

2020 BUILDING ENERGY BENCHMARKING REPORT

1. Introduction

Background

Executive Order Number 1 of 2019 commits Ulster County to decreasing greenhouse gas emissions associated with its operations (through conservation, efficiency, and onsite renewable generation) by 25% by 2025 and 80% by 2050 using the County's 2012 greenhouse gas emission inventory as a baseline. A baseline greenhouse gas (GHG) inventory conducted in 2012 for Ulster County government operations evaluated the energy use and emissions associated with the county vehicle fleet, employee commuting to and from the workplace, and the operations of county owned or occupied facilities. That inventory showed that the buildings & facilities sector alone accounted for 43% of all greenhouse gas emissions, totaling 5,804 metric tons of CO2e.¹ Ulster County's building portfolio consists of 38 properties with gross floor area totaling nearly 875,000 square feet.

Building energy use benchmarking is critical to the achievement of greenhouse gas emissions goals. First, it allows the comparison of weather-normalized energy metrics across time periods to assess the impact of building efficiency improvements. Second, it allows comparison to a national standard (EPA ENERGY STAR®) and average commercial building performance across the United States—helping to identify outlier properties within the Ulster County portfolio, communicate the opportunity for energy efficiency, and focus energy management attention. One of the main goals of this benchmarking report is to consistently track and monitor the energy use and emissions associated with the County's building inventory in order to better inform both operations and planning activities to improve efficiency and reduce costs as possible.

Reporting Requirements

Resolution No. 447 of 2016 established a policy for annual public reporting of building energy consumption for Ulster County-owned or occupied buildings with a gross floor area equal to or greater than 1,000 square feet. This policy requires public reporting of the following building performance metrics no later than September 1st each year:

- Energy Use Intensity (EUI)
- Weather Normalized Source EUI
- Annual Greenhouse Gas emissions
- Energy performance score (when available)

¹ Reference Ulster County Greenhouse Gas Emissions Report, VHB, 2012. Available here: <u>http://ulstercountyny.gov/environment/energy-sustainability</u>

Methodology

Ulster County benchmarks building energy using the EPA's ENERGY STAR Portfolio Manager application, an online tool that tracks energy, water, and waste consumption and calculates a variety of energy performance metrics as well as greenhouse gas emissions. The Portfolio Manager application also calculates weather normalized metrics, a way to remove the impacts of climate differences in year-to-year comparisons. Energy use and emissions data from 2012 has been used as a baseline value for benchmarking purposes, to show progress toward Ulster County's GHG reduction goals.

Electric Vehicle (EV) Charging Stations: Several Ulster County properties have EV charging stations installed on site and configured to draw energy from the building electrical panel. Without any adjustments, this energy would be included in the building energy use metrics and would indicate excess usage as the energy is used to power vehicles and not the building systems. However, using data from the ChargePoint® EV charging station reporting system, this electricity usage can be deducted from the building usage to report an accurate building use total. The portion of this electricity used for fleet vehicles is reported in the Ulster County Green Fleet report annually.

Fixed Usage Area Lighting: Ten Ulster County properties are billed monthly for utilityprovided outdoor area lighting, which is reflected as "*Flat Charge*" usage on the utility invoice for the account and is billed by Central Hudson according to Service Classification Number 5 rates. This usage is included in the metrics for each property with lighting installed. The cost includes fees for the rental of the lighting equipment from Central Hudson. Where applicable, a property use-type of parking and parking area estimate are input in the Portfolio Manager system for improved accuracy in calculating energy use metrics.

Factors and Conversions: The EPA Portfolio Manager application converts all fuel types to a common energy unit—thousands of British thermal units (kBtu)—to allow for aggregation to calculate whole-building energy use. To do so, the Portfolio Manager application applies the thermal conversion factors contained in Table 1 below. This conversion allows the comparison of relative magnitudes of energy use across fuel types as shown in Chart 1.

| Fuel Type | Input Unit | Conversion Factor | | | |
|-----------------------------|------------|--------------------------|--|--|--|
| Electricity (Grid Purchase) | kWh | 3.412 kBtu/kWh | | | |
| Natural Gas | CCF | 102.6 kBtu/CCF | | | |
| Propane | Gallons | 92 kBtu/gal | | | |
| Fuel Oil (No. 2) | Gallons | 138 kBtu/gal | | | |
| Diesel | Gallons | 138 kBtu/gal | | | |
| Wood | Tons (US) | 17,480 kBtu/ton | | | |

Table 1: Conversion Factors²

² Retrieved from:

https://portfoliomanager.energystar.gov/pdf/reference/Thermal%20Conversions.pdf

2. Building Energy Use

Ulster County uses the following energy sources shown in table 2 for heating, cooling, and powering its buildings. Usage and cost data is obtained from the vendor through web applications or data requests.

| Energy Type | Supplier and Data Source | | |
|------------------------------|---|--|--|
| Electricity | Delivery: Central Hudson (web access) | | |
| - | NYSEG (web access & customer service) | | |
| | Supply: Constellation NewEnergy, Inc. (web access via Central | | |
| | Hudson) | | |
| Natural Gas | Delivery: Central Hudson (web access) | | |
| | Supply: Agera Energy, LLC (customer service request) | | |
| | Family Energy, Inc. (web access via Central Hudson) | | |
| Fuel Oil | HOP Energy, LLC (customer service request) | | |
| Propane | Paraco Gas Corp (web access) | | |
| Diesel Fuel (for generators) | HOP Energy, LLC (customer service request) | | |

Table 2: Energy Types and Data Sources - 2020

Currently, energy-use metrics for benchmarking are not calculated for properties where Ulster County leases office space in facilities without sub-metering. In these cases, energy use data for the leased spaces cannot be separated from whole building energy use. Table 3 contains a listing of these spaces as of December 31st, 2020.

| Property | Address | UC Leased Space (sq. ft.) | Total Building Space (sq. ft.) |
|--------------------------------------|---|---------------------------------|-----------------------------------|
| Board of Elections | 284 Wall Street, Kingston, NY | 3,566 | 27,137 |
| Public Defender | 280 Wall Street, Kingston, NY | 4,050 | 27,137 |
| Department of Health - W.I.C. | 230 Aaron Court, Kingston, NY | 2,917 | 9,000 |
| Probation Department | 124 Main Street, New Paltz, NY | 1,308 | 4,920 |
| Office of Employment and Training | 521 Boice's Lane, Kingston, NY | 10,287 | 98,464 |
| Sheriff's Substation Wallkill | 1500 Rt. 208, Wallkill, NY | 711 | 3,840 |
| Sheriff's Substation Mt. Tremper | 146-152 Mt. Pleasant Rd, Mt. Tremper, NY | 2,004 | N/A |
| Sheriff's Substation Shandaken | Town Hall, Rt. 28 | N/A | N/A |
| Sheriff's Substation Port Ewen | Esopus Town Hall, Salem St. | N/A | N/A |

Table 3: Leased Space without Metered Energy Use Data - 2020

Chart 1 shows the relative proportions of total energy contributed by each of the energy types used in Ulster County buildings in 2020.

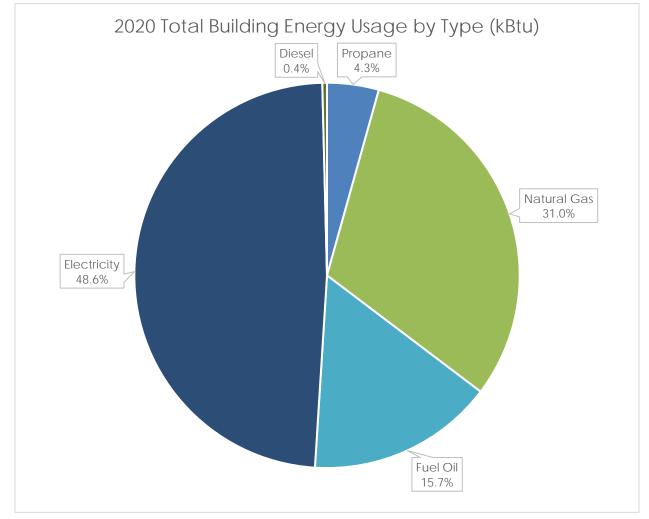


Chart 1: 2020 Total Building Energy Usage by Type (kBtu)

Table 4 shows the quantity of each energy type purchased in 2020 for use in building operations.

| Table 4: 2020 | Energy Purch | hased and | Cost by Type |
|---------------|--------------|-----------|--------------|
| | | | |

| Energy Source | Usage Units | Usage (kBtu) |
|---------------|----------------|--------------|
| Diesel | 2,143 gallons | 295,693 |
| Electricity | 10,774,904 kWh | 36,763,973 |
| Fuel Oil | 85,981 gallons | 11,865,406 |
| Natural Gas | 228,337 CCF | 23,427,379 |
| Propane | 35,643 gallons | 3,279,156 |
| Total | | 75,631,606 |

Table 5 shows the purchased energy at each of the Ulster County properties reported. Energy purchased has been converted to the common unit of kBtu for comparison.

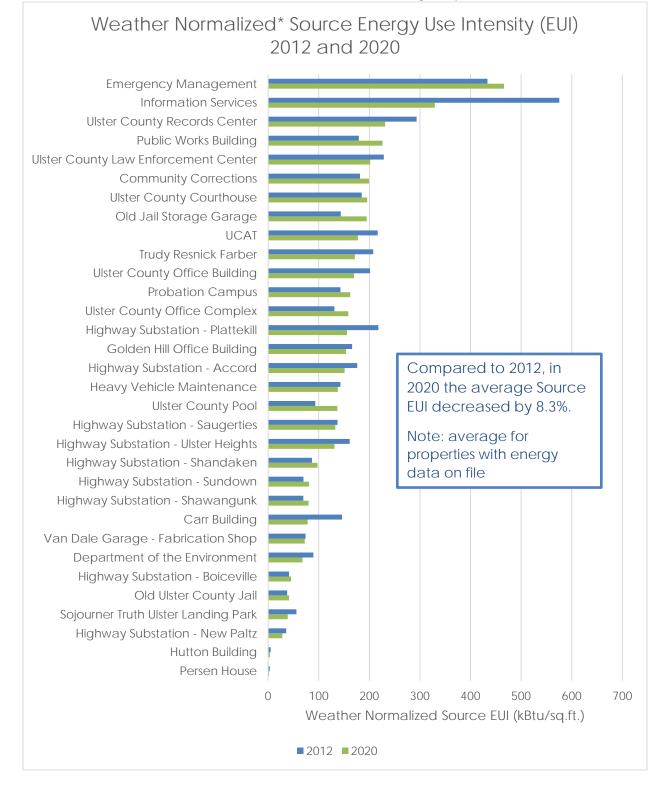
| Property | Gross Floor Area (sq. ft.) | Source Energy Use (kBtu) | Source EUI (kBtu/ft²) | |
|--|-------------------------------|-----------------------------|--------------------------|--|
| Carr Building | 5,438 | 424,857 | 78.1 | |
| Community Corrections | 7,700 | 1,534,558 | 199.3 | |
| Department of the Environment | 4,229 | 255,082 | 60.3 | |
| Emergency Management | 3,537 | 1,648,031 | 465.9 | |
| Golden Hill Office Building | 39,600 | 6,088,786 | 153.8 | |
| Heavy Vehicle Maintenance | 35,000 | 4,279,654 | 122.3 | |
| Highway Substation - Accord | 2,324 | 314,517 | 135.3 | |
| Highway Substation - Boiceville | 13,690 | 529,966 | 38.7 | |
| Highway Substation - New Paltz | 13,697 | 285,828 | 20.9 | |
| Highway Substation - Plattekill | 2,265 | 299,381 | 132.2 | |
| Highway Substation - Saugerties | 3,552 | 412,890 | 116.2 | |
| Highway Substation - Shandaken | 5,364 | 402,738 | 75.1 | |
| Highway Substation - Shawangunk | 4,433 | 272,356 | 61.4 | |
| Highway Substation - Sundown | 4,984 | 374,760 | 75.2 | |
| Highway Substation - Ulster Heights | 3,545 | 429,110 | 121 | |
| Hutton Building | 3,386 | 11,361 | 3.4 | |
| Information Services | 13,174 | 4,260,406 | 323.4 | |
| Old Jail Storage Garage | 5,000 | 974,143 | 194.8 | |
| Old Ulster County Jail | 53,391 | 2,048,314 | 38.4 | |
| Persen House | 6,405 | 12,145 | 1.9 | |
| Probation Campus | 20,724 | 3,224,437 | 155.6 | |
| Public Safety Training Center | 6,804 | 263,853 | 38.8 | |
| Public Works Building | 10,740 | 2,427,464 | 226 | |
| Sheriff's Substation - Warwarsing | 1,534 | 188,353 | 122.8 | |
| Sojourner Truth Ulster Landing Park | 3,198 | 124,185 | 38.8 | |
| Trudy Resnick Farber | 20,732 | 3,548,561 | 171.2 | |
| UCAT | 23,413 | 4,150,194 | 177.3 | |
| Ulster County Courthouse | 43,650 | 8,540,580 | 195.7 | |
| Ulster County Law Enforcement Center | 277,000 | 56,484,003 | 203.9 | |
| Ulster County Office Building | 62,396 | 10,210,091 | 163.6 | |
| Ulster County Office Complex | 117,977 | 17,914,447 | 151.8 | |
| Ulster County Pool | 7,126 | 1,050,702 | 147.4 | |
| Ulster County Records Center | 22,550 | 5,212,066 | 231.1 | |
| Van Dale Garage - Fabrication Shop | 15,146 | 1,001,827 | 66.1 | |
| Veterans Transitional Housing Facility | 6,656 | 406,882 | 61.1 | |
| Total | 870,360 | 139,606,525 | 130.5 average | |

Table 5: 2020 Energy Consumption and Performance Ulster County Buildings

Chart 2 compares the energy use intensity in 2020 to that from the County's greenhouse gas inventory baseline year of 2012. Closed properties and properties that do not have 2012 data available were excluded. The use of the weather normalized EUI

metric allows for building energy performance comparisons across years with varying weather conditions.

Chart 2: Weather Normalized Source EUI for Ulster County Properties, 2012 and 2020



*Note: Due to anomalies in electricity meter reading in 2020, weather normalized metrics could not be calculated for many Ulster County properties. In these cases, non-weather normalized values have been substituted. See Appendix D for detail on which properties do not have weather normalized metrics available for 2020.

3. Greenhouse Gas Emissions

Greenhouse gas emission estimates were calculated using the following conversion factors in table 6. These factors were applied to the site energy consumption values to calculate annual emissions.

| Fuel Type | Conversion Factor (kg CO2e/mmBtu) |
|----------------------------------|--------------------------------------|
| Diesel Fuel | 74.21 |
| Electricity (eGRID Region: NYUP) | 39.34 |
| Natural Gas | 53.11 |
| Heating Oil (No. 2) | 74.21 |
| Propane | 64.25 |

Table 6: GHG Emissions Conversion Factors³

Ulster County offsets 100% of its Scope 1 and 2 emissions through the purchase of Climate Action Reserve carbon credits and Green-e certified renewable energy credits (RECs). To measure progress toward GHG reduction goals and to quantify annual offset credit purchase requirements, this report assumes the absence of emissions offsets. However, it does include reductions achieved through locally generated power purchases that are also offset with the purchase of RECs.

In 2020, the operation of Ulster County buildings generated 3,545.6 metric tons of CO2e.

This number differs from the emissions total from the Buildings & Other Facilities sector in the Ulster County Greenhouse Gas inventory due to: 1) the exclusion of "Other Facilities" from this report which do not have a gross floor area greater than 1,000 square feet 2) differences in emissions factors between the EPA national standard and Ulster County's methodology.

³ Retrieved from: <u>https://portfoliomanager.energystar.gov/pdf/reference/Emissions.pdf</u>

Chart 3 shows the emissions contribution of each energy type used by Ulster County in its buildings.

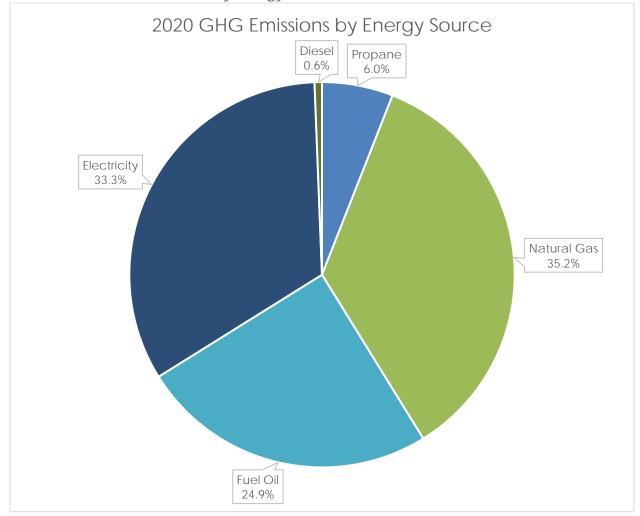




Chart 4 shows the total mass of GHG emissions produced by each building in 2020.

Chart 4: 2020 GHG Emissions by Building

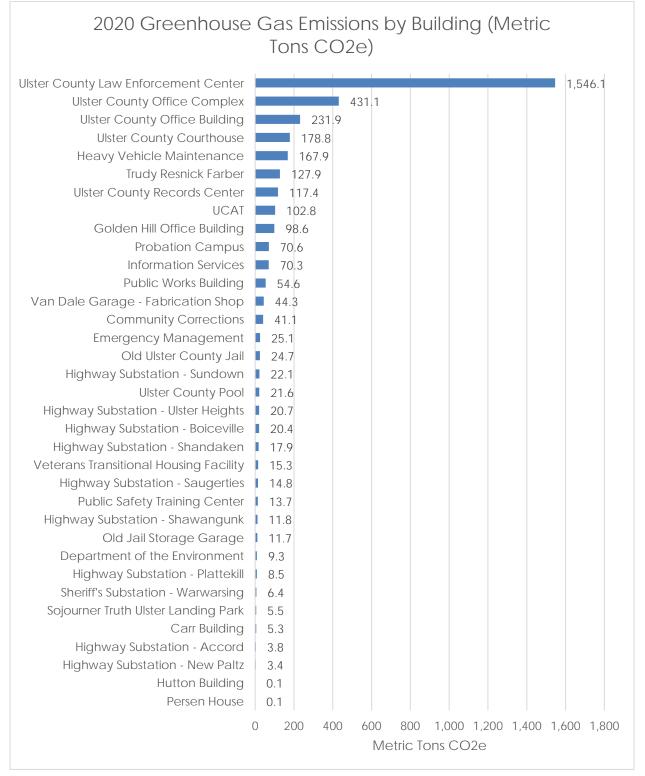
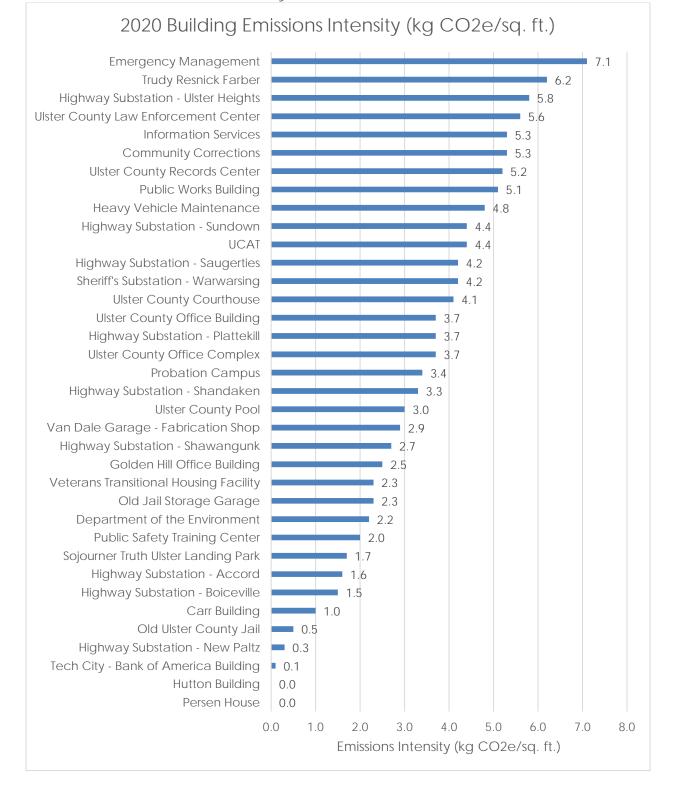


Chart 5 shows the emissions intensity for Ulster County buildings in 2020.

Chart 5: 2020 GHG Emissions Intensity



Appendices

Appendix A: Energy Performance Metrics

Energy Use Intensity: Energy Use Intensity (EUI) is the primary energy performance metric used by the EPA's ENERGY STAR program. EUI is the energy use per square foot at a property (kBtu/square foot) and is used to compare buildings of different sizes.

GHG Emissions Intensity: Emissions Intensity is the mass of greenhouse gases (CO2 equivalent) emitted per square foot per year for a given property (kg CO2e/sq. ft.).

Greenhouse gas emissions intensity is a useful metric for building energy benchmarking as building performance changes with relation to this metric are directly related to achievement of our policy goal for greenhouse gas reduction. This metric captures the true climate cost of various technologies and energy sources by converting the impact to a common ratio. The emissions intensity ratio accounts for the carbon intensity of the local electricity generation mix when compared with other energy sources used in buildings (i.e. fossil fuels for direct combustion).

Site and Source Energy: The EPA ENERGY STAR® program distinguishes between **site** and **source energy**. **Site energy** is the usage as measured exclusively from the building, which is the quantity recorded in utility bills. **Source energy** accounts for the additional energy expenditures associated with production, transmission, and delivery of the fuel. The source energy metric allows the energy efficiencies of buildings to be compared without imparting a bias based on the type of fuel they consume. National average ratios are used within the EPA ENERGY STAR scoring system to prevent any individual building from being penalized or credited due to the relative efficiency of its energy provider.

| Fuel Type | Source-Site Ratio |
|-----------------------------|-------------------|
| Electricity (Grid Purchase) | 2.80 |
| Electricity (On-site Solar) | 1.00 |
| Natural Gas | 1.05 |
| Heating Oil (No. 2) | 1.01 |
| Propane | 1.01 |
| Diesel | 1.01 |

Table 7: National Average Source-Site Ratios used in Portfolio Manager:⁴

Weather Normalized Energy:⁵ Weather normalized energy is the energy a property would have used under average conditions (also referred to as climate normals). In a given year, the weather may be warmer or colder than the building's normal climate; weather normalized energy accounts for this difference. This allows for a better

⁴ Retrieved from: <u>https://portfoliomanager.energystar.gov/pdf/reference/Source%20Energy.pdf</u> ⁵ More detail available here:

https://portfoliomanager.energystar.gov/pdf/reference/Climate%20and%20Weather.pdf

comparison of building performance over time by removing the effect of annual weather variations.

National Median Source EUI:⁶ The National Median is a median reference point based on the 2012 Commercial Building Energy Consumption Survey (CBECS) published by the U.S. Energy Information Administration, without any normalization for either weather or operation. The national median is a recommended benchmark for comparison of relative energy performance: 50% of properties perform below the median, and 50% perform above the median. The exact way the median is determined depends on the property use and size.

EPA 1-100 ENERGY STAR score: Some buildings can also receive a 1 – 100 ENERGY STAR score. This percentile score, calculated by Portfolio Manager, compares a building's energy performance to similar buildings nationwide. A score of 50 represents median energy performance, while a score of 75 means the building performs better than 75 percent of all similar buildings nationwide — and may be eligible for ENERGY STAR certification.

⁶ Technical reference here:

https://portfoliomanager.energystar.gov/pdf/reference/US%20National%20Median%20Table.pdf

Appendix B: Weather Normalized Energy Usage Trends (Source EUI)

| Property | 2012 | 2020 | % Change |
|---|-------|-------|----------|
| Carr Building* | 146 | 78.1 | -47% |
| Community Corrections* | 181.4 | 199.3 | 10% |
| Department of the Environment | 89.5 | 67.9 | -24% |
| Emergency Management* | 433.6 | 465.9 | 7% |
| Golden Hill Office Building* | 165.9 | 153.8 | -7% |
| Heavy Vehicle Maintenance | 142.9 | 137.8 | -4% |
| Highway Substation - Accord | 176.2 | 151.2 | -14% |
| Highway Substation - Boiceville | 41.5 | 45.3 | 9% |
| Highway Substation - New Paltz | 35.8 | 28.2 | -21% |
| Highway Substation - Plattekill | 217.7 | 155.8 | -28% |
| Highway Substation - Saugerties | 137.3 | 132.8 | -3% |
| Highway Substation - Shandaken | 86.5 | 97.6 | 13% |
| Highway Substation - Shawangunk | 69.4 | 79.9 | 15% |
| Highway Substation - Sundown | 69.8 | 80.5 | 15% |
| Highway Substation - Ulster Heights | 161.1 | 131.1 | -19% |
| Hutton Building | 4.9 | 3.4 | -31% |
| Information Services | 575.4 | 329.5 | -43% |
| Old Jail Storage Garage* | 143.6 | 194.8 | 36% |
| Old Ulster County Jail | 37.6 | 41.3 | 10% |
| Persen House | 3 | 1.9 | -37% |
| Probation Campus | 142.9 | 162.1 | 13% |
| Public Safety Training Center* | 0 | 39.0 | N/A |
| Public Works Building* | 179.2 | 226.0 | 26% |
| Sojourner Truth Ulster Landing Park* | 55.9 | 38.8 | -31% |
| Trudy Resnick Farber* | 207.6 | 171.2 | -18% |
| UCAT* | 216.5 | 177.3 | -18% |
| Ulster County Courthouse* | 184.9 | 195.7 | 6% |
| Ulster County Law Enforcement Center | 228.6 | 201.7 | -12% |
| Ulster County Office Building | 201.4 | 169.6 | -16% |
| Ulster County Office Complex | 131 | 158.4 | 21% |
| Ulster County Pool | 93.2 | 136.7 | 47% |
| Ulster County Records Center* | 293.3 | 231.1 | -21% |
| Van Dale Garage - Fabrication Shop | 74 | 72.5 | -2% |
| Veterans Transitional Housing Facility* | 0 | 67.5 | N/A |

Source EUI Change from 2012 Baseline

*Indicates that the weather normalized source energy use metric was not available in 2020. In these cases, the non-weather normalized metric was substituted in the table. In these cases, the comparison between the baseline year and present will be less accurate.

Appendix C: GHG Emissions Trends

GHG Emissions Change from 2012 Baseline

| Property | 2012 | 2020 | % Change |
|--|--------|--------|----------|
| Carr Building | 21.8 | 5.3 | -76% |
| Community Corrections | 29.6 | 41.1 | 39% |
| Department of the Environment | 11.6 | 9.3 | -20% |
| Emergency Management | 20.3 | 25.1 | 24% |
| Golden Hill Office Building | 100.5 | 98.6 | -2% |
| Heavy Vehicle Maintenance | 183.5 | 167.9 | -9% |
| Highway Substation - Accord | 4.2 | 3.8 | -10% |
| Highway Substation - Boiceville | 18.7 | 20.4 | 9% |
| Highway Substation - New Paltz | 9 | 3.4 | -62% |
| Highway Substation - Plattekill | 17.8 | 8.5 | -52% |
| Highway Substation - Saugerties | 18.9 | 14.8 | -22% |
| Highway Substation - Shandaken | 24.9 | 17.9 | -28% |
| Highway Substation - Shawangunk | 15.2 | 11.8 | -22% |
| Highway Substation - Sundown | 22.2 | 22.1 | 0% |
| Highway Substation - Ulster Heights | 23.6 | 20.7 | -12% |
| Hutton Building | 0.2 | 0.1 | -50% |
| Information Services | 108.5 | 70.3 | -35% |
| Old Jail Storage Garage | 7.1 | 11.7 | 65% |
| Old Ulster County Jail | 19 | 24.7 | 30% |
| Persen House | 0.2 | 0.1 | -50% |
| Probation Campus | 61.8 | 70.6 | 14% |
| Public Safety Training Center | 0 | 13.7 | N/A |
| Public Works Building | 30.8 | 54.6 | 77% |
| Sheriff's Substation - Warwarsing | 0 | 6.4 | N/A |
| Sojourner Truth Ulster Landing Park | 5.9 | 5.5 | -7% |
| Trudy Resnick Farber | 149.3 | 127.9 | -14% |
| UCAT | 111.2 | 102.8 | -8% |
| Ulster County Courthouse | 138.6 | 178.8 | 29% |
| Ulster County Law Enforcement Center | 1763.8 | 1546.1 | -12% |
| Ulster County Office Building | 248.1 | 231.9 | -7% |
| Ulster County Office Complex | 266 | 431.1 | 62% |
| Ulster County Pool | 14.9 | 21.6 | 45% |
| Ulster County Records Center | 126.9 | 117.4 | -7% |
| Van Dale Garage - Fabrication Shop | 41.7 | 44.3 | 6% |
| Veterans Transitional Housing Facility | 0 | 15.3 | N/A |

Note: GHG trends shown only for buildings with continuous energy data from 2012 through present. N/A indicates that 2012 data is unavailable or incomplete.

Appendix D: Energy Use Data – Baseline and Recent Reporting Years7

Weather Normalized Source Energy Use (kBtu) – Baseline and Recent Reporting Years

| Property | 2012 | 2017 | 2018 | 2019 | 2020 |
|--|-----------------------|-----------|-----------|-----------|-----------|
| | Baseline ⁸ | | | | |
| Carr Building* | 793,948 | 921,498 | 914,306 | 991,702 | 424,857 |
| Central Auto Garage* | 622,261 | 675,781 | 783,653 | 704,050 | Closed |
| Community Corrections* | 1,397,025 | 1,115,904 | 1,395,563 | 1,618,230 | 1,534,558 |
| Department of the | 378,299 | 371,050 | 339,530 | 279,725 | 287,329 |
| Environment | | | | | |
| Emergency Management* | 1,533,710 | 1,484,481 | 1,668,463 | 1,710,099 | 1,648,031 |
| Golden Hill Office Building* | 6,569,980 | 6,376,018 | 6,829,420 | 6,358,417 | 6,088,786 |
| Heavy Vehicle | 4,895,561 | 5,462,003 | 5,270,250 | 5,207,236 | 4,821,969 |
| Maintenance | | | | | |
| Heritage Center for Tourism | 212,827 | 278,494 | 291,357 | 304,073 | Closed |
| Highway Substation - Accord | 409,385 | 449,672 | 372,005 | 370,811 | 351,467 |
| Highway Substation - Boiceville | 567,815 | 532,877 | 657,517 | 517,511 | 620,137 |
| Highway Substation - New Paltz | 583,524 | 473,323 | 465,233 | 428,929 | 386,362 |
| Highway Substation - Plattekill | 493,220 | 351,803 | 411,569 | 368,262 | 352,982 |
| Highway Substation - Saugerties | 487,501 | 549,759 | 441,985 | 539,383 | 471,559 |
| Highway Substation - Shandaken | 463,754 | 428,045 | 525,445 | 580,242 | 523,571 |
| Highway Substation - Shawangunk | 307,765 | 395,363 | 370,955 | 408,859 | 354,263 |
| Highway Substation - Sundown | 346,775 | 508,753 | 532,840 | 443,577 | 401,215 |
| Highway Substation - Ulster Heights | 618,636 | 439,270 | 536,779 | 448,239 | 464,643 |
| Hutton Building | 16,546 | 9,686 | 12,552 | 11,205 | 11,361 |
| Information Services | 7,579,899 | 6,025,395 | 5,777,320 | 4,827,372 | 4,341,361 |
| Old Jail Storage Garage* | 717,795 | 954,688 | 1,066,831 | 1,086,266 | 974,143 |
| Old Ulster County Jail | 2,008,808 | 2,079,353 | 2,623,515 | 2,851,982 | 2,205,890 |
| Persen House | 19,307 | 18,154 | 23,137 | 24,077 | 12,145 |
| Probation Campus | 2,961,486 | 2,621,810 | 2,946,927 | 3,254,380 | 3,360,052 |
| Public Safety Training Center* | - | - | - | 123,690 | 263,853 |
| Public Works Building | 1,924,894 | 1,953,036 | 2,006,439 | 2,369,864 | 2,427,464 |
| Sheriff's Substation - Warwarsing | - | 199,305 | 239,125 | 223,888 | 191,102 |

⁷ Values for Source Energy Use differ from values contained in previous reports due to an update of Source-Site ratios by the EPA in 2018.

⁸ The baseline has not been adjusted in this report to include properties that have been sold or otherwise divested prior to the start of benchmarking reporting in 2016. However, this baseline has been adjusted in the Ulster County Greenhouse Gas Inventory.

| Sojourner Truth Ulster | 178,935 | 127,592 | 125,577 | 128,016 | 124,185 |
|-------------------------------|------------|------------|------------|------------|------------|
| Landing Park* | | | | | |
| Trudy Resnick Farber* | 4,305,235 | 3,630,282 | 3,377,795 | 3,594,403 | 3,548,561 |
| UCAT* | 5,069,899 | 5,161,428 | 4,681,529 | 4,011,045 | 4,150,194 |
| Ulster County Courthouse* | 8,070,234 | 8,076,359 | 8,808,123 | 9,463,419 | 8,540,580 |
| Ulster County Law | 63,329,711 | 61,543,266 | 60,450,044 | 55,617,169 | 55,861,274 |
| Enforcement Center | | | | | |
| Ulster County Office Building | 12,566,818 | 11,884,151 | 11,868,747 | 11,546,474 | 10,583,907 |
| Ulster County Office | 15,460,040 | 16,811,625 | 16,161,575 | 19,402,116 | 18,690,383 |
| Complex | | | | | |
| Ulster County Pool | 683,227 | 808,429 | 876,315 | 825,920 | 973,877 |
| Ulster County Records | 6,613,088 | 5,591,747 | 5,718,292 | 5,503,917 | 5,212,066 |
| Center | | | | | |
| Van Dale Garage - | 1,120,657 | 1,196,837 | 1,168,375 | 1,266,744 | 1,097,443 |
| Fabrication Shop | | | | | |
| Veterans Transitional | - | 488,884 | 551,922 | 489,480 | 448,999 |
| Housing Facility | | | | | |

*Indicates that the weather normalized source energy use metric was not available in 2020. In these cases, the non-weather normalized metric was substituted in the table.