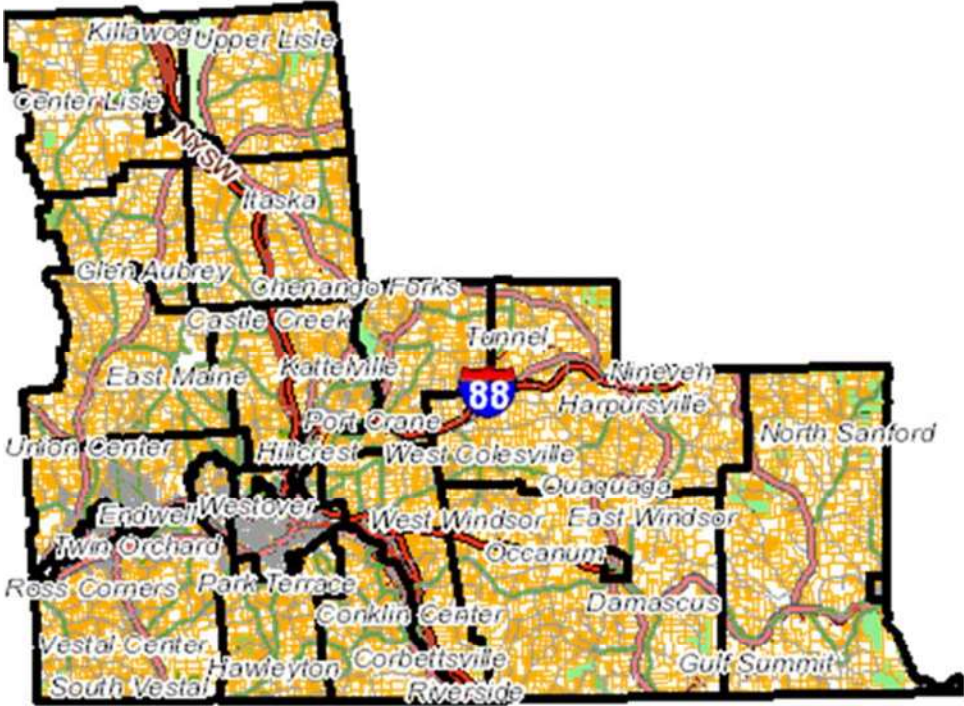


# BROOME COUNTY ENERGY BENCHMARKING ANALYSIS

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John Saraceno – Sustainability Manager  
jjsaraceno@keyscomp.com

BROOME COUNTY  
ENERGY BENCHMARKING ANALYSIS

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## BROOME COUNTY ENERGY BENCHMARKING ANALYSIS

### Energy Benchmarking:

An Energy Benchmarking analysis is a systematic process used to assess and compare the energy performance of buildings or facilities against established standards, peer buildings, or historical data. It involves collecting, analyzing, and interpreting energy consumption data to identify areas of inefficiency and opportunities for improvement. The primary goal of an energy benchmarking analysis is to provide stakeholders with actionable insights into the energy performance of their buildings, enabling informed decision-making and the implementation of strategies to reduce energy consumption, lower costs, and minimize environmental impact.

Central to energy benchmarking analysis is the establishment of baseline performance metrics, which serve as a reference point for evaluating current performance and setting future targets. This may include metrics such as energy use intensity (EUI) per square foot, energy cost per square foot, greenhouse gas emissions, or energy efficiency ratings such as ENERGY STAR scores. By comparing the energy performance of buildings to benchmarks, organizations can identify underperforming facilities, prioritize energy efficiency investments, and track progress towards their sustainability goals. Energy benchmarking analysis facilitates transparency and accountability by providing stakeholders with clear, quantifiable metrics to evaluate the effectiveness of energy management initiatives over time.

### Broome County Energy Benchmarking Analysis:

#### Benchmarking Process:

The energy benchmarking for the Broome County properties utilized the following process which involves several key steps to effectively assess and compare energy performance across different municipal buildings or facilities. Here's a general outline of the process:

#### 1. Define Objectives and Scope:

- Understand the client's goals and objectives regarding energy benchmarking.
- Determine the scope of the benchmarking exercise, including which buildings or facilities will be included, the time period for analysis, and the metrics to be measured (e.g., energy consumption, cost, carbon emissions).

#### 2. Gather Data:

- Collect relevant data on energy consumption for each building or facility within the defined scope.
- Obtain utility bills, energy usage records, and any other pertinent information necessary for benchmarking.

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### 3. **Normalize Data:**

- Normalize the energy consumption data to account for variations such as building size, occupancy, weather conditions, and operational hours.
- This step ensures fair comparisons between buildings with different characteristics.

### 4. **Select Benchmarking Tools:**

- Choose appropriate benchmarking tools or software platforms to conduct the analysis.
- There are various tools available, such as **ENERGY STAR Portfolio Manager**, which allows for benchmarking against similar buildings nationwide.

### 5. **Analyze and Compare:**

- Input the normalized data into the selected benchmarking tool and generate reports to compare energy performance metrics.
- Identify buildings or facilities that perform above or below the average, and pinpoint areas of potential improvement.

### Data Input:

The Broome County Planning Department provided a list of facilities categorized by municipal department. These departments were Office of Aging, Airport, Arena/Forum, County Clerk, Courthouse Complex, Animal Shelter, Department of Social Services, Golf Course, Government Plaza, Health Department, Highway Division, Library, Office of Emergency Services, Parks, Public Safety Facility, Public Works, Pump Stations, Solid Waste Management, Transit and the Willow Point Nursing Home. The list included facility names, addresses, dates of construction, building square footage and New York State Electric & Gas (NYSEG) utility account numbers. The Broome County GIS Portal and Parcel Mapper tool was utilized to research the minimal facility data missing from the provided list. The revised list resulted in 56 separate facilities for a total of **1,568,255** ft<sup>2</sup> being entered into the ENERGY STAR Portfolio Manager Tool (<https://portfoliomanager.ENERGYSTAR.gov/pm/login>). The Energy Benchmarking analysis was performed on the following Broome County facilities:



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## Broome County Property List

Property Name	Street Address	City/Municipality	Year Built	Floor Area (ft <sup>2</sup> )
Aging - Eastern Broome Senior Center	27 Golden Lane	Harpurville	2001	5,640
Aging - Northern Broome Senior Center	12 Strong Place	Whitney Point	2002	5,700
Aging - Western Broome Senior Center	2801 Wayne Street	Endwell	1978	13,650
Animal Shelter	110 Cutler Pond Road	Binghamton	1981	3,303
Broome County Public Safety Facility	155 Lt. VanWinkle Drive	Binghamton	1995	247,962
Court Complex	43 - 65 Hawley Street &	Binghamton	2009	168,921
Department of Social Services	36 - 42 Main Street	Binghamton	1940	54,040
DMV - Endicott	137 Washington Ave	Endicott	1980	2,250
DPW - Colesville RD	Colesville RD	Binghamton	1980	1,300
DPW - Knapp RD	Knapp RD	Nanticoke	1980	1,300
E. L. Crawford County Office Building	44-60 Hawley Street	Binghamton	1972	113,706
Enjoie Golf Club House	722 West Main Street	Endicott	1994	6,932
Forum	236 Washington Street	Binghamton	1975	24,463
Greater Binghamton Airport	2534 Airport Rd	Johnson City	1951	245,018
Health Department	225 Front Street	Binghamton	1988	16,000

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Highway - Vestal	0 Old Vestal RD	Vestal	1980	2,500
Highway Dept. Garage & Public Works	47 Thomas Street	Binghamton	1997	61,470
Intermodal Transportation Center - Greyhound	81-85 Chenango Street	Binghamton	2010	19,000
Jeffery P. Kraham Public Library	185 Court Street	Binghamton	2000	66,240
OES Special Ops Training & Storage Facility	3006 Wayne Street	Endicott	1991	16,212
OES Tower - Deposit	445 Shaver Hill RD	Deposit	2016	450
OES Tower - Ely Park	67 Ridge Street	Binghamton	1956	225
OES Tower - Ingraham	125 Ingraham Hill RD	Binghamton	2016	450
OES Tower - Lisle	104 Costello RD	Lisle	2016	240
OES Tower - Maine	46 Town RD	Maine	2016	240
OES Tower - Nabinger	321 Nabinger Hill RD	Ninevah	2016	240
OES Tower - Port Crane	116 Hawkins Hill RD	Port Crane	2016	240
OES Tower - Sanford	678 Marsh Pond RD	Sanford	2016	450
OES Tower - Union	375 Twist Run RD	Endicott	2016	450
OES Tower - Whitney Point	166 Pease Hill RD	Whitney Point	2016	240
OES Tower - Windsor	541 Cresson Hill RD	Windsor	2016	450
Park - Bagsai	897 Front Street	Binghamton	1992	1,630

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Park - Cole	1674 Colesville Road	Harpursville	1997	19,976
Park - Dorchester	5469 NY Route 26	Whitney Point	1983	11,326
Park - Greenwood	153 Greenwood Road	Lisle	1984	11,607
Park - Grippen	607 South Grippen Ave	Endicott	1981	37,362
Park - Hawkins	224 Scouten Hill Road	Windsor	1981	880
Park - Otsiningo	1 Otsiningo Park	Binghamton	1975	6,722
Park - Storage Facility	1 N Floral Avenue	Binghamton	1985	32,850
Public Transportation Facility - Bus Garage	413 Old Mill Road	Vestal	1983	49,434
Pump Station - 10 Knapp Road	10 Knapp Road	Johnson City	2010	-
Pump Station - 1155 Dunham Hill Road	1155 Dunham Hill Road	Binghamton	2010	-
Pump Station - 199 Commercial Drive	199 Commercial Drive	Johnson City	2010	-
Pump Station - 2139 Airport Road	2139 Airport Road	Binghamton	2010	-
Pump Station - 316 Twining Road	316 Twining Road	Johnson City	2010	-
Pump Station - 65 Commercial Drive	65 Commercial Drive	Johnson City	2010	-
Pump Station - Flint Road	383 Flint Road	Binghamton	2010	-
Sheriff Vehicle Storage Building	90 Ely Street	Binghamton	1960	6,993
Soil & Water Conservation District	1163 Upper Front Street	Binghamton	1981	6,725

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Solar - Airport RD	Airport RD	Johnson City	2020	-
Solar - Corporate Park N	375 Corporate DR North	Kirkwood	2020	-
Solar - Corporate Park South	375 Corporate DR South	Kirkwood	2020	-
SWM - Landfill	286 Knapp RD	Binghamton	2013	24,069
Veterans Memorial Arena	1 Stuart Street	Binghamton	1971	120,900
Willow Point Nursing Home	3700 Old Vestal Road	Vestal	1968	155,849
Windsor Highway Salt Storage Facility	494 Old Route 17	Windsor	2010	2,650
<b>Total:</b>	<b>56 Facilities</b>			<b>1,568,255</b>

To perform an Energy Benchmarking analysis a minimum of one year worth of utility data is required for each facility, however two years' worth of data was utilized in the Broome County analysis for more precise results. As in most Benchmarking scenarios the recordkeeping of each facility's utility billing data, electric and natural gas consumption information was incomplete for the two-year period. Utilizing the Broome County Planning Department's facility list that provided utility account numbers, two Utility Release Authorization Letters were sent to NYSEG requesting the full two years' worth of utility data for each facility. After NYSEG's acceptance of the Utility Release Authorization Letters, they provided the monthly electric and natural gas consumption data for the requested two-year period. NYSEG provided Microsoft Excel files for the **153** utility meters currently in use by the Broome County facilities. The NYSEG utility data was then analyzed and entered into the ENERGY STAR Portfolio Manager Tool for each separate facility. It is important that accurate information is utilized while performing energy benchmarking, as each facility's electric usage, natural gas usage and facility square footage is used throughout numerous calculations within the ENERGY STAR Portfolio Manager Tool. For the year 2023 Broome County consumed **11,180,162** kWh of electric and **789,691.3** therms of natural gas. The complete utility consumption data for the year 2023 is shown below:

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Property Name	Number of Utility Meters	2023 Electric Use (kWh)	2023 Natural Gas Use (therms)
Aging - Eastern Broome Senior Center	1	24,432	-
Aging - Northern Broome Senior Center	1	49,675	-
Aging - Western Broome Senior Center	2	63,357	5,165.8
Animal Shelter	2	64,667	6,376.8
Broome County Public Safety Facility	2	1,398,981	185,763.5
Court Complex	4	1,024,348	166,308.1
Department of Social Services	5	714,286	15,130.0
DMV - Endicott	2	30,602	1,012.2
DPW - Colesville RD	2	2,534	-
DPW - Knapp RD	1	1,626	-
E. L. Crawford County Office Building	4	1,331,019	23,271.1
Enjoie Golf Club House	3	1,333	12,462.4
Forum	2	153,833	16,394.4
Greater Binghamton Airport	37	1,341,238	77,424.5
Health Department	3	254,979	16,668.6
Highway - Vestal	2	3,786	-
Highway Dept. Garage & Public Works	5	170,847	28,092.0
Intermodal Transportation Center - Greyhound	2	19,960	1,141.0
Jeffery P. Kraham Public Library	2	280,643	26,368.0
OES Special Ops Training & Storage Facility	2	50,819	5,652.7
OES Tower - Deposit	1	28,086	-
OES Tower - Ely Park	1	41,811	-

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OES Tower - Ingraham	1	30,219	-
OES Tower - Lisle	1	18,891	-
OES Tower - Maine	1	17,901	-
OES Tower - Nabinger	1	14,977	-
OES Tower - Port Crane	1	33,828	-
OES Tower - Sanford	1	16,825	-
OES Tower - Union	1	26,173	-
OES Tower - Whitney Point	1	25,158	-
OES Tower - Windsor	1	16,020	-
Park - Bagsai	1	1,148	-
Park - Cole	2	41,986	-
Park - Dorchester	2	31,642	-
Park - Greenwood	4	50,315	-
Park - Grippen	2	13,867	-
Park - Hawkins	1	52	-
Park - Otsiningo	4	99,105	-
Park - Storage Facility	3	51,146	12,640.4
Public Transportation Facility - Bus Garage	2	286,724	26,676.7
Pump Station - 10 Knapp Road	1	-	297.5
Pump Station - 1155 Dunham Hill Road	1	-	-
Pump Station - 199 Commercial Drive	2	4,317	72.7
Pump Station - 2139 Airport Road	1	5,005	-
Pump Station - 316 Twining Road	2	17,051	191.9
Pump Station - 65 Commercial Drive	2	8,385	128.4
Pump Station - Flint Road	2	28,419	19.8
Sheriff Vehicle Storage Building	1	3,835	-
Soil & Water Conservation District	2	13,714	1,136.1
Solar - Airport RD	1	427,931	-

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Solar - Corporate Park N	1	19,645	-
Solar - Corporate Park South	1	124,128	-
SWM - Landfill	14	270,284	-
Veterans Memorial Arena	2	897,396	71,778.7
Willow Point Nursing Home	3	1,522,721	89,518.0
Windsor Highway Salt Storage Facility	1	8,494	-
<b>Total:</b>	<b>153</b>	<b>11,180,162</b>	<b>789,691.3</b>

**Energy Benchmarking Results:**

The ENERGY STAR Portfolio Manager Tool compares the results of each facility with the national averages of similar building types utilizing the measurement of Energy Use Intensity (EUI). EUI is a critical metric used to evaluate the energy efficiency of a building or facility and is a fundamental tool in the energy benchmarking process. EUI quantifies the amount of energy consumed per unit of floor area over a specified period of time. It's typically expressed in terms of energy consumption per square foot or square meter per year.

The formula to calculate EUI is:

$$EUI = \frac{\text{Total energy consumed (kWh or BTU)}}{\text{Total floor area (sq ft or sq m)}} \times \frac{1}{\text{Time period (year)}}$$

The results are typically expressed in the units **kBtu/ft<sup>2</sup>**.

EUI provides a standardized metric for comparing energy performance across buildings, guiding decision-making, and tracking progress towards energy efficiency goals. The main benefits of using the EUI calculations in energy benchmarking are the Standardization of Comparison, Identification of Performance Trends, Setting of Performance Goals, Prioritization of Energy Efficiency Measures, and the Tracking of Performance Improvements. As described below:

**Standardization of Comparison:** EUI allows for the standardization of energy consumption data across buildings of different sizes and uses. By normalizing energy consumption per unit of floor area, EUI enables fair comparisons between buildings with varying sizes and occupancy levels.

**Identification of Performance Trends:** Energy benchmarking involves collecting energy consumption data from a portfolio of buildings and calculating their respective EUIs. By analyzing



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these EUI values over time, trends in energy performance can be identified. Increasing EUI values may indicate declining energy efficiency, while decreasing EUI values suggest improvements in energy management practices.

**Setting Performance Goals:** Benchmarking using EUI helps set realistic energy performance goals for buildings. By comparing a building's EUI against industry benchmarks or similar buildings in the portfolio, energy managers can establish targets for reducing energy consumption and improving efficiency.

**Prioritization of Energy Efficiency Measures:** Buildings with high EUI values relative to their peers indicate potential areas for energy efficiency improvements. Energy benchmarking helps prioritize investments in energy-saving measures by identifying buildings with the greatest opportunities for savings. High-EUI buildings may require more intensive retrofits or operational changes to bring their energy consumption in line with benchmarks.

**Tracking Performance Improvement:** EUI serves as a quantitative measure to track the effectiveness of energy efficiency initiatives and operational changes over time. By regularly monitoring EUI values, energy managers can assess the impact of implemented measures and adjust strategies as needed to achieve energy reduction goals.

When utilizing the ENERGY STAR Portfolio Manager Tool, it calculates both Site EUI and Source EUI. While Site EUI focuses solely on energy used within the boundaries of the facility, Source EUI provides a more holistic view by including upstream energy losses. Both metrics are crucial for assessing energy efficiency and informing sustainability strategies, however, we opted to utilize Source EUI as it offers a broader perspective for comprehensive analysis and decision-making.

**Site EUI:** Site EUI considers only the energy consumed within the boundaries of the site or building. It accounts for all the energy used on-site to support operations, including electricity, natural gas, fuel oil, etc. It's a reflection of how efficiently a facility uses energy to meet its needs.

**Source EUI:** Source EUI expands the scope beyond the site to account for the full energy consumption associated with the facility. It includes not only the energy consumed on-site but also the energy used upstream to generate electricity or deliver other fuels to the site. This means it factors in losses that occur during generation, transmission, and distribution. Source EUI provides a more comprehensive view of the environmental impact of a facility's energy consumption.



The ENERGY STAR Portfolio Manager tool provided great results for the Broome County facilities. To earn the ENERGY STAR certification, a facility must earn an ENERGY STAR score of **75\*** or higher on a 1 – 100 scale, indicating that it performs better than at least 75 percent of similar facilities nationwide. This 1 – 100 ENERGY STAR score is based on the actual, measured energy use of the facility and is calculated within the ENERGY STAR Portfolio Manager tool. The score accounts for differences in operating conditions, regional weather data, and other important considerations. ENERGY STAR certification is available for various types of buildings and facilities across different sectors. Some of the common building types

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eligible for ENERGY STAR certification include office buildings, retail stores, hotels, restaurants, industrial facilities, warehouses, distribution centers, K-12 schools and higher education institutions, hospitals, medical offices and clinics, data centers, supermarkets, places of worship and multifamily residential buildings.

\* The EPA is proposing to raise the required ENERGY STAR certification score from the current score of 75 to a new score of 80 in mid-2024.

Based on the ENERGY STAR program requirements and the types of facilities that can be certified, five of the Broome County facilities would be eligible for ENERGY STAR Certification. The eligible facilities for the ENERGY STAR Certification are the Willow Point Nursing Home, E.L. Crawford County Office, Department of Social Services, County Clerk – DMV and the Health Department. These Broome County facilities are eligible based on their building type categorization as a “Senior Living Community” and “Offices” in the ENERGY STAR Portfolio Manager Tool. Due to the efficiency of the Willow Point Nursing Home, the facility performs better than 89% of similar facilities nationwide. The combination of the Energy Benchmarking results, facility type, and ENERGY STAR score greater than 75, currently makes the Willow Point Nursing Home eligible and able to earn the ENERGY STAR Certification. The E.L. Crawford County Office scores better than 70% of comparable facilities nationwide. The County would need to increase the score to a minimum of 75 to earn the ENERGY STAR Certification. The three remaining facilities eligible for ENERGY STAR Certification based upon facility category would need to significantly raise their energy efficiency and ENERGY STAR scores to be able to earn the Certification, as their performance is below that of comparable facilities nationwide. The Broome County facilities eligible for ENERGY STAR Certification are:

				
Property Name	National Median Source EUI (kBtu/ft <sup>2</sup> )	Source EUI (kBtu/ft <sup>2</sup> )	Compared to median (%)	 <b>ENERGY STAR SCORE</b>
<b>Willow Point Nursing Home</b>	<b>221.1</b>	<b>153.7</b>	<b>-30.5</b>	<b>89</b>
<b>E. L. Crawford County Office Building</b>	<b>178.7</b>	<b>133.3</b>	<b>-25.4</b>	<b>70</b>
<b>Department of Social Services</b>	<b>128.4</b>	<b>155.7</b>	<b>21.3</b>	<b>35</b>
<b>DMV - Endicott</b>	<b>135.7</b>	<b>177.2</b>	<b>30.5</b>	<b>29</b>
<b>Health Department</b>	<b>118.7</b>	<b>261.6</b>	<b>120.5</b>	<b>4</b>

The Energy Benchmarking analysis resulted in twenty-three Broome County facilities that performed better than similar facilities nationwide, however based on their facility type characterization were not eligible for the ENERGY STAR Certification. These facilities performed 15% to 99% better than similar facilities nationwide. Although these facilities are not eligible for certification, it is a great achievement for Broome County. See facility list below:

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Property Name	National Median Source EUI (kBtu/ft <sup>2</sup> )	Source EUI (kBtu/ft <sup>2</sup> )	Compared to median (%)
Park - Hawkins	112	0.6	-99.5
Park - Grippen	112	3.5	-96.8
Sheriff Vehicle Storage Building	89.3	5.2	-94.1
Park - Bagsai	112	6.7	-94
DPW - Knapp RD	89.3	11.9	-86.6
Intermodal Transportation Center - Greyhound	112	16.3	-85.4
Highway - Vestal	89.3	14.5	-83.8
Park - Cole	112	20.1	-82.1
DPW - Colesville RD	89.3	18.6	-79.1
Park - Dorchester	112	26.7	-76.2
Windsor Highway Salt Storage Facility	89.3	30.6	-65.7
Park - Greenwood	112	41.4	-63
Aging - Eastern Broome Senior Center	109.6	41.4	-62.2
Soil & Water Conservation District - DPW	89.3	37.1	-58.4
Jeffery P. Kraham Public Library	143.6	82.3	-42.7
Park - Storage Facility	89.3	55.3	-38.1
OES Special Ops Training & Storage Facility	89.3	66.6	-25.4
Aging - Northern Broome Senior Center	109.6	83.3	-24
Court Complex	211.4	161.3	-23.7
Greater Binghamton Airport	112	85.5	-23.7
Aging - Western Broome Senior Center	109.6	84.1	-23.3
Highway Dept. Garage & Public Works	89.3	74.5	-16.5
Broome County Public Safety Facility	156.4	132.6	-15.2

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The Energy Benchmarking analysis resulted in eighteen Broome County facilities whose performance is below that of similar facilities nationwide. These facilities were also not eligible for the ENERGY STAR Certification, due to facility type requirements. These facilities performed .1% to 1888% below that of similar facilities nationwide. See facility list below:

			
Property Name	National Median Source EUI (kBtu/ft <sup>2</sup> )	Source EUI (kBtu/ft <sup>2</sup> )	Compared to median (%)
Public Transportation Facility - Bus Garage	112	112.1	0.1
Forum	112	130.4	16.5
Veterans Memorial Arena	112	133.3	19
SWM - Landfill	89.3	107.3	20.2
Park - Otsiningo	112	140.9	25.8
Enjoie Golf Club House	109.6	190.6	73.9
BC Animal Shelter	145.8	389.8	167.4
Property Name	National Median Source EUI (kBtu/ft <sup>2</sup> )	Source EUI (kBtu/ft <sup>2</sup> )	Compared to median (%)
OES Tower - Windsor	89.3	340.1	281
OES Tower - Sanford	89.3	357.2	300.1
OES Tower - Union	89.3	555.7	522.4
OES Tower - Nabinger	89.3	596.2	567.8
OES Tower - Deposit	89.3	596.3	567.9
OES Tower - Ingraham	89.3	641.6	618.6
OES Tower - Maine	89.3	712.6	698.2
OES Tower - Lisle	89.3	752	742.4
OES Tower - Whitney Point	89.3	1001.5	1021.8
OES Tower - Port Crane	89.3	1346.6	1408.4
OES Tower - Ely Park	89.3	1775.3	1888.6
*Data skewed due to non specific building type options in ENERGYSTAR Portfolio Manager			

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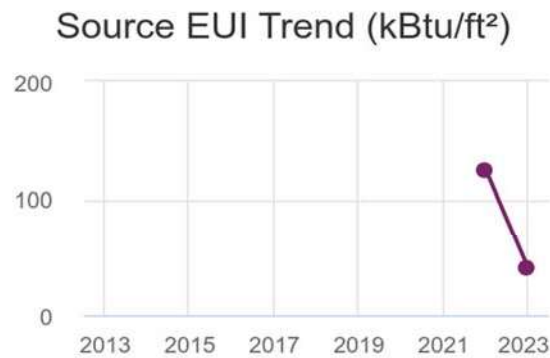
It is noted that the Office of Emergency Services Tower facility data is skewed due to non-specific/appropriate facility type options in ENERGY STAR Portfolio Manager. These facilities have a small building footprint (225 to 450 s.f.) and high electric consumption due to their required electronics. This results in high EUI's when not compared to similar facilities.

Broome County has ten properties that were entered into the ENERGY STAR Portfolio Manager Tool specifically to track utility data. These locations do not have an actual facility or building on-site, making them ineligible for ENERGY STAR Certification. Due to these properties not having an on-site facility, a square footage of zero was entered. Additionally, the calculations for their current Site and Source EUI's are not available. These included three Solar Farm properties and seven municipal pump stations. These pumpstation properties have small enclosed mechanical pumps, valves and controls. While the Solar Farm sites only have Solar PV installations. See these properties below:

			
Property Name	Current Site EUI (kBtu/ft <sup>2</sup> )	Weather Normalized Source EUI (kBtu/ft <sup>2</sup> )	Compared to median
Pump Station - 10 Knapp Road	NA	NA	NA
Pump Station - 1155 Dunham Hill Road	NA	NA	NA
Pump Station - 199 Commercial Drive	NA	NA	NA
Pump Station - 2139 Airport Road	NA	NA	NA
Pump Station - 316 Twining Road	NA	NA	NA
Pump Station - 65 Commercial Drive	NA	NA	NA
Pump Station - Flint Road	NA	NA	NA
Solar - Airport RD	NA	NA	NA
Solar - Corporate Park N	NA	NA	NA
Solar - Corporate Park South	NA	NA	NA
* These properties do not contain buildings and are not eligible for Energy Star rating. Data entered to track energy consumption.			

For the baseline year of 2022, Broome County facilities combined accounted for a Source EUI of 124.8 kBtu/ft<sup>2</sup>. The same calculation for the year 2023 totaled 40.3 kBtu/ft<sup>2</sup>. The metrics calculated by the ENERGY STAR Portfolio Manager Tool show that Broome County was able to significantly lower its electric and natural gas consumption in a one-year time span, which correlated to a 67% decrease in combined Source EUI. This EUI calculation was performed by combining all facility square footage, electricity usage, natural gas usage and delivery line losses.

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The energy benchmarking analysis conducted through the ENERGY STAR Portfolio Manager Tool has provided invaluable insights into the energy performance of Broome County’s municipal facilities. The utilization of EUI metrics and comparison of the facilities against industry benchmarks will aid in identifying improvement opportunities and allow Broome County to set realistic energy efficiency goals. This analysis will not only guide strategic decision-making but also demonstrate the County’s commitment to sustainability and responsible resource management. Moving forward, Broome County will be equipped with the necessary data to implement targeted energy-saving measures, ultimately reducing operating costs, mitigating environmental impact, and fostering a more sustainable future for their residents.

### Recommendations:

An effective energy benchmarking analysis has been completed for the Broome County Municipality. Overall, more than 50% of the Broome County facilities operate at a greater energy efficiency than the national average, with five facilities being eligible to earn the ENERGY STAR Certification. These facilities are categorized in the ENERGY STAR Portfolio Manager Tool as “Senior Living Community” and “Office’s”. These County facilities include:

- Willow Point Nursing Home
- E. L. Crawford County Office Building
- Department of Social Services
- DMV - Endicott
- Health Department

It is recommended that Broome County seek earning ENERGY STAR Certification for these eligible facilities. The Willow Point Nursing Center currently surpasses the scoring threshold for certification, with an ENERGY STAR score of 89. No improvements need to be completed for the nursing facility’s certification. The E. L. Crawford County Office Building currently has an ENERGY STAR score of 70. With minor improvements to this facility’s energy efficiency the ENERGY STAR score could be increased to a passing score of 75 or higher, allowing for the facility to earn certification. The Department of Social Services, Endicott DMV and Health Department facilities will require more thorough and involved improvements in order to earn the ENERGY STAR Certification.



## BROOME COUNTY ENERGY BENCHMARKING ANALYSIS

Secondly, it is recommended that Broome County improve the operation and energy efficiency of the facilities that scored below the national averages. Although, the Public Transportation Bus Garage, Forum, Veterans Memorial Arena, Solid Waste Management Landfill, Otsiningo Park, Enjoie Golf Club House and Animal Shelter facilities are not eligible for ENERGY STAR Certification, improving their energy efficiency and operations would greatly benefit the overall sustainability of Broome County.

The following steps should be taken to point out specific areas of improvement, and the development of actionable strategies to enhance the energy efficiency and sustainability performance for each of these facilities. This involves the interaction of department heads, facility employees and maintenance staff with knowledge of each facility's daily operation. With the most knowledge of their facility's daily operation, they will be able to quickly identify areas of in-efficiency and areas of improvement required to reduce both electric and natural gas consumption, subsequently improving EUI's and increasing their facilities ENERGY STAR rating. Broome County should follow the following steps to achieve sustainable energy efficiency improvements for each of these recommended facilities.

### 1. **Identify Opportunities for Improvement:**

- Conduct further analysis to understand the reasons behind variations in energy performance.
- Identify opportunities for energy efficiency improvements, such as upgrading equipment, implementing energy management systems, or enhancing building operations and maintenance practices.

### 2. **Set Targets and Develop Action Plans:**

- Establish energy performance targets based on benchmarking results and objectives.
- Develop actionable strategies and implementation plans to achieve the set targets, considering factors such as budget constraints, available resources, and feasibility.

### 3. **Monitor and Track Progress:**

- Implement a system for ongoing monitoring and tracking of energy consumption by creating a policy/procedure to centrally collect utility bills for entrance into the **Energy Star Portfolio Manager Tool**.
- Regularly update benchmarking data in the **ENERGY STAR Portfolio Manager Tool** and compare against baseline performance to measure progress over time.
- Adjust strategies and action plans as needed to stay on track towards meeting energy efficiency goals.



## BROOME COUNTY ENERGY BENCHMARKING ANALYSIS

### 4. **Report and Communicate Results:**

- Prepare reports summarizing benchmarking results, energy performance trends, and progress towards targets.
- Communicate findings and recommendations to stakeholders, including municipal leadership, building managers, and relevant staff members.
- Engage stakeholders in ongoing discussions and efforts to promote energy efficiency and sustainability initiatives across the municipality.

### 5. **Continuously Improve:**

- Evaluate the effectiveness of implemented measures and identify additional opportunities for improvement.
- Continuously refine the energy benchmarking process and strategies to drive ongoing energy savings and sustainability improvements across the municipality.

Following these steps will allow for the implementation of the recommendations, improve overall energy efficiency and operation of the County facilities, reduce greenhouse gas emissions, achieve sustainability goals, earn ENERGY STAR Certification and recognition for environmental stewardship.

## Conclusion:

In summary, reducing energy consumption offers a wide range of benefits, including cost savings, environmental sustainability, improved comfort and productivity, regulatory compliance, market differentiation, resilience, and community benefits. Investing in energy efficiency not only yields financial returns but also promotes social and environmental responsibility, making it a win-win proposition for building owners, occupants, and society as a whole.

This ENERGY STAR Portfolio Manager energy benchmarking analysis serves as a critical tool in the ongoing efforts to drive sustainability and energy efficiency within Broome County. By analyzing energy EUI metrics across all facilities, we have gained valuable insights into the County's energy performance, identified areas for improvement, and established a foundation for targeted action. The data presented underscores the importance of continued investment in energy-saving measures, not only to reduce operational costs and environmental impact but also to promote resilience, innovation, and quality of life within the Broome County communities. Moving forward, it is imperative that the County continues to prioritize energy efficiency initiatives, collaborate with stakeholders, and leverage innovative strategies to achieve their sustainability goals.

BROOME COUNTY  
ENERGY BENCHMARKING ANALYSIS

References:

1. Broome County GIS Web Portal:

URL: <https://gis.broomecountyny.gov/Website/GISWeb/Portal.htm>

2. Broome County Government Website:

URL: <https://www.gobroomecounty.com/>

3. Broome County Parcel Mapper Viewer:

URL: [https://gis.broomecountyny.gov/website/apps/parcel\\_mapper/viewer.html](https://gis.broomecountyny.gov/website/apps/parcel_mapper/viewer.html)

4. ENERGY STAR Buildings and Plants:

URL: <https://www.ENERGY STAR.gov/buildings?s=mega>

5. ENERGY STAR Portfolio Manager:

URL: <https://portfoliomanager.ENERGY STAR.gov/pm/login>

6. United States Environmental Protection Agency (EPA):

URL: <https://www.epa.gov/>

# ENERGY STAR

## Energy Performance

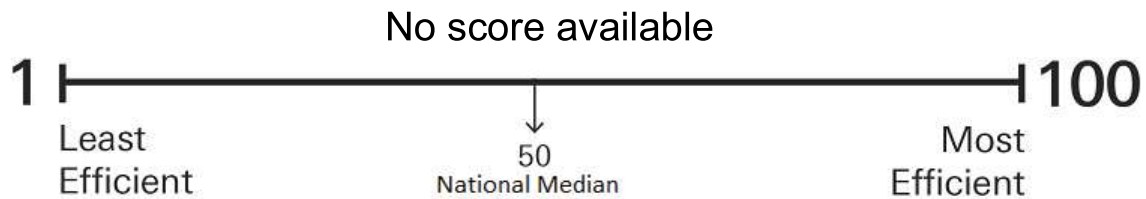
### Scorecards

# ENERGY STAR® Energy Performance Scorecard

**14.8**  
**kBtu per**  
**square foot\***

## Aging - Eastern Broome Senior Center

For Year Ending	September 30, 2023
Property Address	27 Golden Lane Harpurville, New York 13787
Primary Function	Social/Meeting Hall
Gross Floor Area (ft <sup>2</sup> )	5,640
Year built	2001
Energy Use per sq. ft.*	14.8 kBtu



### What is the ENERGY STAR Score?

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Learn more at:

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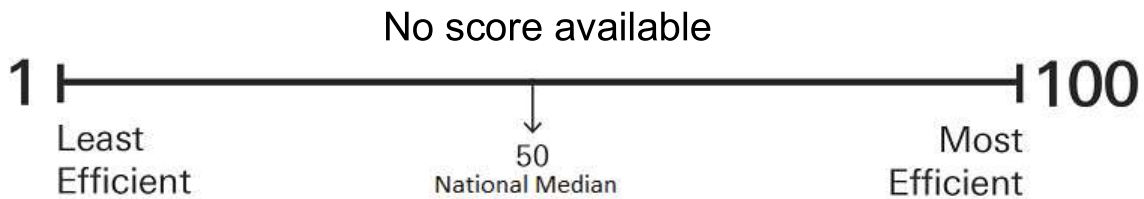
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**29.7**  
**kBtu per**  
**square foot\***

## Aging - Northern Broome Senior Center

For Year Ending	September 30, 2023
Property Address	12 Strong Place Whitney Point, New York 13862
Primary Function	Social/Meeting Hall
Gross Floor Area (ft <sup>2</sup> )	5,700
Year built	2002
Energy Use per sq. ft.*	29.7 kBtu



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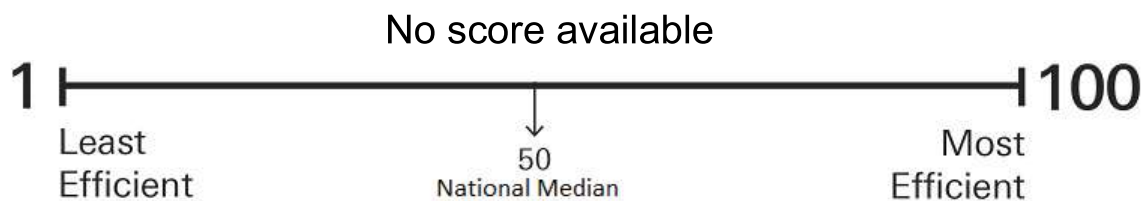
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**53.7**  
kBtu per  
square foot\*

## Aging - Western Broome Senior Center

For Year Ending	September 30, 2023
Property Address	2801 Wayne Street Endwell, New York 13760
Primary Function	Social/Meeting Hall
Gross Floor Area (ft <sup>2</sup> )	13,650
Year built	1978
Energy Use per sq. ft.*	53.7 kBtu



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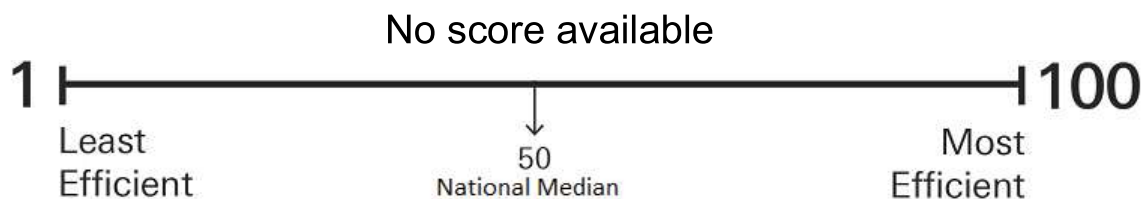
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**259.9**  
kBtu per  
square foot\*

## BC Animal Shelter

For Year Ending	August 31, 2023
Property Address	110 Cutler Pond Road Binghamton, New York 13905
Primary Function	Veterinary Office
Gross Floor Area (ft <sup>2</sup> )	3,303
Year built	1981
Energy Use per sq. ft.*	259.9 kBtu



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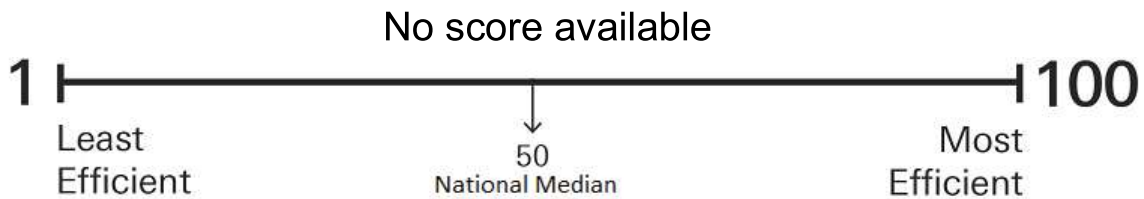


# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**94.2**  
**kBtu per**  
**square foot\***

## Broome County Public Safety Facility

For Year Ending	August 31, 2023
Property Address	155 Lt. VanWinkle Drive BINGHAMTON, New York 13905
Primary Function	Prison/Incarceration
Gross Floor Area (ft <sup>2</sup> )	247,962
Year built	1995
Energy Use per sq. ft.*	94.2 kBtu



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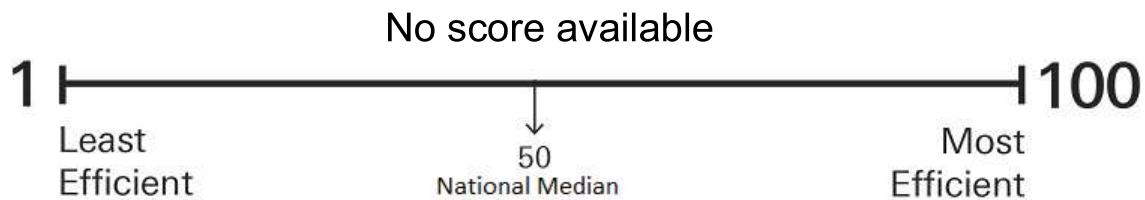
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**119.1**  
**kBtu per**  
**square foot\***

## Court Complex

For Year Ending	September 30, 2023
Property Address	43 - 65 Hawley Street & 92 Court Street BINGHAMTON, New York 13901
Primary Function	Courthouse
Gross Floor Area (ft <sup>2</sup> )	168,921
Year built	2009
Energy Use per sq. ft.*	119.1 kBtu



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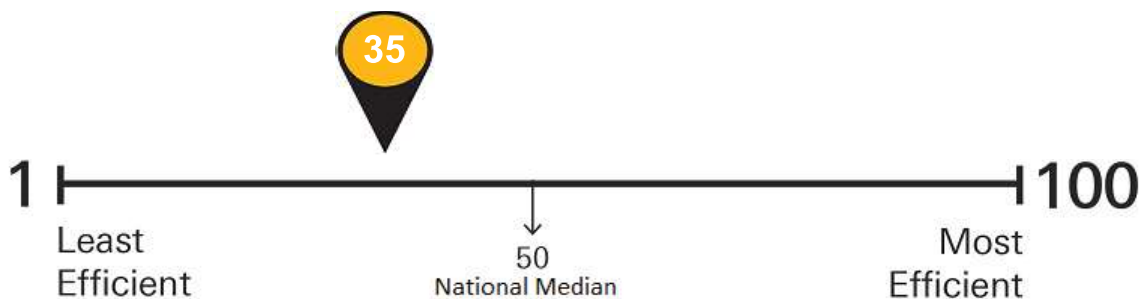
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**35**  
out of 100

## Department of Social Services

For Year Ending	September 30, 2023
Property Address	36 - 42 Main Street Binghamton, New York 13901
Primary Function	Office
Gross Floor Area (ft <sup>2</sup> )	54,040
Year built	1940
Energy Use per sq. ft.*	73.1 kBtu



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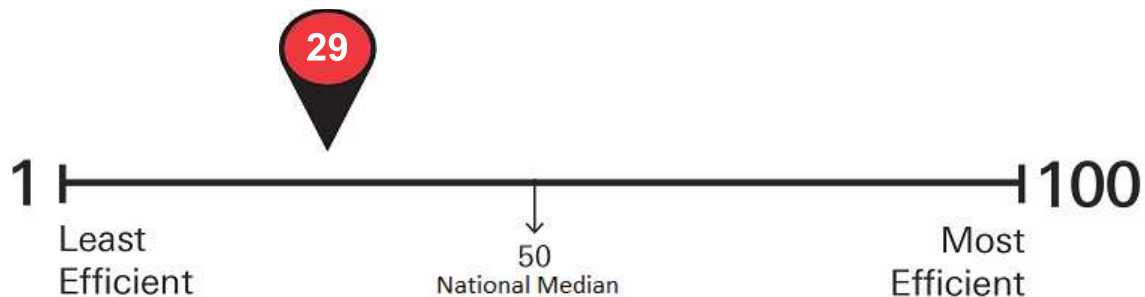
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**29**  
**out of 100**

## DMV

For Year Ending	September 30, 2023
Property Address	137 Washington Ave Endicott, New York 13760
Primary Function	Office
Gross Floor Area (ft <sup>2</sup> )	2,250
Year built	1980
Energy Use per sq. ft.*	91.4 kBtu



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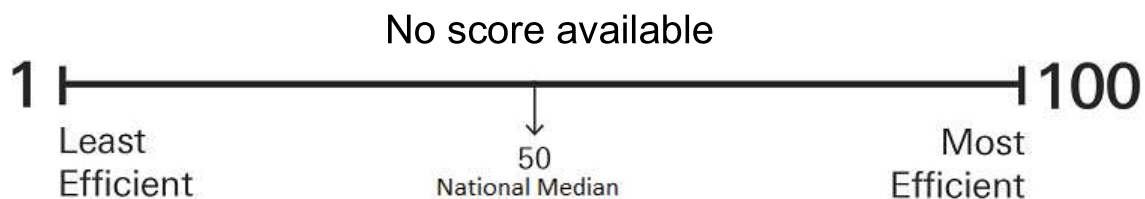
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**6.7**  
**kBtu per**  
**square foot\***

## DPW - Colesville RD

For Year Ending	September 30, 2023
Property Address	Colesville RD Binghamton, New York 13904
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	1,300
Year built	1980
Energy Use per sq. ft.*	6.7 kBtu



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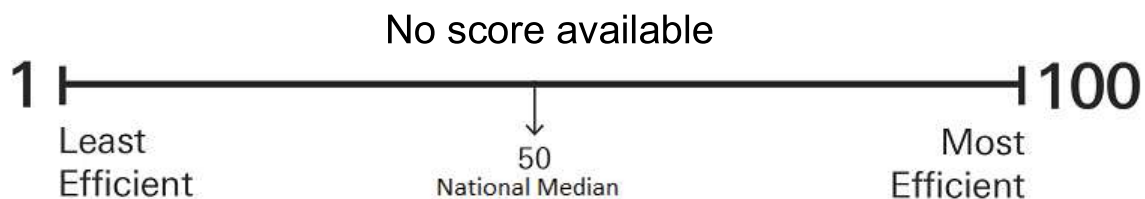
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**4.3**  
**kBtu per  
square foot\***

## DPW - Knapp RD

For Year Ending	October 31, 2023
Property Address	Knapp RD Nanticoke, New York 13905
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	1,300
Year built	1980
Energy Use per sq. ft.*	4.3 kBtu



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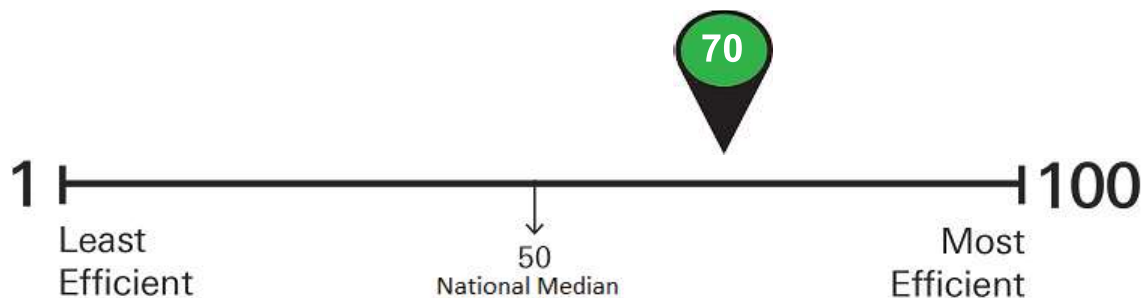
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**70**  
**out of 100**

## E. L. Crawford County Office Building

For Year Ending	August 31, 2023
Property Address	44-60 Hawley Street Binghamton, New York 13901
Primary Function	Office
Gross Floor Area (ft <sup>2</sup> )	113,706
Year built	1972
Energy Use per sq. ft.*	60.4 kBtu



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\*Site energy use

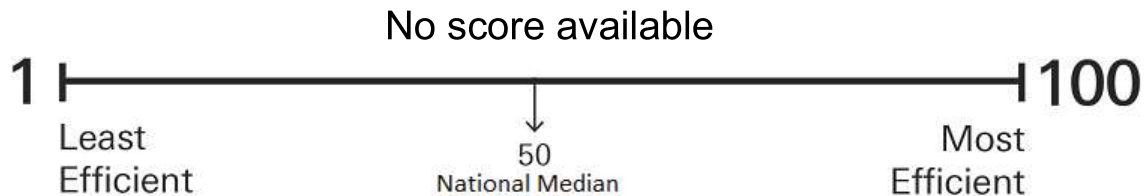


# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**180.4**  
**kBtu per**  
**square foot\***

## Enjoie Golf Club House

For Year Ending	September 30, 2023
Property Address	722 West Main Street Endicott, New York 13760
Primary Function	Social/Meeting Hall
Gross Floor Area (ft <sup>2</sup> )	6,932
Year built	1994
Energy Use per sq. ft.*	180.4 kBtu



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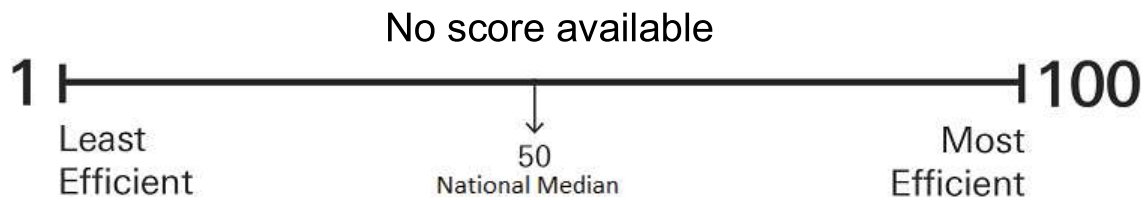
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**88.5**  
kBtu per  
square foot\*

## Forum

For Year Ending	August 31, 2023
Property Address	236 Washington Street Binghamton, New York 13901
Primary Function	Performing Arts
Gross Floor Area (ft <sup>2</sup> )	24,463
Year built	1975
Energy Use per sq. ft.*	88.5 kBtu



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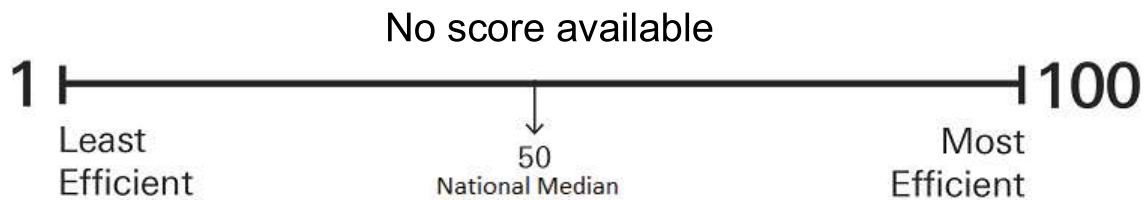
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**50.3**  
kBtu per  
square foot\*

## Greater Binghamton Airport

For Year Ending	June 30, 2023
Property Address	2534 Airport Rd Johnson City, New York 13790
Primary Function	Transportation Terminal/ Station
Gross Floor Area (ft <sup>2</sup> )	245,018
Year built	1951
Energy Use per sq. ft.*	50.3 kBtu



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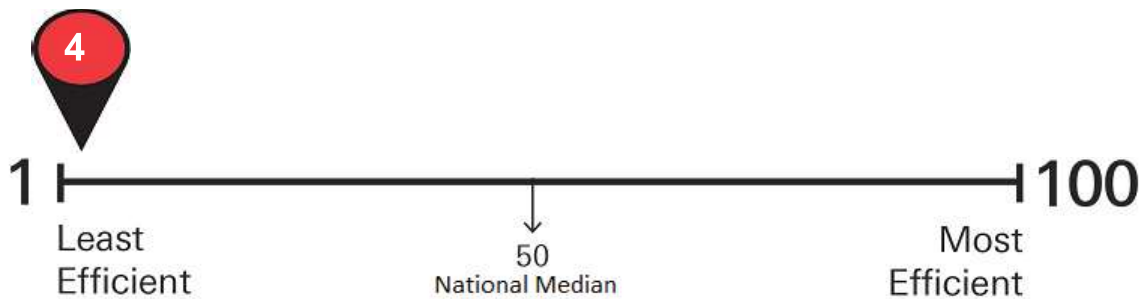
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**4**  
**out of 100**

## Health Department

For Year Ending	August 31, 2023
Property Address	225 Front Street Binghamton, New York 13905
Primary Function	Office
Gross Floor Area (ft <sup>2</sup> )	16,000
Year built	1988
Energy Use per sq. ft.*	158.6 kBtu



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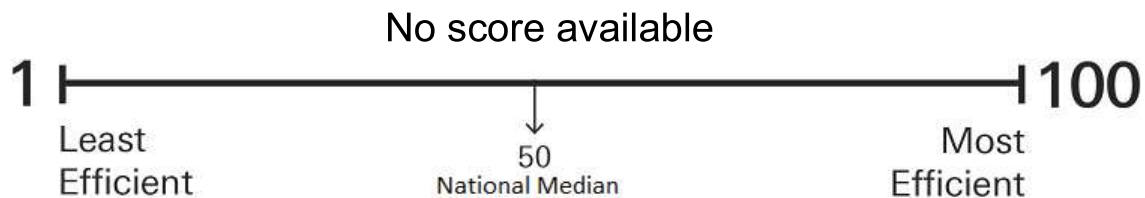
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**5.2**  
**kBtu per  
square foot\***

## Highway - Vestal

For Year Ending	September 30, 2023
Property Address	0 Old Vestal RD Vestal, New York 13850
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	2,500
Year built	1980
Energy Use per sq. ft.*	5.2 kBtu



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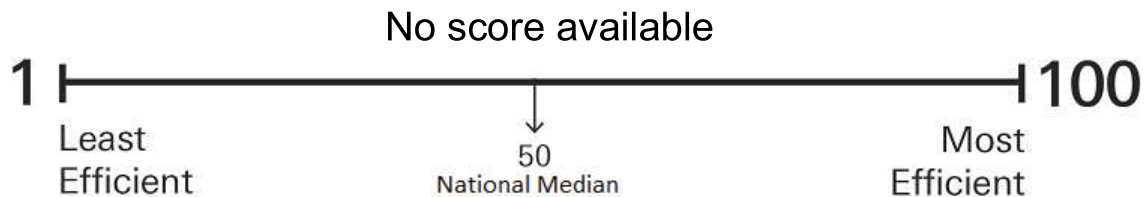
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**55.2**  
**kBtu per**  
**square foot\***

## Highway Dept. Garage & Public Works

For Year Ending	September 30, 2023
Property Address	47 Thomas Street BINGHAMTON, New York 13901
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	61,470
Year built	1997
Energy Use per sq. ft.*	55.2 kBtu



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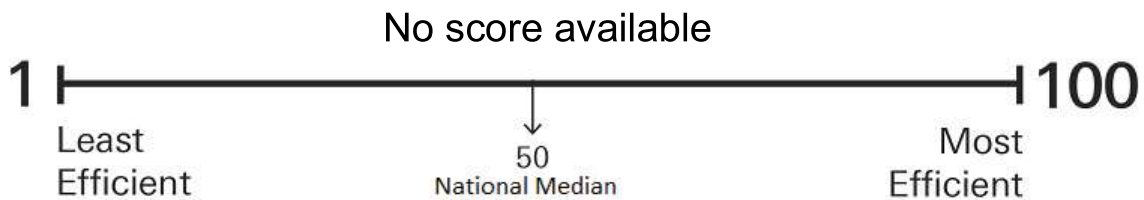
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**9.6**  
**kBtu per**  
**square foot\***

## Intermodal Transportation Center - Greyhound

For Year Ending	December 31, 2023
Property Address	81-85 Chenango Street Binghamton, New York 13901
Primary Function	Transportation Terminal/ Station
Gross Floor Area (ft <sup>2</sup> )	19,000
Year built	2010
Energy Use per sq. ft.*	9.6 kBtu



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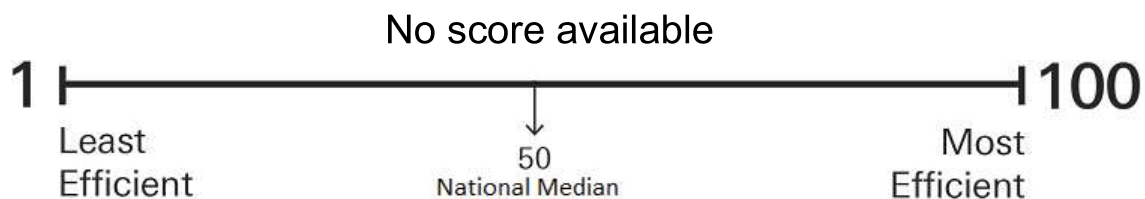
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

## Jeffery P. Kraham Public Library

**54.3**  
kBtu per  
square foot\*

For Year Ending	September 30, 2023
Property Address	185 Court Street Binghamton, New York 13901
Primary Function	Library
Gross Floor Area (ft <sup>2</sup> )	66,240
Year built	2000
Energy Use per sq. ft.*	54.3 kBtu



### What is the ENERGY STAR Score?

The ENERGY STAR score rates commercial building's energy performance relative to similar buildings nationwide. Expressed as a number on a simple 1-100 scale, the score rates performance on a percentile basis: a building with a score of 50 performs better than 50% of its peers. Higher scores mean better energy efficiency, resulting in less energy use and fewer greenhouse gas emissions. If a 1-100 score for a specific building type has not been developed, Site Energy Use Intensity (EUI) will be displayed on this scorecard.

### Learn more at:

[energystar.gov/scorecard](https://energystar.gov/scorecard)

\*Site energy use

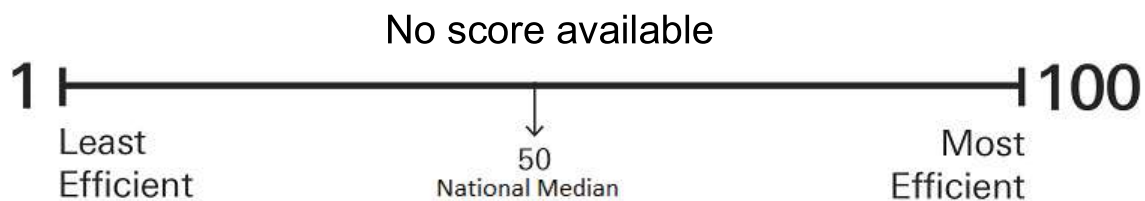


# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**45.6**  
kBtu per  
square foot\*

## OES Special Ops Training & Storage Facility

For Year Ending	September 30, 2023
Property Address	3006 Wayne Street Endicott, New York 13760
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	16,212
Year built	1991
Energy Use per sq. ft.*	45.6 kBtu



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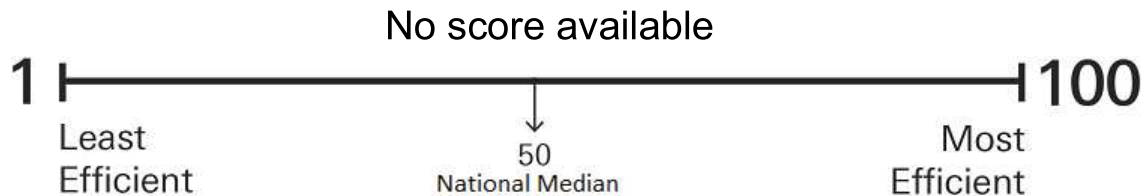
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**213.0**  
**kBtu per  
square foot\***

## OES Tower - Deposit

For Year Ending	July 31, 2023
Property Address	445 Shaver Hill RD Deposit, New York 13754
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	450
Year built	2016
Energy Use per sq. ft.*	213 kBtu



### What is the ENERGY STAR Score?

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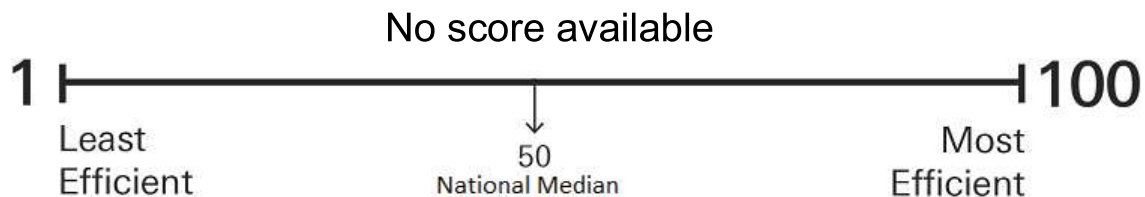
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**634.0**  
kBtu per  
square foot\*

## OES Tower - Ely Park

For Year Ending	September 30, 2023
Property Address	67 Ridge Street BINGHAMTON, New York 13901
Primary Function	Other - Utility
Gross Floor Area (ft <sup>2</sup> )	225
Year built	1956
Energy Use per sq. ft.*	634 kBtu



### What is the ENERGY STAR Score?

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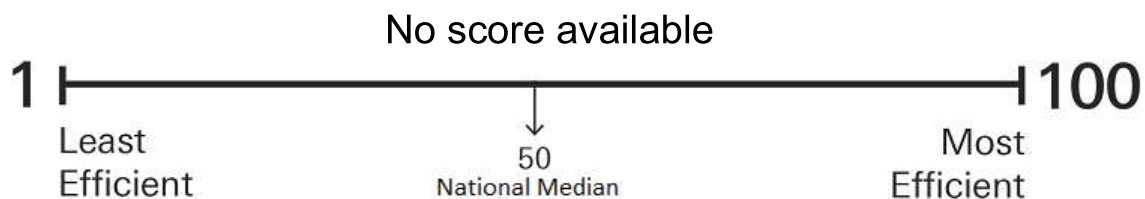
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**229.1**  
**kBtu per**  
**square foot\***

## OES Tower - Ingraham

For Year Ending	September 30, 2023
Property Address	125 Ingraham Hill RD BINGHAMTON, New York 13901
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	450
Year built	2016
Energy Use per sq. ft.*	229.1 kBtu



### What is the ENERGY STAR Score?

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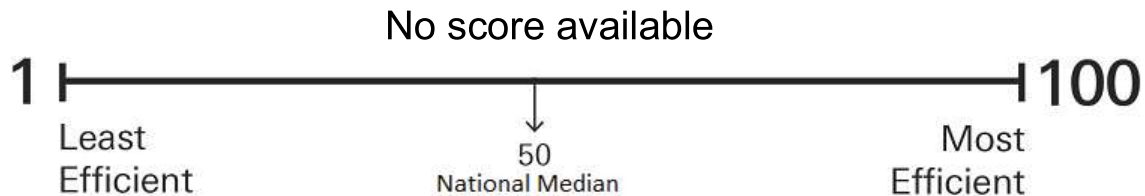
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**268.6**  
kBtu per  
square foot\*

## OES Tower - Lisle

For Year Ending	September 30, 2023
Property Address	104 Costello RD Lisle, New York 13797
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	240
Year built	2016
Energy Use per sq. ft.*	268.6 kBtu



### What is the ENERGY STAR Score?

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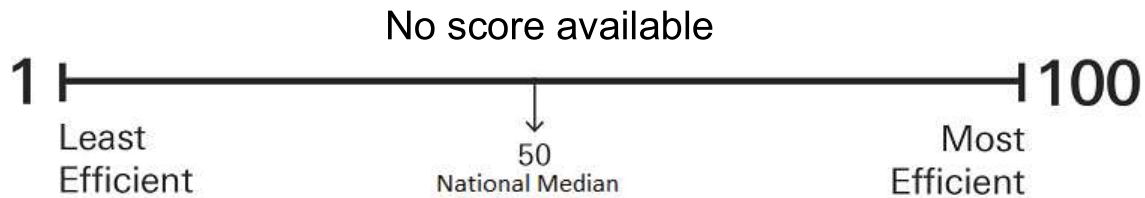
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**254.5**  
**kBtu per**  
**square foot\***

## OES Tower - Maine

For Year Ending	August 31, 2023
Property Address	46 Town RD Maine, New York 13802
Primary Function	Other - Utility
Gross Floor Area (ft <sup>2</sup> )	240
Year built	2016
Energy Use per sq. ft.*	254.5 kBtu



### What is the ENERGY STAR Score?

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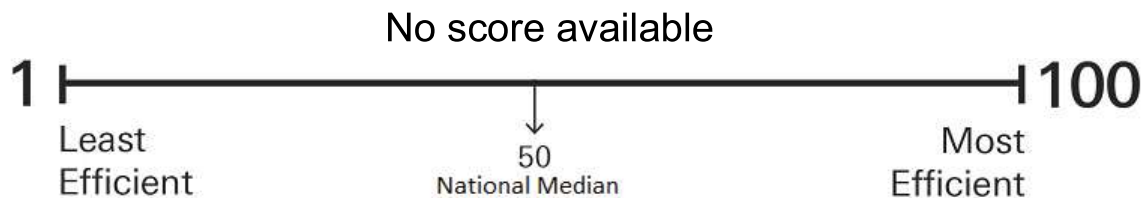
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**212.9**  
**kBtu per**  
**square foot\***

## OES Tower - Nabinger

For Year Ending	August 31, 2023
Property Address	321 Nabinger Hill RD Ninevah, New York 13813
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	240
Year built	2016
Energy Use per sq. ft.*	212.9 kBtu



### What is the ENERGY STAR Score?

The ENERGY STAR score rates commercial building's energy performance relative to similar buildings nationwide. Expressed as a number on a simple 1-100 scale, the score rates performance on a percentile basis: a building with a score of 50 performs better than 50% of its peers. Higher scores mean better energy efficiency, resulting in less energy use and fewer greenhouse gas emissions. If a 1-100 score for a specific building type has not been developed, Site Energy Use Intensity (EUI) will be displayed on this scorecard.

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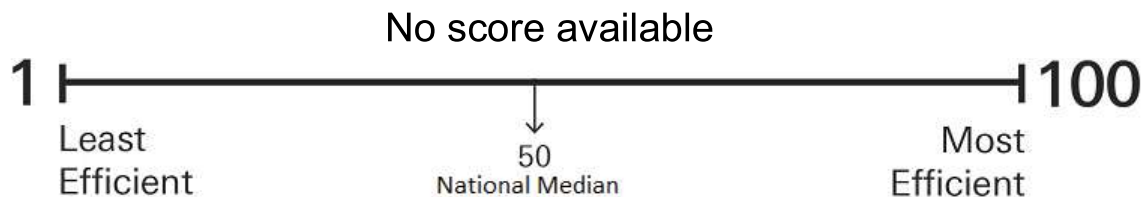
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**480.9**  
kBtu per  
square foot\*

## OES Tower - Port Crane

For Year Ending	October 31, 2023
Property Address	116 Hawkins Hill RD Port Crane, New York 13833
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	240
Year built	2016
Energy Use per sq. ft.*	480.9 kBtu



### What is the ENERGY STAR Score?

The ENERGY STAR score rates commercial building's energy performance relative to similar buildings nationwide. Expressed as a number on a simple 1-100 scale, the score rates performance on a percentile basis: a building with a score of 50 performs better than 50% of its peers. Higher scores mean better energy efficiency, resulting in less energy use and fewer greenhouse gas emissions. If a 1-100 score for a specific building type has not been developed, Site Energy Use Intensity (EUI) will be displayed on this scorecard.

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\*Site energy use

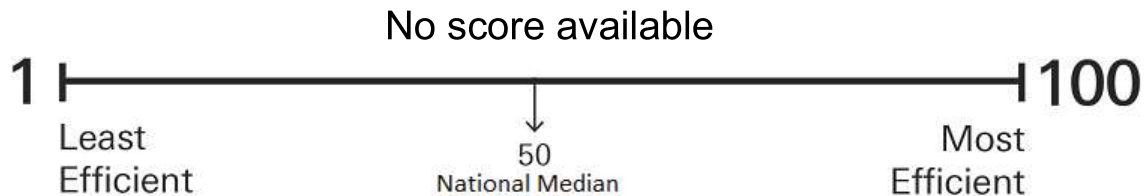


# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**127.6**  
**kBtu per**  
**square foot\***

## OES Tower - Sanford

For Year Ending	September 30, 2023
Property Address	678 Marsh Pond RD Sanford, New York 13754
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	450
Year built	2016
Energy Use per sq. ft.*	127.6 kBtu



### What is the ENERGY STAR Score?

The ENERGY STAR score rates commercial building's energy performance relative to similar buildings nationwide. Expressed as a number on a simple 1-100 scale, the score rates performance on a percentile basis: a building with a score of 50 performs better than 50% of its peers. Higher scores mean better energy efficiency, resulting in less energy use and fewer greenhouse gas emissions. If a 1-100 score for a specific building type has not been developed, Site Energy Use Intensity (EUI) will be displayed on this scorecard.

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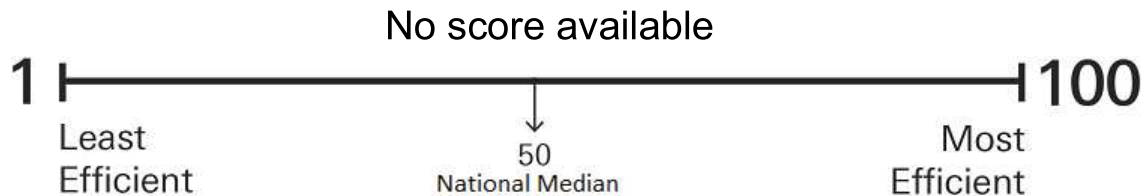
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**198.5**  
**kBtu per**  
**square foot\***

## OES Tower - Union

For Year Ending	September 30, 2023
Property Address	375 Twist Run RD Endicott, New York 13760
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	450
Year built	2016
Energy Use per sq. ft.*	198.5 kBtu



### What is the ENERGY STAR Score?

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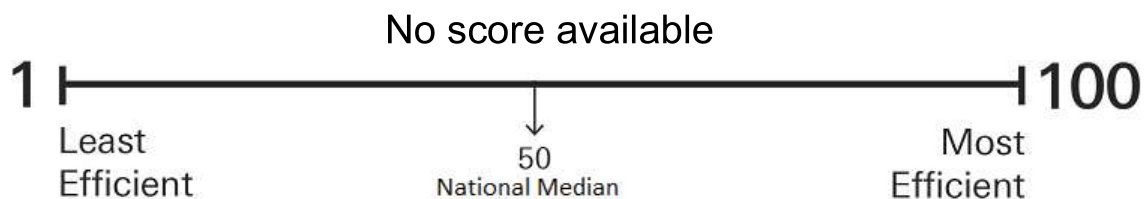
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

## OES Tower - Whitney Point

**357.7**  
kBtu per  
square foot\*

For Year Ending	August 31, 2023
Property Address	166 Pease Hill RD Whitney Point, New York 13862
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	240
Year built	2016
Energy Use per sq. ft.*	357.7 kBtu



### What is the ENERGY STAR Score?

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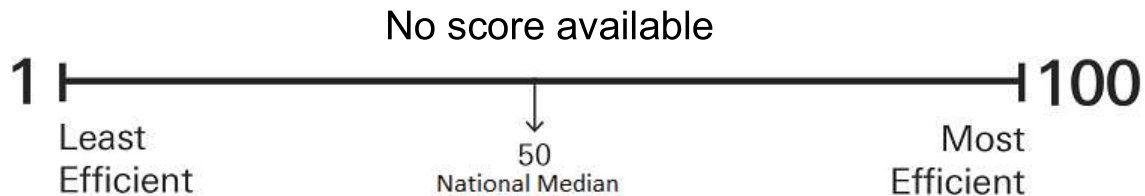
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**121.5**  
**kBtu per  
square foot\***

## OES Tower - Windsor

For Year Ending	August 31, 2023
Property Address	541 Cresson Hill RD Windsor, New York 13865
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	450
Year built	2016
Energy Use per sq. ft.*	121.5 kBtu



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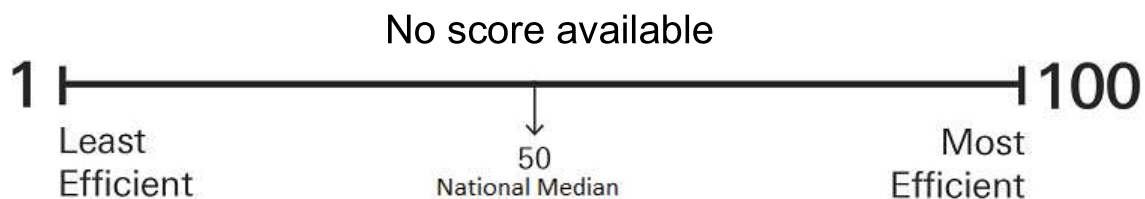
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**2.4**  
**kBtu per  
square foot\***

## Park - Bagsai

For Year Ending	November 30, 2023
Property Address	897 Front Street Binghamton, New York 13905
Primary Function	Other - Recreation
Gross Floor Area (ft <sup>2</sup> )	1,630
Year built	1992
Energy Use per sq. ft.*	2.4 kBtu



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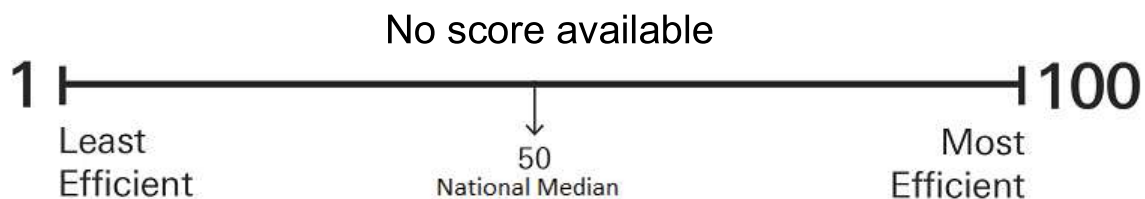
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**7.2**  
**kBtu per  
square foot\***

## Park - Cole

For Year Ending	June 30, 2023
Property Address	1674 Colesville Road Harpursville, New York 13787
Primary Function	Other - Recreation
Gross Floor Area (ft <sup>2</sup> )	19,976
Year built	1997
Energy Use per sq. ft.*	7.2 kBtu



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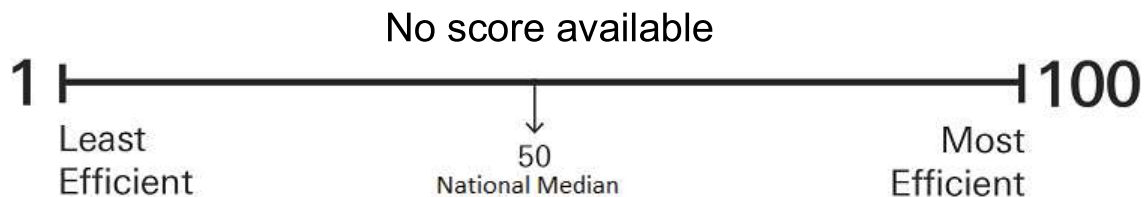
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**9.5**  
**kBtu per**  
**square foot\***

## Park - Dorchester

For Year Ending	August 31, 2023
Property Address	5469 NY Route 26 Whitney Point, New York 13862
Primary Function	Other - Recreation
Gross Floor Area (ft <sup>2</sup> )	11,326
Year built	1983
Energy Use per sq. ft.*	9.5 kBtu



### What is the ENERGY STAR Score?

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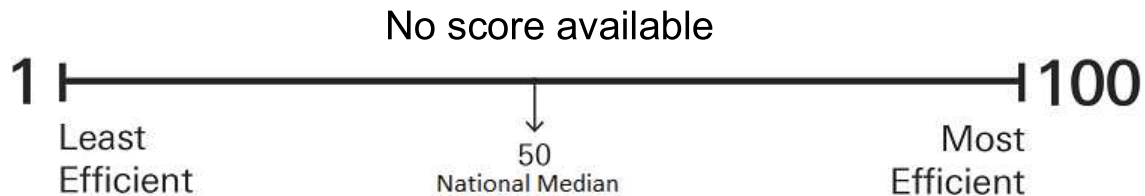
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**14.8**  
**kBtu per**  
**square foot\***

## Park - Greenwood

For Year Ending	August 31, 2023
Property Address	153 Greenwood Road Lisle, New York 13797
Primary Function	Other - Recreation
Gross Floor Area (ft <sup>2</sup> )	11,607
Year built	1984
Energy Use per sq. ft.*	14.8 kBtu



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\*Site energy use

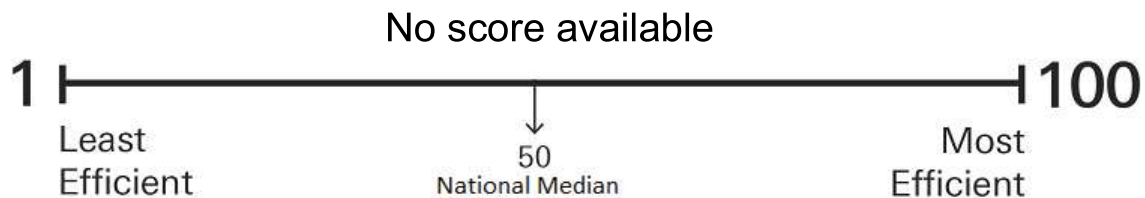


# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**1.3**  
**kBtu per  
square foot\***

## Park - Grippen

For Year Ending	September 30, 2023
Property Address	607 South Grippen Ave Endicott, New York 13760
Primary Function	Other - Recreation
Gross Floor Area (ft <sup>2</sup> )	37,362
Year built	1981
Energy Use per sq. ft.*	1.3 kBtu



### What is the ENERGY STAR Score?

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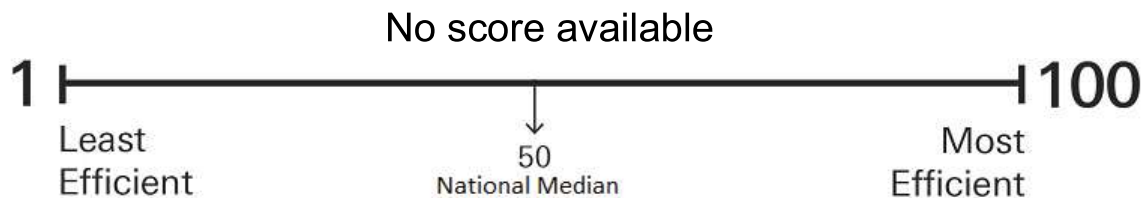
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**0.2**  
**kBtu per**  
**square foot\***

## Park - Hawkins

For Year Ending	November 30, 2023
Property Address	224 Scouten Hill Road Windsor, New York 13865
Primary Function	Other - Recreation
Gross Floor Area (ft <sup>2</sup> )	880
Year built	1981
Energy Use per sq. ft.*	0.2 kBtu



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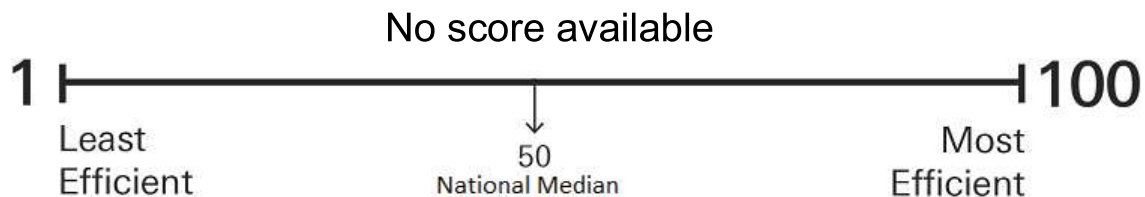
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

## Park - Otsiningo

**50.3**  
kBtu per  
square foot\*

For Year Ending	May 31, 2023
Property Address	1 Otsiningo Park Binghamton, New York 13905
Primary Function	Other - Recreation
Gross Floor Area (ft <sup>2</sup> )	6,722
Year built	1975
Energy Use per sq. ft.*	50.3 kBtu



### What is the ENERGY STAR Score?

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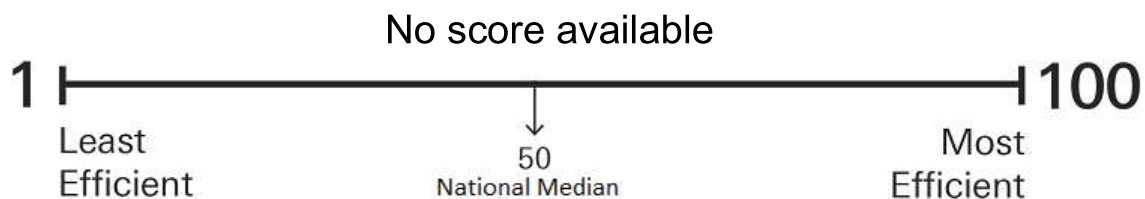
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**43.8**  
kBtu per  
square foot\*

## Park - Storage Facility

For Year Ending	September 30, 2023
Property Address	1 N Floral Avenue Binghamton, New York 13905
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	32,850
Year built	1985
Energy Use per sq. ft.*	43.8 kBtu



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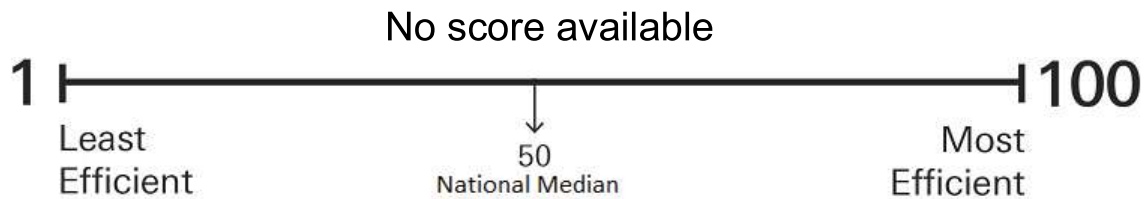
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**73.8**  
**kBtu per**  
**square foot\***

## Public Transportation Facility - Bus Garage

For Year Ending	September 30, 2023
Property Address	413 Old Mill Road Vestal, New York 13850
Primary Function	Transportation Terminal/ Station
Gross Floor Area (ft <sup>2</sup> )	49,434
Year built	1983
Energy Use per sq. ft.*	73.8 kBtu



### What is the ENERGY STAR Score?

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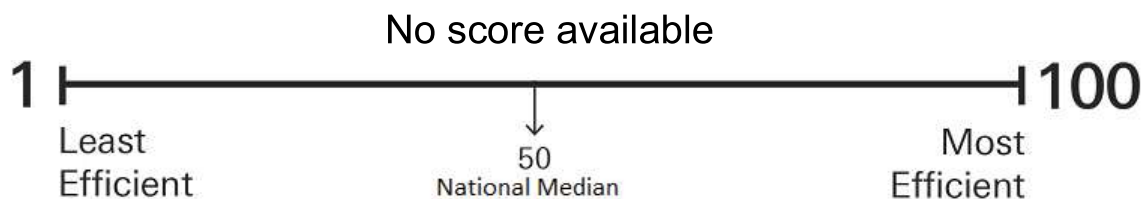
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

## Sheriff Vehicle Storage Building

**1.9**  
kBtu per  
square foot\*

For Year Ending	August 31, 2023
Property Address	90 Ely Street Binghamton, New York 13904
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	6,993
Year built	1960
Energy Use per sq. ft.*	1.9 kBtu



### What is the ENERGY STAR Score?

The ENERGY STAR score rates commercial building's energy performance relative to similar buildings nationwide. Expressed as a number on a simple 1-100 scale, the score rates performance on a percentile basis: a building with a score of 50 performs better than 50% of its peers. Higher scores mean better energy efficiency, resulting in less energy use and fewer greenhouse gas emissions. If a 1-100 score for a specific building type has not been developed, Site Energy Use Intensity (EUI) will be displayed on this scorecard.

### Learn more at:

[energystar.gov/scorecard](https://energystar.gov/scorecard)

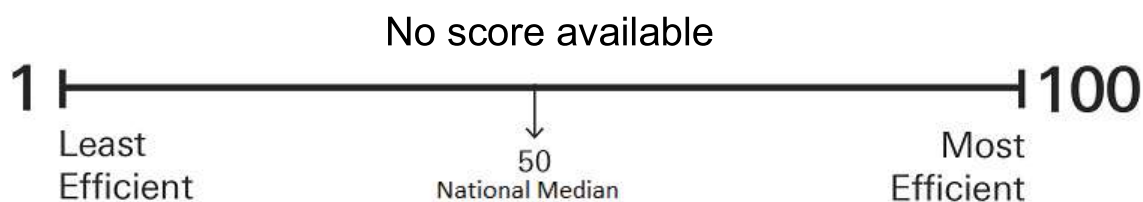
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**23.8**  
**kBtu per**  
**square foot\***

## Soil & Water Conservation District - DPW

For Year Ending	August 31, 2023
Property Address	42 Orchard Drive (100 Cutler Pond Rd) BINGHAMTON, New York 13905
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	6,725
Year built	1980
Energy Use per sq. ft.*	23.8 kBtu



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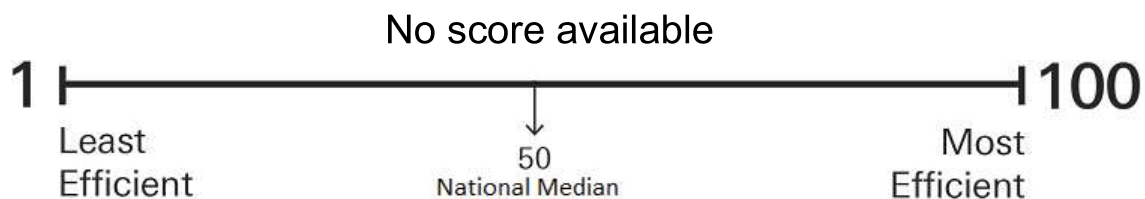
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**38.3**  
kBtu per  
square foot\*

## SWM - Landfill

For Year Ending	September 30, 2023
Property Address	286 Knapp RD BINGHAMTON, New York 13905
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	24,069
Year built	2013
Energy Use per sq. ft.*	38.3 kBtu



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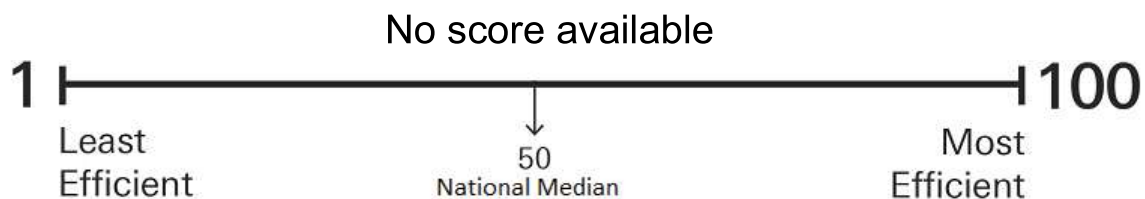


# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**84.7**  
**kBtu per  
square foot\***

## Veterans Memorial Arena

For Year Ending	September 30, 2023
Property Address	1 Stuart Street Binghamton, New York 13901
Primary Function	Indoor Arena
Gross Floor Area (ft <sup>2</sup> )	120,900
Year built	1971
Energy Use per sq. ft.*	84.7 kBtu



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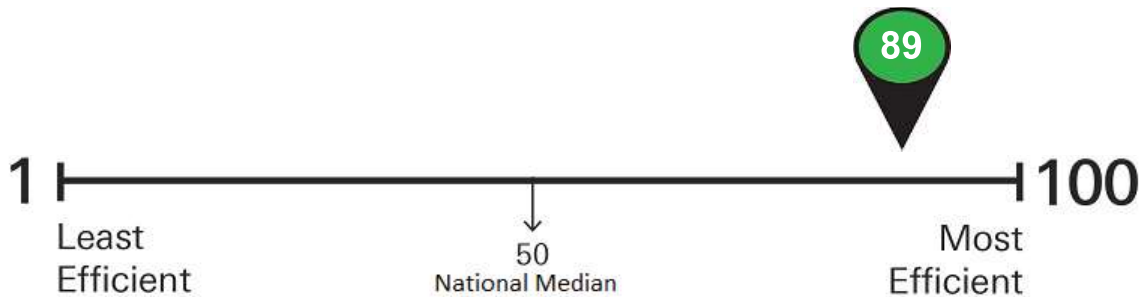
\*Site energy use

# ENERGY STAR<sup>®</sup> Energy Performance Scorecard

**89**  
**out of 100**

## Willow Point Nursing Center

For Year Ending	August 31, 2023
Property Address	3700 Old Vestal Road Vestal, New York 13850
Primary Function	Senior Living Community
Gross Floor Area (ft <sup>2</sup> )	155,849
Year built	1968
Energy Use per sq. ft.*	90.8 kBtu



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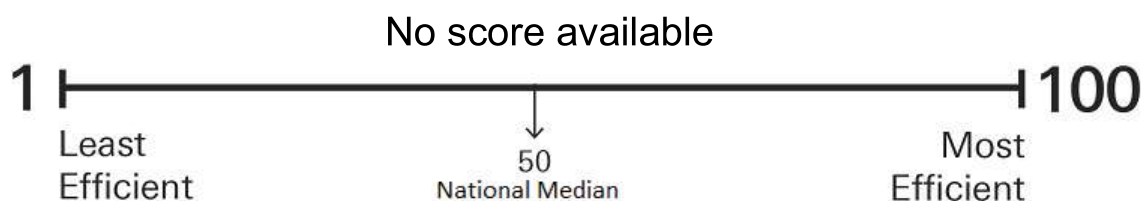
\*Site energy use

# ENERGY STAR® Energy Performance Scorecard

**10.9**  
kBtu per  
square foot\*

## Windsor Highway Salt Storage Facility

For Year Ending	August 31, 2023
Property Address	494 Old Route 17 Windsor, New York 13865
Primary Function	Other - Public Services
Gross Floor Area (ft <sup>2</sup> )	2,650
Year built	2010
Energy Use per sq. ft.*	10.9 kBtu



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\*Site energy use