMERICAS INC | 1 | 1 | 2 |
| GRASCHE USA | 1 | 1 | 2 |
| GRASS AMERICA INC | 4 | 4 | 8 |
| GRAY MANUFACTURING TECHNOLOGIES LLC | 2 | 2 | 4 |
| GREENE STREET HOLDINGS | 2 | 2 | 4 |
| GREENEST HOTEL LLC | 1 | 1 | 2 |

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|--|-----|-----|-----|
| GREENSBORO COLLEGE | 13 | 0 | 13 |
| GREER LABORATORIES INC | 4 | 0 | 4 |
| Griffin Charlotte Airport Plaza LLC | 1 | 1 | 2 |
| Griffin Charlotte Park II LLC | 1 | 1 | 2 |
| Griffin Charlotte Park III LLC | 1 | 1 | 2 |
| GRIFFIN INDUSTRIES | 2 | 2 | 4 |
| GRIFOLS THERAPEUTICS INC | 1 | 1 | 2 |
| GUILFORD COLLEGE | 42 | 31 | 73 |
| GUILFORD COUNTY | 8 | 8 | 16 |
| GUILFORD COUNTY SCHOOLS | 203 | 202 | 405 |
| GUILFORD TECH COMM COLL | 16 | 16 | 32 |
| H ALVIS FAUST | 2 | 2 | 4 |
| H B D INC | 1 | 1 | 2 |
| HAECO CABIN SOLUTIONS | 9 | 9 | 18 |
| HAN FENG INC | 0 | 1 | 1 |
| HANCOCK & MOORE, LLC | 6 | 5 | 11 |
| HANES COMPANIES INC | 2 | 3 | 5 |
| HANES DYE & FINISHING | 1 | 1 | 2 |
| HANWHA ADVANCED MATERIALS AMERICA LLC | 1 | 1 | 2 |
| HARRIS TEETER INC | 84 | 84 | 168 |
| HASHMASTER TECH, LLC | 0 | 1 | 1 |
| HAYWARD INDUSTRIES, INC | 3 | 3 | 6 |
| HENDERSON COUNTY | 5 | 5 | 10 |
| HENDERSON COUNTY HOSPITAL CORP | 6 | 6 | 12 |
| HENDERSON COUNTY PUBLIC SCHOOLS | 15 | 15 | 30 |
| Henderson Ventures | 1 | 1 | 2 |
| HENDERSONVILLE HEALTH & REHAB | 1 | 1 | 2 |
| HENKEL CORPORATION | 6 | 6 | 12 |
| HERBALIFE INTERNATIONAL OF AMERICA INC | 1 | 0 | 1 |
| HERRON TEST LAB INC | 1 | 1 | 2 |
| HICKORY CITY SCHOOLS | 10 | 0 | 10 |
| HICKORY PRINTING SOLUTIONS, LLC | 2 | 2 | 4 |
| HICKORY SPRINGS MANUFACTURING COMPANY | 21 | 22 | 43 |
| HIGH ASSOCIATES, LTD | 2 | 2 | 4 |
| HIGH COUNTRY LUMBER AND MULCH LLC | 0 | 2 | 2 |
| HIGH DEFINITION TOOL CORPORATION | 1 | 1 | 2 |
| HIGHWOODS PARK PROPERTY OWNERS ASSOCIATI | 1 | 0 | 1 |
| HIGHWOODS REALTY LIMITED | 11 | 11 | 22 |
| HIGHWOODS REALTY LIMITED PARTNERSHIP | 13 | 0 | 13 |
| HIGHWOODS REALTY LTP | 1 | 0 | 1 |
| HILL HOSIERY MILLS | 2 | 2 | 4 |
| HISTORIC REVOLUTION LLC | 3 | 3 | 6 |
| HITACHI METALS NC LTD | 1 | 1 | 2 |
| HOME DEPOT | 10 | 0 | 10 |
| HONDA POWER EQUIPMENT MFG, INC | 0 | 1 | 1 |
| Hood Container Corp | 1 | 1 | 2 |
| HS MALLARD CREEK CENTER LLC | 1 | 1 | 2 |
| HSRE-HOCK PLAZA LLC | 2 | 2 | 4 |
| HTA-MOREHEAD MOB, LLC | 1 | 1 | 2 |
| HUGH CHATHAM MEM HOSPITAL | 37 | 37 | 74 |
| HUITT MILLS,INC | 2 | 2 | 4 |
| HUMACYTE INC | 2 | 2 | 4 |

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|--|----|----|----|
| HUNTSMAN INTERNATIONAL LLC | 2 | 2 | 4 |
| IBM CORPORATION | 6 | 7 | 13 |
| IGM RESINS USA INC | 0 | 1 | 1 |
| IMAGE MARK BUSINESS SERVICES | 1 | 1 | 2 |
| IMAGES OF AMERICA | 2 | 2 | 4 |
| IMC-METALSAMERICA, LLC | 1 | 1 | 2 |
| IMERYS MICA KINGS MOUNTAIN INC | 7 | 7 | 14 |
| IMPERIAL HOTEL GROUP INC | 3 | 3 | 6 |
| INDEPENDENCE LUMBER COMPANY | 3 | 3 | 6 |
| INDEPENDENT BEVERAGE CORP | 3 | 3 | 6 |
| INDEPENDENT BEVERAGE CORPORATION | 1 | 1 | 2 |
| INDUSTRIAL WOOD PROD | 3 | 3 | 6 |
| INDUSTRIAL WOOD PRODUCTS | 3 | 3 | 6 |
| INFO-GEL, LLC | 3 | 3 | 6 |
| INGERSOLL-RAND COMPANY | 7 | 7 | 14 |
| INGLES MARKETS INC | 24 | 24 | 48 |
| INGLES MARKETS, INC. | 40 | 40 | 80 |
| INGREDION INCORPORATED | 1 | 1 | 2 |
| INSTEEL INDUSTRIES, INC | 2 | 2 | 4 |
| INSTITUTION FOOD HOUSE, INC | 7 | 6 | 13 |
| INTELLIGENT IMPLANT SYSTEMS | 1 | 1 | 2 |
| INTERNATIONAL PAPER COMPANY | 4 | 4 | 8 |
| INTERTECH CORP | 1 | 1 | 2 |
| IPEX USA, INC | 0 | 1 | 1 |
| IQE INC | 2 | 2 | 4 |
| IRVING PARTNERS, LTD | 1 | 1 | 2 |
| ISOTHERMAL COMMUNITY COLLEGE | 5 | 5 | 10 |
| ITG BRANDS LLC | 2 | 2 | 4 |
| J C PENNEY CO | 1 | 1 | 2 |
| JACKSON PAPER MFG CO | 1 | 1 | 2 |
| JAMES M PLEASANTS CO | 1 | 0 | 1 |
| JAMESTOWN YMCA | 1 | 1 | 2 |
| JDL CASTLE CORP | 1 | 1 | 2 |
| John and Jeff Schwarz LLC | 0 | 1 | 1 |
| JOHN JENKINS CO | 1 | 1 | 2 |
| JOHN T MILLS | 0 | 1 | 1 |
| JOHN UMSTEAD HOSPITAL | 0 | 3 | 3 |
| JOHNSON & WALES UNIVERSITY | 3 | 3 | 6 |
| JOHNSON CONTROLS BATTERY GROUP, INC | 1 | 1 | 2 |
| JOHNSON CONTROLS INC | 2 | 0 | 2 |
| JOWAT CORPORATION | 8 | 8 | 16 |
| JPS COMPOSITE MATERIALS CORP | 0 | 1 | 1 |
| KAYSER ROTH CORPORATION | 2 | 2 | 4 |
| KBI BIOPHARMA, INC | 3 | 3 | 6 |
| KBSIII CARILLON LLC | 1 | 1 | 2 |
| KEN SMITH YARN CO | 1 | 1 | 2 |
| KENDRION-SHELBY | 1 | 1 | 2 |
| KERRS HICKORY READY MIXED CONCRETE COMPANY INC | 1 | 1 | 2 |
| KEYSTONE POWDERED ME | 1 | 1 | 2 |
| KIMBERLY CLARK | 2 | 2 | 4 |
| KIMBERLY-CLARK | 3 | 3 | 6 |
| KINCAID FURNITURE | 6 | 6 | 12 |

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| | | | |
|--|----|----|-----|
| KINDER MORGAN SOUTHEAST TERMINAL | 3 | 4 | 7 |
| KINDER MORGAN TRANSMIX GROUP | 1 | 1 | 2 |
| KINDRED HOSPITALS EAST LLC | 2 | 2 | 4 |
| KINGS MOUNTAIN INTERNATIONAL INC | 2 | 2 | 4 |
| KOOPMAN DAIRIES INC | 2 | 2 | 4 |
| KOURY CORPORATION | 50 | 50 | 100 |
| KOURY VENTURES | 5 | 5 | 10 |
| KSM CASTINGS USA INC | 2 | 2 | 4 |
| KURZ TRANSFER PRODUCTS LP | 4 | 4 | 8 |
| KYOCERA INTERNATIONAL INC | 1 | 1 | 2 |
| L B PLASTICS INC | 5 | 5 | 10 |
| L S STARRETT CO | 0 | 1 | 1 |
| LAB CORP | 6 | 7 | 13 |
| LABELTECH INCORPORATED | 2 | 2 | 4 |
| LABORATORY CORPORATION OF AMERICA | 1 | 1 | 2 |
| LABORATORY CORPORATION OF AMERICA HOLDINGS | 1 | 1 | 2 |
| LAKE HICKORY COUNTRY CLUB | 6 | 6 | 12 |
| LANXESS CORP | 0 | 3 | 3 |
| LANXESS SOLUTIONS US INC | 1 | 1 | 2 |
| LASER INK CORPORATION | 1 | 1 | 2 |
| LEE INDUSTRIES | 3 | 3 | 6 |
| LEESONA CORP | 1 | 1 | 2 |
| LEGION BREWING COMPANY LLC | 2 | 2 | 4 |
| LELOUDIS LIONTIS, LLC | 1 | 1 | 2 |
| LENNY BOY LLC | 1 | 1 | 2 |
| LENOVO (UNITED STATES) INC | 1 | 1 | 2 |
| LEXINGTON FURNITURE IND | 2 | 3 | 5 |
| LIBERTY COMMONS NURSING AND REHABILITATION CEN | 1 | 1 | 2 |
| LIBERTY COMMONS NURSING AND REHABILITATION CENTI | 1 | 1 | 2 |
| LIBERTY HARDWARE | 3 | 3 | 6 |
| LIBERTY HEALTHCARE PROPERTIES OF BALLANTYNE LLC | 1 | 1 | 2 |
| LIBERTY HEALTHCARE PROPERTIES OF MECKLENBURG COU | 1 | 1 | 2 |
| LIDL US OPERATIONS LLC | 1 | 1 | 2 |
| LIDL US OPERATIONS, LLC | 4 | 4 | 8 |
| LIGGETT GROUP INC | 1 | 1 | 2 |
| LINCOLN COMMUNITY HEALTH CENTER INC | 2 | 2 | 4 |
| LINDYS HOMEMADE, LLC | 1 | 1 | 2 |
| LOPAREX LLC | 2 | 2 | 4 |
| LOTUS BAKERIES US MANUFACTURING, LLC | 1 | 1 | 2 |
| LOUISIANA-PACIFIC CORPORATION | 1 | 1 | 2 |
| LOWES FOODS | 32 | 32 | 64 |
| LOWES HOME CENTERS | 2 | 1 | 3 |
| LOWE'S HOME CENTERS, INC | 88 | 0 | 88 |
| LOWES OF FRANKLIN #717 | 1 | 0 | 1 |
| LOWE'S OF FRANKLIN #717 | 1 | 0 | 1 |
| LTF CONSTRUCTION COMPANY LLC | 1 | 1 | 2 |
| LUBRIZOL ADVANCED MATERIALS INC | 3 | 3 | 6 |
| LUTHERAN RETIREMENT MINISTRIES OF ALAMANCE CO | 11 | 11 | 22 |
| LYDALL THERMAL ACOUSTICAL INC | 8 | 5 | 13 |
| M STRATEGIC INDUSTRIAL COLLECTION LLC | 1 | 1 | 2 |
| MAERSK INC | 1 | 1 | 2 |
| MAGNOLIA CASTLE LLC | 1 | 1 | 2 |

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| MANN+HUMMEL FILTRATION TECHNOLOGY US LLC | 2 | 2 | 4 |
| MANNINGTON MILLS INC | 1 | 1 | 2 |
| MANUAL WOODWORKERS & WEAVERS INC | 2 | 2 | 4 |
| MAPLE SPRINGS LAUNDRY INC | 4 | 4 | 8 |
| MARKET AMERICA | 3 | 3 | 6 |
| MARRIOTT INTERNATIONAL INC | 0 | 2 | 2 |
| MARSH FURNITURE CO | 4 | 4 | 8 |
| MARTIN MARIETTA MATERIALS INC | 63 | 67 | 130 |
| Maryland and Virginia Milk Products Corp | 1 | 1 | 2 |
| MASONIC & EASTERN STAR HOME | 3 | 3 | 6 |
| MATERIAL HANDLING INDUSTRY | 1 | 1 | 2 |
| MAUSER CORP | 0 | 4 | 4 |
| MAY DEPT STORE | 3 | 3 | 6 |
| MAYFLOWER VEHICLE SYSTEMS,LLC | 2 | 2 | 4 |
| MCCOMB INDUSTRIES LLLP | 2 | 2 | 4 |
| MCCREARY MODERN INC | 8 | 0 | 8 |
| MCDOWELL HOSPITAL INC | 1 | 0 | 1 |
| MCLEOD LEATHR & BELT | 1 | 1 | 2 |
| MCMICHAEL MILLS INC | 2 | 2 | 4 |
| MDI MANAGEMENT | 1 | 0 | 1 |
| MEAT AND SEAFOOD SOLUTIONS LLC | 1 | 1 | 2 |
| MECK AREA CATH SCHLS | 0 | 3 | 3 |
| MECKLENBURG COUNTY | 22 | 0 | 22 |
| MEDI MFG INC | 1 | 1 | 2 |
| MEDICAGO USA, INC | 2 | 2 | 4 |
| MERCHANTS DISTRIBUTORS , LLC | 1 | 1 | 2 |
| MERCK SHARP & DOHME CORP | 4 | 5 | 9 |
| MERCY HOSPITAL, INC | 1 | 1 | 2 |
| MEREDITH WEBB PRINT | 3 | 3 | 6 |
| MERIDIAN BRICK, LLC | 1 | 1 | 2 |
| MERIDIAN HOSPITALITY HOLDINGS LLC | 1 | 1 | 2 |
| MERIDIAN LABORATORY CORP | 1 | 1 | 2 |
| MERITOR HEAVY VEHICLE SYSTEMS | 1 | 1 | 2 |
| MERITOR HEAVY VEHICLE SYSTEMS LLC | 1 | 1 | 2 |
| MESSER LLC | 1 | 1 | 2 |
| METALS USA CARBON FLAT ROLLED INC | 2 | 2 | 4 |
| METROLINA GREENHOUSES INC | 19 | 19 | 38 |
| MICHELIN AIRCRAFT TIRE CO | 1 | 1 | 2 |
| MICHELIN NORTH AMERICA | 2 | 2 | 4 |
| MIDDLEHOUSE BUILDERS INC | 1 | 0 | 1 |
| MILES TALBOTT | 2 | 2 | 4 |
| MILLIKEN & COMPANY | 2 | 2 | 4 |
| MILLSOURCE INC | 3 | 3 | 6 |
| MINNESOTA MINING & MFG CO | 2 | 2 | 4 |
| MINT MUSEUM OF CRAFT & DESIGN | 1 | 1 | 2 |
| MITCHELL GOLD CO | 4 | 4 | 8 |
| MODERN DENSIFYING | 0 | 2 | 2 |
| MOHICAN MILLS | 0 | 1 | 1 |
| MOM BRANDS COMPANY, LLC | 1 | 1 | 2 |
| MONROE AUTOMOTIVE COMPANY LLC | 1 | 1 | 2 |
| MONROE MARKETPLACE PARTNERS LLC | 1 | 1 | 2 |
| MOORE WALLACE NORTH AMERICA INC | 1 | 1 | 2 |

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|---|----|----|----|
| MOORESVILLE CITY SCHOOLS | 11 | 11 | 22 |
| MORINAGA AMERICA FOODS INC | 0 | 1 | 1 |
| MORRISETTE PAPER COMPANY INC | 2 | 2 | 4 |
| MORTON CUSTOM PLASTICS, LLC | 2 | 2 | 4 |
| MOSES CONE HEALTH SYS | 16 | 16 | 32 |
| MOUNT VERNON MILLS INC | 1 | 2 | 3 |
| MRR HOLDINGS, LLC | 1 | 1 | 2 |
| MULTI SHIFTER INC | 1 | 1 | 2 |
| N C FOAM IND INC | 1 | 1 | 2 |
| NANCY WILLIAMS | 0 | 1 | 1 |
| NATIONAL CONTAINER GROUP | 1 | 1 | 2 |
| NATIONAL GENERAL MANAGMENT CORP. | 4 | 4 | 8 |
| NATIONAL GYPSUM CO | 1 | 1 | 2 |
| NATIONAL PIPE & PLASTIC, INC | 1 | 1 | 2 |
| NATIONAL PIPE & PLASTICS | 2 | 2 | 4 |
| NC A&T UNIV FOUNDATION | 1 | 1 | 2 |
| NC A&T UNIVERSITY | 7 | 6 | 13 |
| NC AIR NATIONL GUARD | 1 | 1 | 2 |
| NC BAPTIST HOSPITAL | 8 | 8 | 16 |
| NC BLUMENTHAL PAC | 2 | 2 | 4 |
| NC CENTRAL UNIVERSITY | 1 | 1 | 2 |
| NC DEPT OF HEALTH & HUMAN SERVICES | 29 | 29 | 58 |
| NC DEPT OF PUBLIC SAFETY | 15 | 18 | 33 |
| NC DOT | 1 | 0 | 1 |
| NC STATE UNIVERSITY | 1 | 1 | 2 |
| NEPTCO INC | 2 | 2 | 4 |
| NETAPP, INC | 2 | 2 | 4 |
| NEW EXCELSIOR, INC | 0 | 1 | 1 |
| NEW SOUTH LUMBER COMPANY INC | 3 | 3 | 6 |
| NEWTON INSTRUMENTS CO INC | 11 | 11 | 22 |
| NFI INDUSTRIES INC | 1 | 1 | 2 |
| NGK CERAMICS USA | 2 | 2 | 4 |
| NIAGARA BOTTLING LLC | 1 | 1 | 2 |
| NORAFIN AMERICAS INC | 2 | 2 | 4 |
| NORDFAB | 5 | 5 | 10 |
| NORDIC WAREHOUSE INC | 1 | 1 | 2 |
| NORDSTROM INC | 2 | 1 | 3 |
| NORFOLK SOUTHERN | 3 | 3 | 6 |
| NORTHERN HOSP OF SURRY CO | 2 | 2 | 4 |
| NORTHROP GRUMMAN GUIDANCE & ELECTRONICS COMP, | 2 | 2 | 4 |
| NOVANT HEALTH INC | 22 | 22 | 44 |
| NOVO NORDISK PHARMACEUTICAL INDUSTRIES, LP | 1 | 1 | 2 |
| NOVOZYMES NORTH AMERICAN INC | 1 | 1 | 2 |
| NR CHARLOTTE LLC | 1 | 1 | 2 |
| NW BALLANTYNE ONE LP | 1 | 1 | 2 |
| NW BALLANTYNE THREE LP | 1 | 1 | 2 |
| NW BALLANTYNE TWO LP | 1 | 1 | 2 |
| NW BETSILL BUILDING LP | 1 | 1 | 2 |
| NW BOYLE BUILDINGS LP | 2 | 2 | 4 |
| NW BRIXHAM GREEN ONE LP | 1 | 1 | 2 |
| NW BRIXHAM GREEN THREE LP | 1 | 1 | 2 |
| NW BRIXHAM GREEN TWO LP | 1 | 1 | 2 |

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|---|---|---|----|
| NW CALHOUN BUILDING LP | 1 | 1 | 2 |
| NW CHANDLER BUILDING LP | 1 | 1 | 2 |
| NW CRAWFORD BUILDING LP | 1 | 1 | 2 |
| NW CULLMAN PARK LP | 1 | 1 | 2 |
| NW EVERETT BUILDING LP | 1 | 1 | 2 |
| NW GRAGG BUILDING LP | 1 | 1 | 2 |
| NW HAYES BUILDING LP | 1 | 1 | 2 |
| NW HIXON BUILDING LP | 1 | 1 | 2 |
| NW IRBY BUILDING LP | 1 | 1 | 2 |
| NW JJH BUILDING LP | 2 | 2 | 4 |
| NW RICHARDSON BUILDING LP | 1 | 1 | 2 |
| NW SIMMONS BUILDING LP | 1 | 1 | 2 |
| NW WINSLOW BUILDING LP | 1 | 1 | 2 |
| NW WOODWARD BUILDING LP | 1 | 1 | 2 |
| NWBH 1 LP | 2 | 2 | 4 |
| NYPRO CAROLINA | 3 | 3 | 6 |
| O T SPORTS IND INC | 1 | 1 | 2 |
| OAK FOREST HEALTH AND REHABILITATION CO | 1 | 1 | 2 |
| OLD CAROLINA BRICK COMPANY | 2 | 2 | 4 |
| OLD RIVER FALLS SEWER | 1 | 1 | 2 |
| O'MARA, INC. | 1 | 1 | 2 |
| OMNISOURCE LLC | 0 | 1 | 1 |
| OMNISOURCE SOUTHEAST | 5 | 5 | 10 |
| OMNOVA SOLUTIONS | 4 | 4 | 8 |
| ONEAL STEEL INC | 4 | 4 | 8 |
| ORANGE WATER & SEWER AUTHORITY | 8 | 8 | 16 |
| OTTO INDUSTRIES | 2 | 2 | 4 |
| OWASA | 9 | 9 | 18 |
| OWENS & MINOR DISTRIBUTION INC | 0 | 1 | 1 |
| OWENS & MINOR INC. | 0 | 2 | 2 |
| OWENS & MINOR MEDICA | 1 | 1 | 2 |
| OWENS ILLINOIS, INC | 2 | 2 | 4 |
| P G MACHINE SHOP | 1 | 1 | 2 |
| PACKRITE LLC | 5 | 5 | 10 |
| PACTIV LLC | 0 | 3 | 3 |
| PALLETONE OF NC | 6 | 6 | 12 |
| PANTHERS STADIUM, LLC | 2 | 0 | 2 |
| PARKDALE AMERICA LLC | 6 | 8 | 14 |
| PARKDALE MILLS, INC | 1 | 2 | 3 |
| PARKER HANNIFIN CORPORATION | 5 | 5 | 10 |
| PARTON LUMBER CO | 6 | 8 | 14 |
| PATHER'S STADIUM, LLC | 1 | 0 | 1 |
| PATRICK YARN MILL | 0 | 1 | 1 |
| PBM GRAPHICS INC | 4 | 4 | 8 |
| PENN ENG & MANF CORP | 2 | 2 | 4 |
| PEPSI BOTTLING VENTURES, LLC | 7 | 7 | 14 |
| PERFORMANCE LIVESTOCK & FEED CO, INC. | 1 | 1 | 2 |
| PERMA TECH INC | 1 | 1 | 2 |
| PHARR YARNS, LLC | 1 | 1 | 2 |
| PHOENIX INDUSTRIES | 0 | 1 | 1 |
| PHONONIC DEVICES, INC | 2 | 2 | 4 |
| PIEDMONT CHEMICAL | 2 | 0 | 2 |

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| | | | |
|--|----|----|----|
| PIEDMONT PUBLISHING | 1 | 1 | 2 |
| PIEDMONT ROW DRIVE, LLC | 11 | 11 | 22 |
| PIEDMONT TRIAD REG WATER AUTH | 0 | 4 | 4 |
| PILGRIM ASSOCIATES | 2 | 2 | 4 |
| PINE HALL BRICK COMPANY, INC | 2 | 2 | 4 |
| PINE NEEDLE LNG COMPANY | 1 | 1 | 2 |
| PIONEER COMMUNITY HOSPITAL OF STOKES | 1 | 0 | 1 |
| PIONEER DIVERSITIES CO | 1 | 1 | 2 |
| PITTSBURGH GLASS WORKS LLC | 0 | 1 | 1 |
| PLYCEM USA, INC | 1 | 1 | 2 |
| PNEUMAFIL CORPORATION | 6 | 0 | 6 |
| POLK COUNTY SCHOOLS | 5 | 4 | 9 |
| POLY PLASTIC PRODUCTS OF NC INC | 4 | 4 | 8 |
| POP MORROCROFT L.P. | 5 | 5 | 10 |
| POPPELMANN PLASTICS USA LLC | 1 | 1 | 2 |
| PowerHouse Recycling Inc. | 1 | 1 | 2 |
| PPG INDUSTRIES INC | 2 | 2 | 4 |
| PRECISION FABRICS GROUP INC | 2 | 2 | 4 |
| PRECISION MATERIALS-BLUE RIDGE LLC | 2 | 2 | 4 |
| PRECOR MANUFACTURING LLC | 1 | 1 | 2 |
| PREFERRED APARTMENT COMMUNITIES OPERATING PART | 6 | 6 | 12 |
| PRESBYTERIAN HOMES, INC | 8 | 8 | 16 |
| PRESBYTERIAN HOSPITAL | 9 | 9 | 18 |
| PRESBYTERIAN MEDICAL CARE CORP | 1 | 1 | 2 |
| PRESCART CORP | 1 | 1 | 2 |
| PRESTIGE FARMS | 1 | 1 | 2 |
| PRESTIGE FARMS INC | 1 | 1 | 2 |
| PRINTCRAFT CO INC | 1 | 1 | 2 |
| PRINTPACK INC | 1 | 1 | 2 |
| PROCTER & GAMBLE MANUFACTURING COMPANY | 5 | 5 | 10 |
| PRODUCTS SE PIPE LINE CORPORATION | 4 | 4 | 8 |
| Proficient Supply LLC | 1 | 1 | 2 |
| PROMISE FOODS INC | 1 | 1 | 2 |
| PRO-SYSTEM, INC | 1 | 1 | 2 |
| PRYSMIAN CABLE AND SYSTEMS USA, LLC | 1 | 1 | 2 |
| PUBLIC LIBRARY MECK CO | 2 | 2 | 4 |
| PUBLIX NORTH CAROLINA LP | 21 | 21 | 42 |
| PUROLATOR FACET INC | 3 | 2 | 5 |
| QG PRINTING II LLC | 4 | 4 | 8 |
| QORVO US , INC | 1 | 1 | 2 |
| QORVO US INC | 1 | 1 | 2 |
| QUALICAPS INC | 3 | 3 | 6 |
| R & R POWDER COATING INC | 1 | 1 | 2 |
| RACK ROOM SHOES | 1 | 1 | 2 |
| RALPH LAUREN CORPORATION | 2 | 2 | 4 |
| RALPHS FRAME WORKS | 2 | 2 | 4 |
| RANDOLPH CO BD OF ED | 0 | 5 | 5 |
| RANDY D MILLER | 6 | 6 | 12 |
| RAUMEDIC INCORPORATED | 1 | 1 | 2 |
| RAYMER BROTHERS INC. | 1 | 1 | 2 |
| RD AMERICA LLC | 1 | 1 | 2 |
| REEP-OFC WATER RIDGE NC HOLDCO LLC | 4 | 4 | 8 |

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|---|----|----|----|
| REMATTR, INC | 2 | 2 | 4 |
| RENWOOD MILLS LLC | 0 | 1 | 1 |
| REPLACEMENTS LTD | 0 | 7 | 7 |
| RESEARCH TRIANGLE INSTITUTE | 0 | 1 | 1 |
| REVOLUTION TENANT, LLC | 2 | 2 | 4 |
| REYNOLDA MANUFACTURING SOLUTIONS, INC | 3 | 3 | 6 |
| RH MANUFACTURING LLC | 2 | 2 | 4 |
| Richa Forsyth LLC | 1 | 1 | 2 |
| RICHA INC | 5 | 5 | 10 |
| RILEY TECHNOLOGIES LLC | 1 | 1 | 2 |
| RITZ CARLTON CHARLOTTE | 1 | 1 | 2 |
| River wood Partners LLc | 1 | 1 | 2 |
| RJ REYNOLDS TOBACCO CO | 5 | 5 | 10 |
| ROCHLING ENGINEERED PLASTICS | 3 | 3 | 6 |
| ROCKINGHAM COMM COLLEGE | 0 | 1 | 1 |
| ROCKINGHAM COUNTY GOVERNMENT | 2 | 2 | 4 |
| ROCKINGHAM COUNTY SCHOOLS | 4 | 4 | 8 |
| ROCK-TENN CONVERTING COMPANY | 1 | 1 | 2 |
| ROGER MARK PENDLETON | 4 | 4 | 8 |
| RONNIE D MILES | 1 | 1 | 2 |
| ROUSH & YATES RACING ENGINES, LLC | 4 | 4 | 8 |
| ROWAN COUNTY | 4 | 4 | 8 |
| ROWAN SALISBURY SCHOOLS | 5 | 0 | 5 |
| RUGGABLE | 1 | 0 | 1 |
| RUTHERFORD HOSPITAL INC | 3 | 3 | 6 |
| SAFT AMERICA | 4 | 4 | 8 |
| SALEM ACADEMY & COLLEGE | 11 | 11 | 22 |
| SALEM BUSINESS PARK | 0 | 1 | 1 |
| SALISBURY MACHINERY | 1 | 1 | 2 |
| SAMS EAST INC | 17 | 17 | 34 |
| SANDVIK CORP | 2 | 2 | 4 |
| SANDY RDG GOLF CLUB | 2 | 2 | 4 |
| SANS TECHNICAL FIBERS, LLC | 4 | 4 | 8 |
| SAP ACQUISITION,LLC | 5 | 5 | 10 |
| SAPA BURLINGTON LLC | 1 | 1 | 2 |
| SARA LEE BAKERY GROUP | 5 | 5 | 10 |
| SCHAEFER SYSTEMS | 7 | 0 | 7 |
| SCHERING-PLOUGH | 1 | 1 | 2 |
| SCHNEIDER MILLS, INC | 1 | 1 | 2 |
| SCM METAL PRODUCTS INC | 3 | 3 | 6 |
| SEALED AIR CORPORATION | 1 | 1 | 2 |
| SEALED AIR CORPORATION (US) | 1 | 1 | 2 |
| SEALED AIR CORPORATION US | 2 | 2 | 4 |
| SEBR 804 LLC | 1 | 1 | 2 |
| SEBR CENTREPORT 101, LLC | 1 | 1 | 2 |
| SEBR CENTREPORT 202 LLC | 1 | 1 | 2 |
| SEBR CENTREPORT LLC | 1 | 1 | 2 |
| SEBR TRIAD DRIVE, LLC | 1 | 1 | 2 |
| SECURITY NATIONAL PROPERTIES HOLDINGS LLC | 1 | 1 | 2 |
| SELEE CORP | 2 | 2 | 4 |
| SELF HELP VENTURES FUND | 1 | 1 | 2 |
| SGL CARBON, LLC | 1 | 1 | 2 |

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| | | | |
|---|---|---|----|
| SHAMROCK CORPORATION | 4 | 0 | 4 |
| SHANER HOTEL GRP LLP | 1 | 1 | 2 |
| SHEETZ DISTRIBUTION SERVICES LLC | 1 | 1 | 2 |
| SHERRILL FURNITURE | 4 | 0 | 4 |
| SHERWIN WILLIAMS COMPANY | 5 | 0 | 5 |
| SHUFORD YARNS,LLC | 2 | 2 | 4 |
| SHURTAPE TECHNOLOGIES | 9 | 9 | 18 |
| SIEMENS ENERGY INC | 2 | 3 | 5 |
| SIEMENS ENERGY, INC | 2 | 2 | 4 |
| SIERRA NEVADA BREWING CO | 1 | 1 | 2 |
| SIMON PROPERTIES GROUP | 2 | 2 | 4 |
| S-L SNACKS NATIONAL , LLC | 1 | 1 | 2 |
| SLANE HOSIERY MILLS INC | 0 | 1 | 1 |
| SNIDER TIRE,INC | 2 | 2 | 4 |
| Snyder's Lance Inc | 1 | 1 | 2 |
| SOCIAL SECURITY ADMINISTRATION | 1 | 1 | 2 |
| SONESTA INTL HOTELS CORP | 1 | 0 | 1 |
| SONOCO CORRFLEX DISPLAY & PACKAGING,LLC | 2 | 2 | 4 |
| SONOCO CRELLIN INC | 2 | 2 | 4 |
| SONOCO PRODUCTS COMPANY | 2 | 3 | 5 |
| SOP 200 N COLLEGE OWNER GP LLC | 1 | 1 | 2 |
| SOUTH COLLEGE STREET LLC | 1 | 1 | 2 |
| SOUTH FORK INDUSTRIES | 2 | 2 | 4 |
| SOUTH GRANVILLE WATER AND SEWER AUTHORITY | 3 | 3 | 6 |
| SOUTHCORR PACKAGING | 1 | 1 | 2 |
| SOUTHEASTERN CONTAINER INC | 0 | 2 | 2 |
| SOUTHERN CAST | 2 | 2 | 4 |
| SOUTHERN CUSTOM SHUTTERS, INC | 1 | 1 | 2 |
| SOUTHERN FURNITURE | 4 | 0 | 4 |
| SOUTHERN METALS CO | 7 | 3 | 10 |
| SOUTHERN PIPE INC | 1 | 1 | 2 |
| SOUTHERN PRECISION SPRING CO INC | 2 | 2 | 4 |
| SOUTHWESTERN COMMUNITY COLLEGE | 1 | 2 | 3 |
| SPARTAN DYERS INC | 2 | 2 | 4 |
| SPECIALIZED PACKAGING FLEXO | 1 | 1 | 2 |
| SPECIALTY MANUFACTURING INC | 1 | 1 | 2 |
| SPECTRUM PROPERTIES MANAGEMENT COMPANY | 6 | 6 | 12 |
| SPEED CHANNEL INC | 1 | 1 | 2 |
| SPENCERS INCORPORATED OF MOUNT AIRY, NC | 1 | 0 | 1 |
| SPORTS MENAGERIE | 2 | 2 | 4 |
| SPORTS SOLUTIONS INC | 2 | 2 | 4 |
| SPRINT | 1 | 1 | 2 |
| SPX FLOW INC. | 1 | 1 | 2 |
| SRE EV Burgess LLC | 3 | 3 | 6 |
| ST LUKES HOSPITAL | 2 | 2 | 4 |
| St. Johns Packaging (USA), Inc. | 3 | 3 | 6 |
| STAMPSOURCE | 1 | 1 | 2 |
| STANDARD TOOLS AND EQUIPMENT | 2 | 2 | 4 |
| STANLEY TOTAL LIVING CENTER | 1 | 1 | 2 |
| STAPLES INC | 2 | 2 | 4 |
| STAR PAPER TUBE INC | 1 | 0 | 1 |
| STARPORT I,LLC | 1 | 1 | 2 |

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| | | | |
|---|----|----|----|
| STARWOOD RETAIL PARTNERS | 1 | 1 | 2 |
| STEEL SPECIALTIES | 2 | 2 | 4 |
| STEWART SUPERABSORBENTS, LLC | 1 | 0 | 1 |
| STONEFIELD CELLARS WINERY LLC | 1 | 1 | 2 |
| STONEVILLE LUMBER CO | 2 | 2 | 4 |
| STURM RUGER & CO INC | 2 | 2 | 4 |
| SUGAR CREEK BREWING COMPANY | 3 | 3 | 6 |
| SUMITOMO ELECTRIC ESC, INC | 1 | 1 | 2 |
| SUMMIT HOTEL TRS 135 LLC | 1 | 1 | 2 |
| SUNCOM WIRELESS PCS, INC | 0 | 3 | 3 |
| SUNTERRACE CASUAL FURNITURE, INC | 2 | 2 | 4 |
| SUNTRUST BANKS INC | 1 | 1 | 2 |
| SV CENTER LLC | 2 | 2 | 4 |
| SWIFT BEEF COMPANY | 1 | 1 | 2 |
| SYCAMORE BREWING LLC | 1 | 1 | 2 |
| SYNCOT PLASTICS, INC | 5 | 5 | 10 |
| SYNERGY BLUERIDGE INVESTMENTS, LLC | 1 | 1 | 2 |
| SYNERGY RECYCLING LLC | 0 | 2 | 2 |
| SYNGENTA CROP PROTECTION, INC | 9 | 9 | 18 |
| SYNGENTA CROP PROTECTION, LLC | 1 | 0 | 1 |
| SYNTAX SYSTEMS USA, LP | 2 | 4 | 6 |
| SYNTEC SEATING SOLUTIONS LLC | 1 | 1 | 2 |
| SYNTHETICS FINISHING | 7 | 7 | 14 |
| T@KINGS MOUNTAIN VII LLC | 1 | 1 | 2 |
| T5@KINGS MOUNTAIN II, LLC | 1 | 1 | 2 |
| TAILORED CHEMICAL PRODUCTS INC | 1 | 1 | 2 |
| TALBERT BUILDING SUPPLY INC | 1 | 1 | 2 |
| TARGET STORES | 21 | 0 | 21 |
| TAYLOR INVESTMENT PROPERTIES, LLC | 3 | 3 | 6 |
| TAYLOR KING FURNITUR | 2 | 1 | 3 |
| TCG OF THE CAROLINAS | 1 | 1 | 2 |
| TDY INDUSTRIES LLC | 1 | 1 | 2 |
| TE CONNECTIVITY CORPORATION | 15 | 15 | 30 |
| TEAM INDUSTRIES | 1 | 1 | 2 |
| TECHNIBILT LTD | 2 | 2 | 4 |
| TECHNICAL PRECISION PLASTICS | 7 | 7 | 14 |
| TECHNIMARK LLC | 11 | 11 | 22 |
| Teijin Automotive Technologies | 3 | 3 | 6 |
| TELERX MARKETING INC | 1 | 1 | 2 |
| TERRA-MULCH PRODUCTS, LLC | 0 | 5 | 5 |
| TEX TECH COATINGS LLC | 4 | 4 | 8 |
| THE CHARLOTTE-MECKLENBURG HOSPITAL AUTHORITY | 2 | 2 | 4 |
| THE CHRISTMAN COMPANY | 2 | 2 | 4 |
| THE CLEARING HOUSE PAYMENTS COMPANY LLC | 1 | 1 | 2 |
| THE CYPRESS OF CHARLOTTE CLUB, INC | 11 | 11 | 22 |
| THE DAVID H MURDOCK CORE LABORATORY BUILDING OV | 1 | 1 | 2 |
| THE EXCHANGE AT MEADOWMOUNT LLC | 1 | 1 | 2 |
| The Fish Warehouse LLC | 1 | 1 | 2 |
| THE INSPIRATIONAL NETWORK INC | 2 | 2 | 4 |
| THE LINCOLN NATIONAL LIFE INSURANCE COMPANY | 2 | 2 | 4 |
| THE MCCLATCHY COMPANY LLC | 1 | 1 | 2 |
| THE NC A&T UNIVERSITY | 1 | 1 | 2 |

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| | | | |
|--|----|----|----|
| THE NC AT UNIVERSITY A&T FOUNDATION LLC | 1 | 1 | 2 |
| THE NC OFFICE OF INFORMATION TECHNOLOGY SERVICES | 3 | 3 | 6 |
| THE POLYMERS CENTER OF EXCELLENCE | 2 | 2 | 4 |
| THE TIMKEN COMPANY | 3 | 3 | 6 |
| THERMOFORM PLASTICS | 1 | 1 | 2 |
| THIEMAN MANUFACTURING TECHNOLOGIES LLC | 1 | 1 | 2 |
| THOMAS BUILT BUSES | 3 | 3 | 6 |
| THOMASVILLE,CITY OF | 3 | 3 | 6 |
| TICONA POLYMERS, INC | 1 | 1 | 2 |
| TIERPOINT, LLC | 6 | 6 | 12 |
| TIGHT LINES PARTNERS LLC | 1 | 1 | 2 |
| TIME WARNER CABLE SE LLC | 15 | 15 | 30 |
| TIME WARNER CABLE, INC. | 1 | 1 | 2 |
| TIMKENSTEEL CORPORATION | 0 | 1 | 1 |
| TKC 19 | 1 | 1 | 2 |
| TKC MANAGEMENT SERVICES | 1 | 1 | 2 |
| TOBACCO WOOD BREWIG COMPANY, LLC | 1 | 1 | 2 |
| TORINGDON OFFICE OWNER LLC | 6 | 6 | 12 |
| TOSAF USA, INC | 1 | 1 | 2 |
| TOSHIBA GLOBAL COMMERCE SOLUTIONS | 0 | 1 | 1 |
| TOWN BREWING COMPANY, LLC | 1 | 1 | 2 |
| TOWN OF CHAPEL HILL | 2 | 0 | 2 |
| TOWN OF HILLSBOROUGH | 2 | 2 | 4 |
| TOWN OF MOORESVILLE | 0 | 2 | 2 |
| TOWN OF VALDESE | 3 | 3 | 6 |
| TR 121 W TRADE LLC | 1 | 1 | 2 |
| TRADE TRYON PLAZA CONDOMINIUM ASSOC INC | 1 | 1 | 2 |
| TRANSCONTINENTAL GAS | 0 | 3 | 3 |
| TRANSCONTINENTAL HOLDING CORP | 11 | 11 | 22 |
| TRANSYLVANIA COMMUNITY HOSPITAL | 1 | 0 | 1 |
| TRANSYLVANIA COUNTY | 1 | 1 | 2 |
| TRANSYLVANIA COUNTY SCHOOLS | 11 | 11 | 22 |
| TRELLEBORG COATED SYSTEMS US, INC | 1 | 1 | 2 |
| TRIAD CENTER GREENSBORO OFFICE, LLC | 1 | 1 | 2 |
| TRIAD HOSPITALITY CORPORATION | 1 | 1 | 2 |
| TRIBAL CASINO GAMING ENTERPRISES HARRAH'S CASINO & | 1 | 0 | 1 |
| TRIDENT GRAPHICS NA LLC | 1 | 1 | 2 |
| TRI-HISHTIL, LLC | 2 | 2 | 4 |
| TRISTONE FLOWTECH USA INC | 1 | 1 | 2 |
| TROPICAL NUT & FRUIT CO | 1 | 0 | 1 |
| TRUIST BANK | 4 | 4 | 8 |
| Truist Bank Trustee Bolding | 11 | 11 | 22 |
| Tryon Cabosparkles LLC | 1 | 1 | 2 |
| TRYON PROPERTY OWNER LLC | 2 | 2 | 4 |
| TUBULAR TEXTILE MACH | 1 | 0 | 1 |
| TURBOCOATING CORP | 1 | 1 | 2 |
| TYSON FARMS INC | 18 | 18 | 36 |
| U S POSTAL SERVICE | 5 | 5 | 10 |
| U.S. COTTON, LLC | 2 | 2 | 4 |
| ULTIMATE TEXTILE INC | 2 | 2 | 4 |
| UNC - CHAPEL HILL | 5 | 5 | 10 |
| UNC CENTER FOR PUBLIC MEDIA | 5 | 5 | 10 |

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| | | | |
|------------------------------------|----|----|----|
| UNC GREENSBORO | 16 | 17 | 33 |
| UNC ROCKINGHAM HEALTH CARE | 3 | 3 | 6 |
| UNC SCHOOL OF THE ARTS | 28 | 28 | 56 |
| UNCC | 0 | 16 | 16 |
| UNC-CHAPEL HILL | 6 | 6 | 12 |
| UNC-CHARLOTTE- FACILITIES MGMT | 9 | 9 | 18 |
| UNC-GREENSBORO | 7 | 7 | 14 |
| UNDERWRITERS LABORATORIES | 1 | 1 | 2 |
| UNIFI INC | 1 | 1 | 2 |
| UNIFI MANUFACTURING, INC | 0 | 5 | 5 |
| UNILIN FLOORING NC LLC | 1 | 1 | 2 |
| UNILIN NORTH AMERICA, LLC | 1 | 1 | 2 |
| UNION COUNTY HABITAT FOR HUMANITY | 1 | 1 | 2 |
| UNIQUETEX | 1 | 1 | 2 |
| UNITED AIR FILTER CO | 4 | 4 | 8 |
| UNITED METAL FINISHING, INC | 3 | 3 | 6 |
| UNITED PARCEL SERV | 3 | 3 | 6 |
| UNITED PLASTICS CORPORATION | 1 | 1 | 2 |
| UNITED STATES COLD STORAGE | 1 | 1 | 2 |
| UNITED THERAPEUTICS CORPORATION | 2 | 2 | 4 |
| UNIVERSAL FOREST PRODUCTS | 2 | 2 | 4 |
| UNIVERSITY OF NC HOSPITALS | 8 | 8 | 16 |
| UNIX PACKAGING LLC | 1 | 0 | 1 |
| UPM - RAFLATAC, INC | 1 | 1 | 2 |
| UPS LOGISTICS | 1 | 1 | 2 |
| US FOODS, INC | 1 | 1 | 2 |
| US NATIONAL WHITEWATER CENTER, INC | 13 | 13 | 26 |
| V F CORPORATION | 2 | 2 | 4 |
| VALASSIS COMMUNICATIONS | 1 | 1 | 2 |
| VALDESE WEAVERS | 6 | 6 | 12 |
| VALLEY HILLS MALL | 8 | 8 | 16 |
| VANGUARD FURNITURE CO INC | 8 | 8 | 16 |
| VECO PLAN, LLC | 0 | 1 | 1 |
| VERIZON COMMUNICATIONS | 3 | 3 | 6 |
| VERIZON WIRELESS | 6 | 6 | 12 |
| VF JEANSWEAR LIMITED PARTNERSHIP | 1 | 1 | 2 |
| VF SERVICES INC | 1 | 1 | 2 |
| VP 300 SB LLC | 1 | 1 | 2 |
| VULCAN CONSTRUCTION MATERIALS, LLC | 50 | 49 | 99 |

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Duke Energy Carolinas, LLC

Evans Exhibit 9B

List of Industrial and Commercial Customers Opted Into Vintage 2021**Docket E-7, Sub 1265**

| Customer Bill Name | Number of Accounts | | GRAND TOTAL |
|---|--------------------------|-------------------------|-------------|
| | DSM YR 21 (Jan 1-Dec 31) | EE YR 21 (Jan 1-Dec 31) | |
| A & T STATE UNIV | | 2 | 2 |
| ABERCROMBIE TEXTILES LLC | 1 | | 1 |
| AIRGAS USA LLC | 1 | | 1 |
| ALADDIN MANUFACTURING CORPORATION | 1 | | 1 |
| ALAMANCE FOODS INC | 5 | | 5 |
| ALDERSGATE | 1 | | 1 |
| ALLOYWORKS, LLC | 5 | | 5 |
| ALLTEL MOBILE | 1 | | 1 |
| AMERICAN & EFIRD LLC | 1 | | 1 |
| AMERICAN AIRLINES | | 3 | 3 |
| AT&T BELLSOUTH | | 2 | 2 |
| B/E AEROSPACE, INC | 4 | | 4 |
| BAKER INTERIORS FURNITURE COMPANY | 4 | | 4 |
| BANK OF AMERICA | | 1 | 1 |
| BELLSOUTH BSC | | 9 | 9 |
| BEMIS MANUFACTURING CO | 2 | | 2 |
| BEOCARE INC | 1 | | 1 |
| BERRY TRI PLASTICS | 1 | | 1 |
| BISSELL COMPANIES | | 13 | 13 |
| BLOW MOLDED SOLUTIONS LLC | 2 | | 2 |
| BLUE RIDGE COMMUNITY COLLEGE | | 2 | 2 |
| BRI 1875 MERIDIAN, LLC | | 4 | 4 |
| BROAD RIVER WATER AUTHORITY | | 1 | 1 |
| BURKE COUNTY SCHOOLS | | 9 | 9 |
| BURLINGTON COAT FACTORY | | 1 | 1 |
| CARAUSTAR INC | | 2 | 2 |
| CARAUSTAR IND & CONSUMER PRODUCTS GROUP | | 1 | 1 |
| CAROLINAS HEALTHCARE SYSTEM | | 2 | 2 |
| CASCADE DIE CASTING GRP INC | 2 | 0 | 2 |
| CATAWBA COUNTY SCHOOLS | | 6 | 6 |
| CCL LABEL INC | 3 | | 3 |
| CELGARD, LLC | | 2 | 2 |
| CENTRAL REGIONAL HOSPITAL | 5 | | 5 |
| CENTURY FURNITURE, LLC | 7 | | 7 |
| CERTAINTED CORP | 2 | | 2 |
| CHAPEL HILL/CARRBORO SCHOOLS | | 45 | 45 |
| CHARLOTTE COUNTRY DAY SCHOOL | | 7 | 7 |
| CITY OF ASHEVILLE | 1 | | 1 |
| CITY OF CHARLOTTE | 15 | | 15 |
| CITY OF EDEN | 2 | | 2 |
| CITY OF GREENSBORO | 2 | | 2 |
| CITY OF HENDERSONVILLE | 1 | | 1 |
| CITY OF KANNAPOLIS | 1 | | 1 |
| CITY OF LENOIR | 2 | | 2 |
| CITY OF SALISBURY | | 1 | 1 |
| CITY OF WINSTON-SALEM | 5 | | 5 |
| CLEMENT PAPPAS NC, INC | | 1 | 1 |

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| | | | |
|--|---|-----|-----|
| CLEVELAND COUNTY SCHOOLS | | 3 | 3 |
| CMBE | | 173 | 173 |
| COLONIAL PIPELINE | 5 | | 5 |
| CONSOLIDATED METCO INC | 1 | | 1 |
| CORE SCIENTIFIC INC | 1 | | 1 |
| CPCC | | 6 | 6 |
| DAIMLER TRUCKS NORTH AMERICA, LLC | | 4 | 4 |
| DAVIDSON WATER INC | 1 | | 1 |
| DEERE HITACHI CONST MACH | | 2 | 2 |
| DUKE UNIVERSITY HEALTH SYSTEM INC | | 1 | 1 |
| DURHAM PUBLIC SCHLS | | 11 | 11 |
| DURHAM PUBLIC SCHOOLS | | 93 | 93 |
| DURHAM TECH COMM COL | | 2 | 2 |
| ELASTIC FABRICS OF AMERICA | | 1 | 1 |
| ELEVATE TEXTILES, INC | 1 | | 1 |
| ESSENTRA PACKAGING US, INC | 4 | | 4 |
| FIBER & YARN PRODUCTS, INC | 1 | | 1 |
| FIBER COMPOSITES CORPORATION | 2 | | 2 |
| FLETCHER HOSPITAL, INC. | 1 | | 1 |
| FOOD LION | 2 | | 2 |
| FORSYTH TECHNICAL COLLEGE | | 2 | 2 |
| FRONTIER YARNS, INC | 2 | | 2 |
| GASTON COUNTY SCHOOLS | | 2 | 2 |
| GENPAK LLC | 1 | | 1 |
| GILBARCO INC | | 1 | 1 |
| GILDAN ACTIVEWEAR (EDEN) INC | | 2 | 2 |
| GILDAN YARNS, LLC | 1 | | 1 |
| GOODWILL INDUSTRIES OF NW NC | 1 | | 1 |
| GREENSBORO COLLEGE | | 9 | 9 |
| GREER LABORATORIES INC | | 4 | 4 |
| GUILFORD COLLEGE | | 12 | 12 |
| GUILFORD COUNTY SCHOOLS | | 3 | 3 |
| HANCOCK & MOORE, LLC | 6 | | 6 |
| HANES COMPANIES INC | 1 | | 1 |
| HASHMASTER TECH, LLC | 1 | | 1 |
| HERBALIFE INTERNATIONAL OF AMERICA INC | | 1 | 1 |
| HICKORY CITY SCHOOLS | | 12 | 12 |
| HICKORY SPRINGS MANUFACTURING COMPANY | 1 | | 1 |
| HIGH COUNTRY LUMBER AND MULCH LLC | 2 | | 2 |
| HIGHWOODS REALTY LIMITED PARTNERSHIP | | 14 | 14 |
| HIGHWOODS REALTY LTP | | 1 | 1 |
| HOME DEPOT | | 16 | 16 |
| HONDA POWER EQUIPMENT MFG, INC | 1 | | 1 |
| IBM CORPORATION | 1 | | 1 |
| IGM RESINS USA INC | 1 | | 1 |
| INSTITUTION FOOD HOUSE, INC | | 1 | 1 |
| IPEX USA, INC | 1 | | 1 |
| JOHN UMSTEAD HOSPITAL | 5 | | 5 |
| JOHNSON CONTROLS INC | | 2 | 2 |
| JPS COMPOSITE MATERIALS CORP | 1 | | 1 |
| KOHL'S DEPARTMENT STORES | 1 | | 1 |
| L S STARRETT CO | 1 | | 1 |
| LANXESS CORP | 3 | | 3 |

| | | | |
|--|---|----|----|
| LEXINGTON FURNITURE IND | 1 | | 1 |
| LOWE'S HOME CENTERS, INC | | 54 | 54 |
| LOWES OF FRANKLIN #717 | | 3 | 3 |
| LOWE'S OF FRANKLIN #717 | | 1 | 1 |
| LYDALL THERMAL ACOUSTICAL INC | | 3 | 3 |
| MARRIOTT INTERNATIONAL INC | 2 | | 2 |
| MARTIN MARIETTA MATERIALS INC | 4 | | 4 |
| MAUSER CORP | 4 | | 4 |
| MCCREARY MODERN INC | | 7 | 7 |
| MCDOWELL HOSPITAL INC | | 1 | 1 |
| MDI MANAGEMENT | | 1 | 1 |
| MECK AREA CATH SCHLS | 3 | | 3 |
| MECKLENBURG CO GENERAL SERVICE DEPT | | 2 | 2 |
| MECKLENBURG COUNTY | | 6 | 6 |
| MECKLENBURG COUNTY-CRISIS ASSISTANCE MIN | | 3 | 3 |
| MODERN DENSIFYING | 2 | | 2 |
| MORINAGA AMERICA FOODS INC | 1 | | 1 |
| NC A&T UNIVERSITY | | 1 | 1 |
| NC DEPT OF PUBLIC SAFETY | 3 | | 3 |
| NEW EXCELSIOR, INC | 1 | | 1 |
| NEW GENERATION YARNS | 1 | | 1 |
| OMNISOURCE LLC | 1 | | 1 |
| OWENS & MINOR DISTRIBUTION INC | 1 | | 1 |
| P G DRY KILN CO | 1 | | 1 |
| PACTIV LLC | 3 | | 3 |
| PANTHERS STADIUM, LLC | | 2 | 2 |
| PARKDALE AMERICA LLC | 2 | | 2 |
| PARKDALE MILLS, INC | 1 | | 1 |
| PARTON LUMBER CO | 2 | | 2 |
| PATRICK YARN MILL | 1 | | 1 |
| PHOENIX INDUSTRIES | 1 | | 1 |
| PIEDMONT CHEMICAL | | 1 | 1 |
| PIEDMONT TRIAD REG WATER AUTH | 4 | | 4 |
| PITTSBURGH GLASS WORKS LLC | 1 | | 1 |
| PNEUMAFIL CORPORATION | 5 | | 5 |
| POLK COUNTY SCHOOLS | | 1 | 1 |
| PUROLATOR FACET INC | | 1 | 1 |
| RENWOOD MILLS LLC | 1 | | 1 |
| RESEARCH TRIANGLE INSTITUTE | 1 | | 1 |
| ROWAN SALISBURY SCHOOLS | | 5 | 5 |
| RUTHERFORD COUNTY SCHOOLS | | 1 | 1 |
| SALEM BUSINESS PARK | 1 | | 1 |
| SCHAEFER SYSTEMS | | 7 | 7 |
| SHAMROCK CORPORATION | | 4 | 4 |
| SHERRILL FURNITURE | 2 | | 2 |
| SIEMENS ENERGY INC | 1 | | 1 |
| SLANE HOSIERY MILLS INC | 1 | | 1 |
| SOUTHEASTERN CONTAINER INC | 2 | | 2 |
| SOUTHERN METALS CO | | 4 | 4 |
| STAR PAPER TUBE INC | | 1 | 1 |
| SUNCOM WIRELESS PCS, INC | 3 | | 3 |
| SWAIN COUNTY SCHOOLS | | 6 | 6 |
| SYNERGY RECYCLING LLC | 2 | | 2 |

| | | | |
|--|-----|-----|-----|
| SYNGENTA CROP PROTECTION, LLC | | 1 | 1 |
| SYNTAX SYSTEMS USA, LP | 2 | | 2 |
| TARGET STORES | | 17 | 17 |
| TE CONNECTIVITY CORPORATION | 1 | | 1 |
| TERRA-MULCH PRODUCTS, LLC | 1 | | 1 |
| TJX COMPANIES | 3 | | 3 |
| TOWN OF MOORESVILLE | 2 | | 2 |
| TRANSCONTINENTAL GAS | 1 | | 1 |
| TRANSYLVANIA COMMUNITY HOSPITAL | | 1 | 1 |
| TRIBAL CASINO GAMING ENTERPRISES HARRAH' | | 1 | 1 |
| TUBULAR TEXTILE MACH | 1 | | 1 |
| UNIFI MANUFACTURING, INC | 2 | | 2 |
| UNIX PACKAGING LLC | 1 | | 1 |
| VULCAN CONSTRUCTION MATERIALS, LLC | | 1 | 1 |
| WAL-MART STORES EAST,LP | 1 | | 1 |
| WELLS FARGO BANK NA | 5 | | 5 |
| WEXFORD WINSTON-SALEM HOLDING, LLC | 1 | | 1 |
| WINSTON-SALEM/FORSYTH CO SCHOOLS | 4 | | 4 |
| ZINK IMAGING INC | | 1 | 1 |
| Grand Total | 204 | 627 | 831 |

Duke Energy Carolinas, LLC
Shared Savings Incentive Calculation
Docket Number E-7 Sub 1265
Estimate January 1, 2023 - December 31, 2023

| | | <u>System</u> |
|--|------------------|-----------------------|
| NPV of AC - Res EE ¹ | | \$ 111,543,961 |
| NPV of AC - Income Qualified EE | | 6,733,294 |
| NPV of AC - Non Res EE | | 218,468,348 |
| NPV of AC - DSM | | 142,656,626 |
| Total NPV of Avoided Costs | A | \$ 479,402,228 |
| Program Costs - Res EE ¹ | | \$ 50,358,015 |
| Program Costs - Income Qualified EE | | 8,826,241 |
| Program Costs - Non Res EE | | 62,345,286 |
| Program Costs - DSM | | 34,793,612 |
| Total Program Costs | B | \$ 156,323,153 |
| Net Savings | C=A-B | \$ 323,079,075 |
| Sharing Percentage | D | 10.60% |
| Shared Savings - Res EE ¹ | | \$ 6,485,710 |
| Shared Savings - PRI Res EE ² | | 713,729 |
| Shared Savings - Non Res EE | | 16,549,045 |
| Shared Savings - DSM | | 11,433,480 |
| Total Shared Savings | E=(A-B)*D | \$ 35,181,963 |

1) Excludes AC and Program Costs associated with Income Qualified Energy Efficiency and Weatherization Assistance programs.

2) Includes the Res EE Programs associated with Income Qualified Energy Efficiency and Weatherization Assistance.

These programs earn a PRI, Program Return Incentive, calculated on the NPV of Avoided Cost.

EM&V Activities**Planned Evaluation, Measurement and Verification (EM&V) Activities through the rate period (Dec. 31, 2022)**

Evaluation is a term adopted by Duke Energy Carolinas (DEC), and refers generally to the systematic process of gathering information on program activities, quantifying energy and demand impacts, and reporting overall effectiveness of program efforts. Within evaluation, the activity of measurement and verification (M&V) refers to the collection and analysis of data at a participating facility/project. Together this is referred to as "EM&V."

Refer to the accompanying Evans Exhibit 12 chart for a schedule of process and impact evaluation analysis and reports that are currently scheduled.

Energy Efficiency Portfolio Evaluation

DEC has contracted with independent, third-party evaluation consultants to provide the appropriate EM&V support, including the development and implementation of an evaluation plan designed to measure the energy and demand impacts of the residential and non-residential energy efficiency programs.

Typical EM&V activities:

- Develop evaluation action plan
- Process evaluation interviews
- Collect program data
- Verify measure installation and performance through surveys and/or on-site visits
- Program database review
- Impact data analysis
- Reporting

The process evaluation provides unbiased information on past program performance, current implementation strategies and opportunities for future program improvements. Typically, the data collection for process evaluation consists of surveys with program management, implementation vendor(s), program partner(s), and participants; and, in some cases, non-participants. A statistically representative sample of participants will be selected for the analysis.

The impact evaluation provides energy and demand savings resulting from the program. Impact analysis may involve engineering analysis (formulas/algorithms), billing analysis, statistically adjusted engineering methods, and/or building simulation models, depending on the program and the nature of the impacts. Data collection may involve surveys and/or site visits. A statistically representative sample of participants is selected for the analysis. Duke Energy Carolinas intends to follow industry-accepted methodologies for all measurement and

verification activities, consistent with International Performance Measurement Verification Protocol (IPMVP) Options A, C or D depending on the measure.

The field of evaluation is constantly learning from ongoing data collection and analysis, and best practices for evaluation, measurement and verification continually evolve. As updated best practices are identified in the industry, DEC will consider these and revise evaluation plans as appropriate to provide accurate and cost-effective evaluation.

Demand Response Program Evaluation

DEC has contracted with independent, third-party evaluation consultants to provide an independent review of the evaluation plan designed to measure the demand impacts of the residential and non-residential demand response programs and the final results of that evaluation.

Typical EM&V activities:

- Collect program data
- Process evaluation interviews
- Verify operability and performance through on-site visits
- Collect interval data
- Program database review
- Benchmarking research
- Dispatch optimization modeling
- Impact data analysis
- Reporting

The process evaluation provides unbiased information on past program performance, current implementation strategies and opportunities for future improvements. Typically, the data collection for process evaluation consists of surveys with program management, implementation vendor(s), program partner(s), and participants; and, in some cases, non-participants. A statistically representative sample of participants will be selected for the analysis.

The impact evaluation provides demand savings resulting from the program. Impact analysis for Power Manager involves a simulation model to calculate the duty cycle reduction, and then an overall load reduction. Impact analysis for PowerShare involves statistical modeling of an M&V baseline load shape for a customer, then modeling the event period baseline load shape and comparing to the actual load curve of the customer during the event period.

The field of evaluation is constantly learning from ongoing data collection and analysis, and best practices for evaluation, measurement and verification continually evolve. As updated best practices are identified in the industry, DEC will consider these and revise evaluation plans as appropriate to provide accurate and cost-effective evaluation.

EM&V EFFECTIVE DATE TIMELINE

This chart contains the expected timeline with end of customer data sample period for impact evaluation and when the impact evaluation report is expected to be completed.
Unless otherwise noted, original impact estimates are replaced with the first impact evaluation results, after which time subsequent impact evaluation results are applied prospectively.

| Program | Program/Measure | 2015 | | | | 2016 | | | |
|---|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 |
| Appliance Recycling | Refrigerator, Freezer | | | 2nd EM&V | Report | | | | |
| Energy Efficiency Education (K12 Curriculum) | Energy Efficiency Education (K12 Curriculum) | | | 3rd EM&V | Report | | | | |
| Energy Efficient Appliance and Devices | Lighting - Smart Saver RCFL | | | 3rd EM&V | Report | | | | |
| | Lighting - Specialty Bulbs | | | | | | | | |
| | SF Water EE Products | | | 1st EM&V | Report | | | | |
| | HP Water Heater & Pool Pumps | | | | | | | | |
| HVAC Energy Efficiency | Residential Smart Saver AC and HP | | | | | | | | |
| Income-Qualified Energy Efficiency | Tune & Seal Measures | | | | | | | | |
| | Weatherization | | | | | | | | |
| | Refrigerator Replacement | | | | | | | | |
| Multi-Family Energy Efficiency | Low Income Neighborhood | | | | | | | 2nd EM&V | Report |
| | MF Water EE Products | | | 1st EM&V | Report | | | 2nd EM&V | Report |
| | Lighting (CFL Property Manager) | | | | | | | | 3rd EM&V |
| My Home Energy Report | MyHER | | | | | | | | |
| Residential Energy Assessments | Home Energy House Call | | | | | | | | |
| Non-Residential Smart Saver Energy Efficiency Custom | Non-Res SmartSaver Custom Rebate | | | | | | | | |
| Non-Residential Smart Saver Energy Efficiency Food Service | Non-Res Smart Saver Energy Efficiency Food Service | | | | 2nd EM&V | | | | 2nd EM&V |
| Non-Residential Smart Saver Energy Efficiency HVAC Products | Non-Res Smart Saver Energy Efficiency HVAC Products | | | | 2nd EM&V | Report | | | |
| Non-Residential Smart Saver Energy Efficiency Lighting | Non Re Smart Saver Prescriptive Lighting | | | | | | | | |
| | Non Res Smart Saver Prescriptive Other | | | | | | | 1st EM&V | Report |
| Non-Residential Smart Saver Energy Efficiency Motors Pumps Drives | Non-Res SmartSaver Prescriptive (VFDs or other) | | | | 2nd EM&V | | | | |
| Non-Residential Smart Saver Energy Efficiency Process Equipment | Non-Res Smart Saver Energy Efficiency Process Equip | | | | 2nd EM&V | | | | |
| Small Business Energy Saver | SBES | | | | | | | | |
| Smart Energy in Offices | SEiO | | | | | | | | |

Key

| |
|----------------------|
| Original Estimate |
| 1 st EM&V |
| 2 nd EM&V |
| 3 rd EM&V |
| 4 th EM&V |
| 5 th EM&V |
| 6 th EM&V |

| Program | Program/Measure | 2017 | | | | 2018 | | | | 2019 | | | | 2020 | | | |
|--|--|-----------|-----------|-----------|-----------|----------------------|-----------|----------------------|----------------------|----------------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 |
| Appliance Recycling | Refrigerator, Freezer | | | | | | | | | | | | | | | | |
| Energy Efficiency Education (K12 Curriculum) | Energy Efficiency Education (K12 Curriculum) | | | | | | | | 4 th EM&V | Report | | | | | | | 5 th EM&V |
| Energy Efficient Appliance and Devices | Lighting - Smart Saver RLED (Free LED) | | | 1st EM&V | Report | | | | | | | | | | | | |
| | Lighting - Smart Saver Retail | | | | | 1st EM&V | Report | | | | | | | | | | |
| | Lighting - Specialty Bulbs | | | | | | | 2nd EM&V | Report | | | | | | | | |
| | SF Water EE Products | | | 2nd EM&V | Report | | | | | | | | 3 rd EM&V | 3 rd EM&V | Report | | |
| HVAC Energy Efficiency | HP Water Heater & Pool Pumps | | | | | 1 st EM&V | Report | | | | | | | | | | |
| Income-Qualified Energy Efficiency | Referral and Non-Referral HVAC Measures | | | | | 2nd EM&V | Report | | | | | | | | | | |
| | Weatherization | | | | | 1st EM&V | Report | | | | | | | | | 2 nd EM&V | 2 nd EM&V |
| | Refrigerator Replacement | | | | | 1st EM&V | Report | | | | | | | | | 2 nd EM&V | 2 nd EM&V |
| Multi-Family Energy Efficiency | Low Income Neighborhood | | | | | | | | | | | | | | | 2 nd EM&V | 2 nd EM&V |
| | Lighting & Water EE Products | | | | | | | | | | | | 3 rd EM&V | Report | | | |
| | MyHER | Report | | | | | | | | 4 th EM&V | Report | | | | | | |
| Residential Energy Assessments | Home Energy House Call | | | | | | | 3 rd EM&V | Report | | | | | | | | |
| Business Energy Reports | BER | | | | 1st EM&V | Report | | | | Report | | | | | | | |
| EnergyWise Business | EnergyWise Business (EE measure) | 1st EM&V | Report | | | | 2nd EM&V | Report | | | | | 3 rd EM&V | 3 rd EM&V | 3 rd EM&V | 3 rd EM&V | 3 rd EM&V |
| Non-Residential Smart Saver Energy Efficiency Custom | Custom Rebate & Custom Assessment | Report | | | | | | 3 rd EM&V | Report | | | | | | | 4 th EM&V | Report |
| Non-Residential Smart Saver Prescriptive | All Prescriptive Technologies | | | | | 3 rd EM&V | Report | | | | | | 4 th EM&V | 4 th EM&V | 4 th EM&V | Report | |
| Non-Residential Energy Assessment | | | 1st EM&V | Report | | | | | | | | | | | | | |
| Small Business Energy Saver | SBES | | | | | | 2nd EM&V | Report | | | | | | | | | 3 rd EM&V |
| Smart Energy in Offices | SEiO | | | 1st EM&V | Report | | | | | | | | | | | | |

Note: Residential Smart Saver AC and HP and Non-Residential Prescriptive lighting measures have completed a additional EM&V report in the past. Future reports combine measures for the respective programs.

| Program | Program/Measure | 2021 | | | | 2022 | | | | 2023 | | | |
|--|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 |
| Appliance Recycling | Refrigerator, Freezer | | | | | | | | | | | | |
| Energy Efficiency Education (K12 Curriculum) | Energy Efficiency Education (K12 Curriculum) | 5 th EM&V | 5 th EM&V | Report | | | | | 6 th EM&V | 6 th EM&V | 6 th EM&V | Report | |
| Energy Efficient Appliance and Devices | Lighting - Smart Saver RLED (Free LED) | - | - | - | - | - | - | - | - | - | - | - | - |
| | Lighting - Smart Saver Retail | | | | | | 2 nd EM&V | 2 nd EM&V | Report | | | | |
| | Lighting - Specialty Bulbs/Retail Marketplace | | 3 rd EM&V | 3 rd EM&V | Report | | | | | | 4 th EM&V | 4 th EM&V | Report |
| | SF Water EE Products | | 4 th EM&V | 4 th EM&V | 4 th EM&V | 4 th EM&V | Report | | | | | 5 th EM&V | 5 th EM&V |
| | HP Water Heater & Pool Pumps | | | | | | 2 nd EM&V | 2 nd EM&V | 2 nd EM&V | 2 nd EM&V | Report | | |
| HVAC Energy Efficiency | Referral and Non-Referral HVAC Measures | | | | | | 3 rd EM&V | 3 rd EM&V | 3 rd EM&V | 3 rd EM&V | Report | | |
| Income-Qualified Energy Efficiency | Weatherization | 2 nd EM&V | Report | | 3 rd EM&V | 3 rd EM&V | 3 rd EM&V | 3 rd EM&V | Report | | | 4 th EM&V | 4 th EM&V |
| | Refrigerator Replacement | 2 nd EM&V | Report | | 3 rd EM&V | 3 rd EM&V | 3 rd EM&V | 3 rd EM&V | Report | | | 4 th EM&V | 4 th EM&V |
| | Low Income Neighborhood | 4 th EM&V | 4 th EM&V | 4 th EM&V | 4 th EM&V | Report | | | 5 th EM&V | 5 th EM&V | 5 th EM&V | 5 th EM&V | 5 th EM&V |
| Multi-Family Energy Efficiency | Lighting & Water EE Products | 4 th EM&V | 4 th EM&V | 4 th EM&V | 4 th EM&V | 4 th EM&V | Report | | | 5 th EM&V | 5 th EM&V | 5 th EM&V | 5 th EM&V |
| My Home Energy Report | MyHER | 5 th EM&V | 5 th EM&V | 5 th EM&V | 5 th EM&V | Report | | | | 6 th EM&V | 6 th EM&V | 6 th EM&V | 6 th EM&V |
| Residential Energy Assessments | Home Energy House Call | | | | | 4 th EM&V | 4 th EM&V | 4 th EM&V | 4 th EM&V | Report | | | |
| Business Energy Reports | BER | - | - | - | - | - | - | - | - | - | - | - | - |
| EnergyWise Business | EnergyWise Business (EE measure) | Report | | | | | 4 th EM&V | 4 th EM&V | 4 th EM&V | Report | | | |
| Non-Residential Smart Saver Energy Efficiency Custom | Custom Rebate & Custom Assessment | 4 th EM&V | 4 th EM&V | 4 th EM&V | 4 th EM&V | 4 th EM&V | Report | | 5 th EM&V | 5 th EM&V | 5 th EM&V | 5 th EM&V | 5 th EM&V |
| Non-Residential Smart Saver Prescriptive | All Prescriptive Technologies | | 5 th EM&V | 5 th EM&V | 5 th EM&V | 5 th EM&V | 5 th EM&V | 5 th EM&V | Report | | | | |
| Non-Residential Energy Assessment | | | | | | | | | | | | | |
| Small Business Energy Saver | SBES | 3 rd EM&V | Report | | | | | | | 4 th EM&V | 4 th EM&V | 4 th EM&V | Report |
| Smart Energy in Offices | SEiO | | | | | | | | | | | | |

Duke Energy Carolinas, LLC
January 1, 2021 - December 31, 2021
Docket Number E-7, Sub 1205
Actual Program and Avoided Costs, January 1, 2016 - December 31, 2021

| Market | Program | 2016 | | 2017 | | 2018 | | 2019 | | 2020 | | 2021 | |
|-----------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | Program Costs | Avoided Costs | Program Costs | Avoided Costs | Program Costs | Avoided Costs | Program Costs | Avoided Costs | Program Costs | Avoided Costs | Program Costs | Avoided Costs |
| Residential | Appliance Recycling Program | \$ (87,397) | \$ 50,758 | \$ 5,307 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Residential | Energy Assessments | 2,678,893 | 6,822,806 | 2,909,098 | 6,602,773 | 2,836,229 | 5,756,145 | 3,153,757 | 4,413,585 | 3,358,880 | 4,582,748 | 3,126,179 | 3,278,832 |
| Residential | Energy Efficiency Education | 2,125,509 | 3,695,507 | 2,077,611 | 3,307,724 | 1,892,360 | 2,883,133 | 1,644,077 | 2,519,645 | 1,113,485 | 1,317,408 | 1,147,503 | 1,533,478 |
| Residential | Energy Efficient Appliances and Devices | 24,068,714 | 82,262,218 | 30,340,728 | 105,352,687 | 42,687,244 | 135,880,645 | 40,433,531 | 101,640,687 | 22,124,101 | 60,873,143 | 10,824,171 | 26,474,094 |
| Residential | Income Qualified Energy Efficiency and Weatherization Assistance | 4,792,436 | 2,884,760 | 5,505,992 | 3,185,867 | 6,490,735 | 4,253,631 | 7,344,325 | 3,570,760 | 2,787,490 | 1,094,864 | 4,634,161 | 1,452,358 |
| Residential | Multi-Family Energy Efficiency | 2,518,988 | 8,950,206 | 1,168,422 | 13,539,036 | 3,004,921 | 13,613,228 | 3,681,262 | 10,815,609 | 6,613,839 | 2,156,883 | 517,454 | 998,893 |
| Residential | My Home Energy Report | 10,822,444 | 20,423,954 | 13,812,250 | 21,728,369 | 12,765,286 | 22,682,074 | 10,558,344 | 23,361,954 | 12,749,651 | 23,957,859 | 7,072,233 | 21,313,709 |
| Residential | Power Manager | 13,644,970 | 54,179,776 | 14,023,500 | 61,074,105 | 14,423,610 | 61,820,744 | 13,386,942 | 69,783,157 | 14,303,277 | 74,785,083 | 16,829,058 | 57,584,854 |
| Residential | Residential - Smart-Saver Energy Efficiency Program | 7,829,568 | 2,676,100 | 7,403,327 | 7,287,703 | 6,955,146 | 7,087,728 | 7,402,507 | 7,079,940 | 7,538,303 | 7,811,423 | 8,156,036 | 8,400,755 |
| Non-Residential | Business Energy Report | 263,168 | 502,497 | 126,680 | 696 | - | - | - | - | - | - | - | - |
| Non-Residential | Energy Management Information Services | - | - | - | - | - | - | - | - | - | - | - | - |
| Non-Residential | EnergyWise for Business (Non-Residential) | 470,404 | 176,580 | 2,484,638 | 2,520,763 | 2,062,816 | 2,279,639 | 2,087,462 | 2,228,428 | 2,941,292 | 2,121,823 | 2,463,194 | 1,964,689 |
| Non-Residential | Non-Residential Smart-Saver Custom | 7,356,509 | 39,625,086 | 7,350,838 | 34,693,083 | 6,068,902 | 23,319,056 | 8,873,872 | 35,884,367 | 5,775,790 | 15,988,503 | 7,505,201 | 19,324,372 |
| Non-Residential | Non-Residential Smart-Saver Energy Efficient IT Products | 285,430 | 777,603 | 61,215 | 523 | 36,875 | 3,035 | 44,335 | 1,385 | 15,129 | 1,734 | 74,699 | 436 |
| Non-Residential | Non-Residential Smart-Saver Energy Efficient Lighting Products | 2,034,308 | 9,522,687 | 2,139,875 | 10,727,302 | 407,293 | 87,287 | 296,026 | 693,285 | 330,629 | 518,862 | 293,539 | 432,138 |
| Non-Residential | Non-Residential Smart-Saver Energy Efficient Food Service Products | 324,117 | 2,674,312 | 306,458 | 863,251 | 235,605 | 631,621 | 339,996 | 612,886 | 533,413 | 230,241 | 203,130 | 479,963 |
| Non-Residential | Non-Residential Smart-Saver Energy Efficient HVAC Products | 1,473,991 | 3,344,669 | 1,560,769 | 2,958,336 | 1,620,748 | 2,809,849 | 2,208,364 | 5,516,665 | 2,450,713 | 7,423,034 | 4,899,800 | 14,900,228 |
| Non-Residential | Non-Residential Smart-Saver Energy Efficient Lifting Products | 89,622,944 | 120,392,639 | 66,089,770 | 240,054,511 | 25,872,380 | 146,116,121 | 20,834,766 | 105,608,459 | 13,098,851 | 71,994,024 | 17,924,291 | 68,949,662 |
| Non-Residential | Non-Residential Smart-Saver Energy Efficient Process Equipment Products | 125,347 | 279,181 | 162,413 | 535,205 | 67,509 | 235,687 | 135,843 | 416,343 | 79,681 | 296,299 | 87,540 | 257,030 |
| Non-Residential | Non-Residential Smart-Saver Energy Efficient Pumps and Drives Products | 473,830 | 1,574,865 | 528,937 | 3,070,064 | 277,785 | 1,617,544 | 389,172 | 720,816 | 367,464 | 757,993 | 202,615 | 666,628 |
| Non-Residential | Non-Residential Smart-Saver Performance Incentive | 35,629 | 320,559 | 8,908 | 479,610 | 1,677,568 | 785,165 | 2,238,186 | 751,724 | 2,035,780 | 842,826 | 4,234,077 | - |
| Non-Residential | Power Share (Non-Residential) | 14,291,024 | 43,889,394 | 13,318,535 | 41,482,644 | 12,922,977 | 36,908,770 | 13,022,816 | 42,072,382 | 12,082,697 | 34,861,439 | 13,583,912 | 42,254,096 |
| Non-Residential | Small Business Energy Saver | 15,360,852 | 55,685,830 | 17,350,972 | 63,189,894 | 15,977,993 | 46,827,038 | 11,421,399 | 25,661,729 | 6,933,130 | 15,515,818 | 8,935,952 | 18,680,538 |
| Non-Residential | Smart Energy in Offices | 1,061,729 | 1,843,559 | 891,010 | 1,067,480 | 215,748 | 143,266 | - | - | - | - | - | - |
| Non-Residential | Disallowed Costs from 2015 Program Costs Audit (Order E-7 Sub 1105, 4) | - | - | - | - | - | - | - | - | - | - | - | - |
| | | \$ 151,574,107 | \$ 466,592,598 | \$ 192,488,915 | \$ 623,387,221 | \$ 159,005,671 | \$ 515,939,051 | \$ 149,428,343 | \$ 445,138,318 | \$ 110,695,578 | \$ 327,954,102 | \$ 109,023,491 | \$ 292,157,811 |

| Costs as Filed in | Docket Number |
|-------------------|---------------|
| 2016 | E-7, Sub 1192 |
| 2017 | E-7, Sub 1230 |
| 2018 | E-7, Sub 1205 |
| 2019 | E-7, Sub 1265 |
| 2020 | E-7, Sub 1265 |
| 2021 | E-7, Sub 1265 |

DEC - 2021 Find It Duke Allocations

Revenue

| | Services | Amount | % of Total Received |
|---|----------------------------|------------|---------------------|
| 1 | Solar | \$ 44,240 | 9.5% |
| 2 | EV Charging | 5,630 | 1.2% |
| 3 | Tree Services ^a | - | 0.0% |
| 4 | Non-DEC Customers | 20,983 | 4.5% |
| 5 | Total Non-DSM/EE | \$ 70,853 | 15.2% |
| 6 | DSM/EE | 395,927 | 84.8% |
| 7 | Overall Total | \$ 466,780 | 100.0% |

Costs

| | | % of Revenue | Total Cost | Allocated Costs |
|----|------------|--------------|------------|-----------------|
| 8 | DSM/EE | 84.8% | \$ 367,271 | \$ 311,522 |
| 9 | Non-DSM/EE | 15.2% | 367,271 | 55,748 |
| 10 | Total Cost | | | \$ 367,271 |

Summary

| | | <u>EE Rev Rqmt</u> | | <u>Non-Utility Allocation</u> | |
|----|--------------------------------|--------------------|-----------------|-------------------------------|-----------------|
| | | <u>Before</u> | <u>Adjusted</u> | <u>Before</u> | <u>Adjusted</u> |
| 11 | Costs | \$ 367,271 | \$ 311,522 | \$ - | \$ 55,748 |
| 12 | Revenues | 466,780 | 395,927 | - | 70,853 |
| 13 | Net Revenue Reqmt | \$ (99,509) | \$ (84,405) | \$ - | \$ (15,105) |
| 14 | Net Impact (Pre-PPI Impact) | | 15,105 | | (15,105) |
| 15 | PPI Impact (@11.5%) | | (1,737) | | - |
| 16 | Net Revenue Requirement Impact | | \$ 13,368 | | \$ (15,105) |

Notes:

^a no tree service revenue in 2021

