

Greenhouse Gas Municipal Profiles

Final Report
October 2025

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Final Report 10,29,2025

This document has been prepared by Region 1 Planning Council in collaboration with its member agencies, partnership organizations, and local stakeholders.

This report was prepared in cooperation with the following:

Illinois Department of Transportation

The contents, views, policies, and conclusions expressed in this report are not necessarily those of the above agencies.



AN ENGINE FOR COLLABORATION IN NORTHERN ILLINOIS

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Belvidere, Illinois

Municipal Emissions Summary

Introduction

Belvidere, the county seat of and largest city in Boone County, provides access to Interstate 90, US Route 20, and Illinois Route 76. Union Pacific Railway lines pass through the city, and there are plans for a future expansion of the Metra commuter rail to Chicago. The city has several natural areas for recreation and conservation, as well as the Kishwaukee River, and many bike paths in both recreation areas and the city proper. Much of Belvidere's economy has been based on automobile manufacturing, including at the FCA Belvidere Assembly Plant. Steps Belvidere has taken to address greenhouse gas emissions include solar installations and brownfield redevelopment, exemplified through Route 76 Boone Solar, a community solar facility on a former landfill.

Community Characteristics

Characteristics	Total
Population	25,179
Employment	92.7%
Median Household Income	\$57,507
Land Area (acres)	8102.4

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	150,833.65
Residential Electricity	37,093.36
Non-residential Electricity	16,688.87
Residential Natural Gas	37,180.28
Non-residential Natural Gas	26,269.94

Energy Characteristics

2021 Energy Consumption

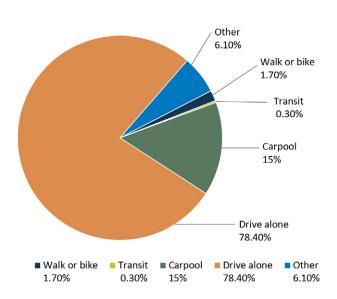
Energy	Total
Residential Electricity (MWh)	81,550.79
Non-residential Electricity (MWh)	36,685.55
Residential Natural Gas (MMBtu)	699,053.18
Non-Residential Natural Gas (MMBtu)	194,253.99

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	272

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	54
Vehicles Per Household	1.85

Byron, Illinois

Municipal Emissions Summary

Introduction

The Village of Byron provides access to Illinois Routes 2 and 72, and the Canadian Pacific Railroad passes through the municipality. In addition to the Rock River along its border, Byron also gives easy access to natural areas through the Jarrett Prairie Nature Preserve within the municipal boundaries and through many forest preserves just outside the village that are managed by the Byron Forest District. Byron produces carbon-free energy through the Byron Generating Station nuclear power plant.

Community Characteristics

Characteristics	Total
Population	3,740
Employment	96.1%
Median Household Income	\$66,620
Land Area (acres)	2,976.00

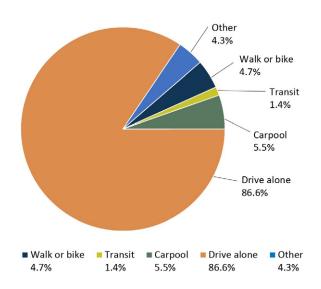
Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	83,541.95
Residential Electricity	6,394.12
Non-residential Electricity	5,722.55
Residential Natural Gas	6,409.07
Non-residential Natural Gas	15,218.40

Transportation Characteristics

Mode of Travel to Work



Energy Characteristics

2021 Energy Consumption

Energy	Total
Residential Electricity (MWh)	14,057.70
Non-residential Electricity (MWh)	12,581.04
Residential Natural Gas (MMBtu)	120,501.92
Non-Residential Natural Gas (MMBtu)	71,879.97

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	64

Vehicles	Total
Electric Vehicles	6
Vehicles Per Household	1.76

Caledonia, Illinois

Municipal Emissions Summary

Introduction

The Village of Caledonia provides access to Illinois Route 173 and has agricultural land both within and surrounding municipal boundaries. The Long Prairie Trail passes through the village, providing opportunities for hiking and biking and a method to reach other parts of the region through active transportation.

Community Characteristics

Characteristics	Total
Population	221
Employment	98.7%
Median Household Income	\$77,222
Land Area (acres)	662.40

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	1,323.89
Residential Electricity	325.57
Non-residential Electricity	146.46
Residential Natural Gas	326.34
Non-residential Natural Gas	230.58

Energy Characteristics

2021 Energy Consumption

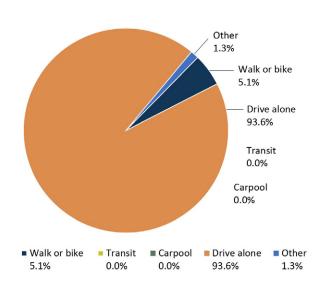
Energy	Total
Residential Electricity (MWh)	715.78
Non-residential Electricity (MWh)	321.99
Residential Natural Gas (MMBtu)	6,135.70
Non-Residential Natural Gas (MMBtu)	1,705.00

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	26

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	6
Vehicles Per Household	2.07

Cherry Valley, Illinois

Municipal Emissions Summary

Introduction

The Village of Cherry Valley provides access to Interstates 90 and 39. It has many natural areas within easy access for residents, including the Blackhawk Springs, Kishwaukee River, Rockford Rotary County, and Deer Run Forest Preserves within the municipal boundaries and the Espenscheid Memorial and Oak Ridge Forest Preserves just outside of them. The Kishwaukee River also passes through the village.

Community Characteristics

Characteristics	Total
Population	2,726
Employment	97.7%
Median Household Income	\$69,358
Land Area (acres)	5,379.20

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	12,731.69
Residential Electricity	4,666.50
Non-residential Electricity	4,490.24
Residential Natural Gas	4,677.40
Non-residential Natural Gas	5,069.60

Energy Characteristics

2021 Energy Consumption

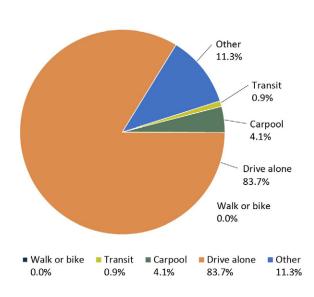
Energy	Total
Residential Electricity (MWh)	10,259.42
Non-residential Electricity (MWh)	9,871.89
Residential Natural Gas (MMBtu)	87,943.37
Non-Residential Natural Gas (MMBtu)	50,577.65

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	36

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	11
Vehicles Per Household	1.82

Davis Junction, Illinois

Municipal Emissions Summary

Introduction

The Village of Davis Junction provides access to Illinois Routes 72 and 251, and the Canadian Pacific Railway and Illinois Railway intersect in the village. There is much farmland within and surrounding municipal boundaries. Davis Junction also hosts the Orchard Hills Landfill, which has a landfill gas-to-energy generation plant to convert waste into usable electricity and reduce methane emissions.

Community Characteristics

Characteristics	Total
Population	2,684
Employment	95.2%
Median Household Income	\$90,039
Land Area (acres)	2,688.00

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	59,953.64
Residential Electricity	4,588.72
Non-residential Electricity	4,106.77
Residential Natural Gas	4,599.45
Non-residential Natural Gas	10,921.44

Energy Characteristics

2021 Energy Consumption

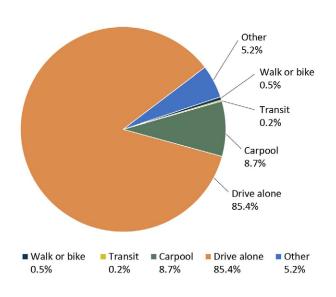
Energy	Total
Residential Electricity (MWh)	10,088.46
Non-residential Electricity (MWh)	9,028.74
Residential Natural Gas (MMBtu)	86,477.85
Non-Residential Natural Gas (MMBtu)	51,584.45

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	26

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	4
Vehicles Per Household	2.30

Loves Park, Illinois

Municipal Emissions Summary

Introduction

The City of Loves Park provides access to Interstate 90 and Illinois Routes 251 and 173, and the Union Pacific Railway passes through the city. Loves Park has a significant natural area for recreation and conservation in Rock Cut State Park, the largest state park in Northern Illinois, in the north of the city. Other natural areas include the Rock River, which borders the city to the west, and Harlem Hills Nature Preserve.

Community Characteristics

Characteristics	Total
Population	23,223
Employment	93.1%
Median Household Income	\$57,894
Land Area (acres)	10,448.00

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	108,462.20
Residential Electricity	39,754.25
Non-residential Electricity	38,252.70
Residential Natural Gas	39,847.15
Non-residential Natural Gas	43,188.27

Energy Characteristics

2021 Energy Consumption

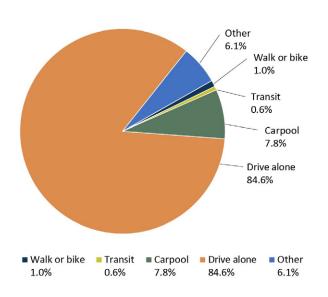
Energy	Total
Residential Electricity (MWh)	87,400.81
Non-residential Electricity (MWh)	84,099.39
Residential Natural Gas (MMBtu)	749,196.23
Non-Residential Natural Gas (MMBtu)	430,874.83

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	100

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	37
Vehicles Per Household	1.75

Machesney Park, Illinois

Municipal Emissions Summary

Introduction

The Village of Machesney Park provides access to Interstate 90 and Illinois Routes 173 and 2. It is bordered by the Rock River to the west, and the Canadian Pacific Railroad also passes through on the west side. The village has several green spaces for recreation, including Williams Park Shore and Atwood Homestead Forest Preserve.

Community Characteristics

Characteristics	Total
Population	22,870
Employment	93.2%
Median Household Income	\$65,442
Land Area (acres)	8,118.40

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	106,813.52
Residential Electricity	39,149.97
Non-residential Electricity	37,671.24
Residential Natural Gas	39,241.46
Non-residential Natural Gas	42,531.79

Energy Characteristics

2021 Energy Consumption

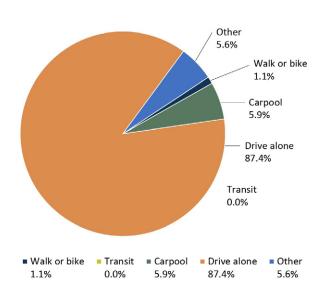
Energy	Total
Residential Electricity (MWh)	86,072.28
Non-residential Electricity (MWh)	82,821.04
Residential Natural Gas (MMBtu)	737,808.11
Non-Residential Natural Gas (MMBtu)	424,325.34

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	183

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	26
Vehicles Per Household	2.02

Monroe Center, Illinois

Municipal Emissions Summary

Introduction

The Village of Monroe Center provides access to Illinois Route 72 and is situated along the Canadian Pacific Railroad. Agricultural land is within and surrounds municipal boundaries.

Community Characteristics

Characteristics	Total
Population	394
Employment	98.0%
Median Household Income	\$82,500
Land Area (acres)	775.68

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	8,800.94
Residential Electricity	673.60
Non-residential Electricity	602.86
Residential Natural Gas	675.18
Non-residential Natural Gas	1,903.22

Energy Characteristics

2021 Energy Consumption

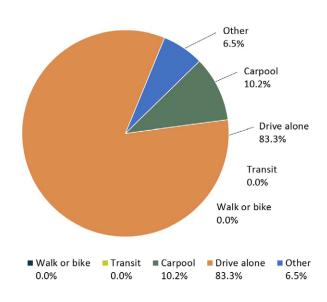
Energy	Total
Residential Electricity (MWh)	1,480.94
Non-residential Electricity (MWh)	1,325.38
Residential Natural Gas (MMBtu)	12,694.59
Non-Residential Natural Gas (MMBtu)	7,572.38

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	8

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	0
Vehicles Per Household	2.21

New Milford, Illinois

Municipal Emissions Summary

Introduction

The Village of New Milford provides access to Interstate 39 and Illinois Route 251. The municipality encompasses farmland, the Kishwaukee River, and Atwood Park, a 334acre park that offers environmental programming to visitors. New Milford has easy access to both transportation hubs and natural areas, as it borders the Chicago Rockford International Airport and the Kishwaukee Gorge South Forest Preserve. The Illinois Railway also runs along the municipal boundary, and the Winnebago Landfill is on its south border.

Community Characteristics

Characteristics	Total
Population	1,242
Employment	95.1%
Median Household Income	\$63,182
Land Area (acres)	1,731.20

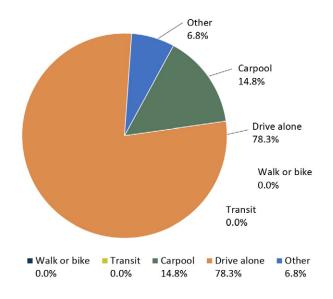
Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	5,800.72
Residential Electricity	2,126.12
Non-residential Electricity	2,045.81
Residential Natural Gas	2,131.08
Non-residential Natural Gas	2,309.77

Transportation Characteristics

Mode of Travel to Work



Energy Characteristics

2021 Energy Consumption

Energy	Total
Residential Electricity (MWh)	4,674.32
Non-residential Electricity (MWh)	4,497.76
Residential Natural Gas (MMBtu)	40,068.11
Non-Residential Natural Gas (MMBtu)	23,043.82

Renewable Energy Information

	Renewable Energy	Total
R	ooftop Solar Panel Installations	n/a

Vehicles	Total
Electric Vehicles	n/a
Vehicles Per Household	2.25

Poplar Grove, Illinois

Municipal Emissions Summary

Introduction

The Village of Poplar Grove provides access to Illinois Routes 173 and 76 and has a local airstrip, Poplar Grove Airmotive. The Long Prairie Trail passes through the village, providing opportunities for hiking and biking and a method to reach other parts of the region through active transportation. Other features within municipal boundaries include agricultural land and a community solar installation, which provides clean energy to local residents.

Community Characteristics

Characteristics	Total
Population	4,514
Employment	94.8%
Median Household Income	\$104,559
Land Area (acres)	5,041.28

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	27,040.91
Residential Electricity	6,649.96
Non-residential Electricity	2,991.56
Residential Natural Gas	6,665.55
Non-residential Natural Gas	4,709.58

Energy Characteristics

2021 Energy Consumption

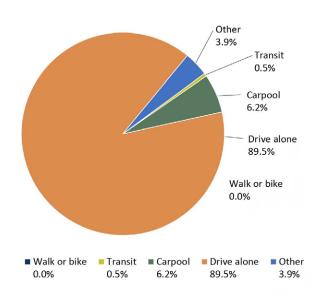
Energy	Total
Residential Electricity (MWh)	14,620.13
Non-residential Electricity (MWh)	6,576.85
Residential Natural Gas (MMBtu)	125,323.72
Non-Residential Natural Gas (MMBtu)	34,825.15

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	97

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	15
Vehicles Per Household	2.23

Rockford, Illinois

Municipal Emissions Summary

Introduction

The county seat of Winnebago County and the fifth most populous city in Illinois, the City of Rockford provides access to Interstates 90 and 39, US Highway 20, and Illinois Routes 251, 2, and 70. Other transportation options for residents include the Chicago Rockford International Airport and paths and trails for walking and biking. Canadian Pacific and Union Pacific rail lines pass through the city, and there are plans for a future expansion of the Metra commuter rail to Chicago. Rockford's natural features include waterways, such as the Rock and Kishwaukee Rivers and Keith and Spring Creeks, and public parks and gardens. Rockford has taken numerous actions to address greenhouse gas emissions, which include siting several solar facilities within municipal boundaries and beginning to electrify its public bus fleet.

Community Characteristics

Characteristics	Total
Population	148,942
Employment	90.4%
Median Household Income	\$47,002
Land Area (acres)	41,800.32

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	695,628.32
Residential Electricity	254,966.09
Non-residential Electricity	245,335.79
Residential Natural Gas	255,561.91
Non-residential Natural Gas	276,990.35

Energy Characteristics

2021 Energy Consumption

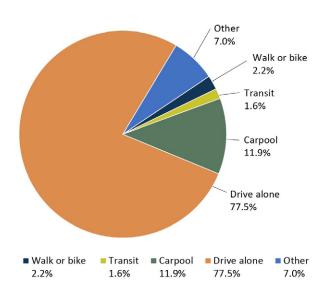
Energy	Total
Residential Electricity (MWh)	560,549.94
Non-residential Electricity (MWh)	539,376.12
Residential Natural Gas (MMBtu)	4,805,011.64
Non-Residential Natural Gas (MMBtu)	2,763,439.64

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	610
SolSmart Designation	Gold

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	182
Vehicles Per Household	1.53

Roscoe, Illinois

Municipal Emissions Summary

Introduction

The Village of Roscoe provides access to Interstate 90 and Illinois Route 251. The Rock River passes through Roscoe and provides several areas for nature and recreation, including Riverside Park and Porter Park. Roscoe is also bordered by several natural preserves, including the Hononegah and Roland Olson County Forest Preserves and the Kinnikinnick Creek Nature Preserve.

Community Characteristics

Characteristics	Total
Population	11,092
Employment	96.6%
Median Household Income	\$101,250
Land Area (acres)	6,569.60

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	51,804.79
Residential Electricity	18,987.82
Non-residential Electricity	18,270.63
Residential Natural Gas	19,032.19
Non-residential Natural Gas	20,628.01

Energy Characteristics

2021 Energy Consumption

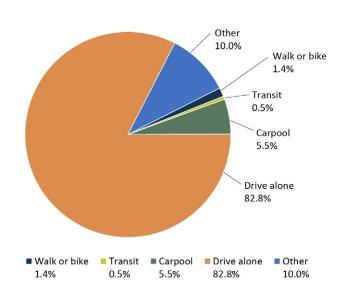
Energy	Total
Residential Electricity (MWh)	41,745.24
Non-residential Electricity (MWh)	40,168.39
Residential Natural Gas (MMBtu)	357,838.55
Non-Residential Natural Gas (MMBtu)	205,798.72

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	150

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	33
Vehicles Per Household	2.17

Stillman Valley, Illinois

Municipal Emissions Summary

Introduction

The Village of Stillman Valley provides access to Illinois Route 72, and the Canadian Pacific Railway runs along its northern edge. The village is bordered by Stillman Creek and by agricultural land. Stillman Valley also has its own wastewater treatment facility.

Community Characteristics

Characteristics	Total
Population	1,277
Employment	97.5%
Median Household Income	\$74,773
Land Area (acres)	364.80

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	28,524.89
Residential Electricity	2,186.03
Non-residential Electricity	2,103.46
Residential Natural Gas	2,188.34
Non-residential Natural Gas	5,196.23

Energy Characteristics

2021 Energy Consumption

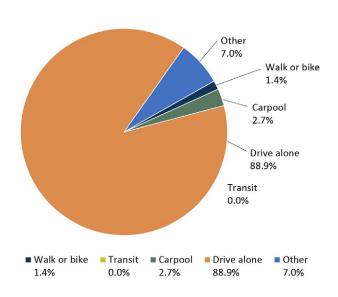
Energy	Total
Residential Electricity (MWh)	4,799.91
Non-residential Electricity (MWh)	4,624.51
Residential Natural Gas (MMBtu)	41,144.64
Non-Residential Natural Gas (MMBtu)	24,542.97

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	16

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	4
Vehicles Per Household	2.06

Timberlane, Illinois

Municipal Emissions Summary

Introduction

The Village of Timberlane provides access to Illinois Route 76. The village contains significant tree cover, as well as Boone Lake, and is surrounded by agricultural land.

Community Characteristics

Characteristics	Total
Population	1,323
Employment	87.5%
Median Household Income	\$175,625
Land Area (acres)	1,117.44

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total
On-road Transportation	7,925.37
Residential Electricity	1,949.03
Non-residential Electricity	876.79
Residential Natural Gas	1,953.59
Non-residential Natural Gas	10,206.84

Energy Characteristics

2021 Energy Consumption

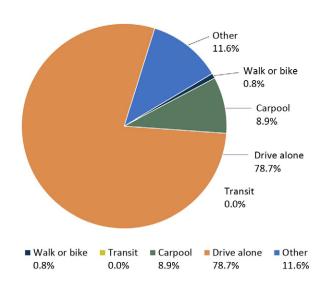
Energy	Total
Residential Electricity (MWh)	4,284.99
Non-residential Electricity (MWh)	1,927.60
Residential Natural Gas (MMBtu)	36,730.90
Non-Residential Natural Gas (MMBtu)	10,206.84

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	n/a

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	0
Vehicles Per Household	2.78

Winnebago, Illinois

Municipal Emissions Summary

Introduction

The Village of Winnebago provides access to US Route 20, and it is surrounded by farmland. The Pecatonica Prairie Trail passes through Winnebago, providing opportunities for walking and biking.

Community Characteristics

Characteristics	Total
Population	3,323
Employment	96.4%
Median Household Income	\$85,300
Land Area (acres)	1,237.76

Emissions Summary

2021 Emissions Summary (MTCO₂e)

Emissions Category	Total	
On-road Transportation	15,519.95	
Residential Electricity	5,688.47	
Non-residential Electricity	5,473.61	
Residential Natural Gas	5,701.76	
Non-residential Natural Gas	6,179.85	

Energy Characteristics

2021 Energy Consumption

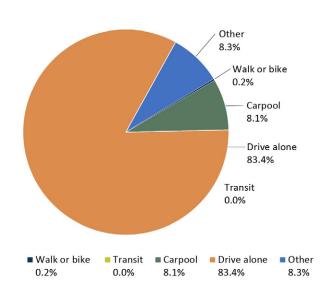
Energy	Total
Residential Electricity (MWh)	12,506.26
Non-residential Electricity (MWh)	12,033.86
Residential Natural Gas (MMBtu)	107,203.16
Non-Residential Natural Gas (MMBtu)	61,654.27

Renewable Energy Information

Renewable Energy	Total
Rooftop Solar Panel Installations	58

Transportation Characteristics

Mode of Travel to Work



Vehicles	Total
Electric Vehicles	8
Vehicles Per Household	2.05

Methodology

Municipal Emissions Inventory

Methodology Table

Data Field	Unit	Source	Notes
Population	People	US Census Bureau. American Community Survey (ACS) 2021 5-Year Estimates Selected Population Data Profiles, Table DP05	https://data.census.gov/table/ ACSDP5YSPT2021.DP05
Employment	Percent employed (civilian labor force 16 years and over)	US Census Bureau. American Community Survey (ACS) 2021 5-Year Estimates Selected Population Data Profiles, Table DP05	https://data.census.gov/table/ ACSDP5YSPT2021.DP05
Median Household Income	2021 U.S. Dollars	US Census Bureau. American Community Survey (ACS) 2021 5-Year Estimates Selected Population Data Profiles, Table DP05	https://data.census.gov/table/ ACSDP5YSPT2021.DP05
Land Area	Acres	US Census Bureau. Gazetteer Files, 2021	https://www.census.gov/ geographies/reference-files/time- series/geo/gazetteer-files.2021. html#list-tab-264479560
On-road Transportation	MTCO₂e	Region 1 Planning Council. 2025 GHG Emissions Inventory & Air Quality Assessment	Downscaled emissions from the county to the municipality, utilizing the municipal population
Residential Electricity	MTCO₂e	Region 1 Planning Council. 2025 GHG Emissions Inventory & Air Quality Assessment	Downscaled emissions from the county to the municipality, utilizing the municipal population
Non-residential Electricity	MTCO₂e	Region 1 Planning Council. 2025 GHG Emissions Inventory & Air Quality Assessment	Downscaled emissions from the county to the municipality, utilizing the municipal population
Residential Natural Gas	MTCO₂e	Region 1 Planning Council. 2025 GHG Emissions Inventory & Air Quality Assessment	Downscaled emissions from the county to the municipality, utilizing the municipal population
Non-residential Natural Gas	MTCO₂e	Region 1 Planning Council. 2025 GHG Emissions Inventory & Air Quality Assessment	Downscaled emissions from the county to the municipality, utilizing the municipal population

Data Field	Unit	Source	Notes
Mode of Travel to Work	Percent of workers 16 years and over	US Census Bureau. American Community Survey (ACS) 2021 5-Year Estimates Detailed Tables, Table B08301: Means of Transportation to Work	https://data.census.gov/table/ ACSDT5Y2021.B08301
Electric Vehicles	Vehicles	The Office of the Illinois Secretary of State 2021	https://www.ilsos.gov/departments/ vehicles/statistics/electric/2021/ electric121521.pdf
			https://www.ilsos.gov/content/dam/departments/vehicles/statistics/electric/2025/electric011525.pdf
Vehicles Per Household	Vehicles/ household	US Census Bureau. American Community Survey (ACS) 2021 5-Year Estimates Detailed Tables, Table B08201: Household Size by Vehicle Available	https://data.census.gov/table/ ACSDT5Y2021.B08201
Rooftop Solar Panel Installations	Installations	Berkeley Lab. U.S. Distributed Solar and Storage Data 2023	https://emp.lbl.gov/tracking-the- sun/
Residential Electricity	MWh	Region 1 Planning Council. 2025 GHG Emissions Inventory & Air Quality Assessment	Downscaled county consumption to the municipal level, utilizing the municipal population
Non-residential Electricity	MWh	Region 1 Planning Council. 2025 GHG Emissions Inventory & Air Quality Assessment	Downscaled county consumption to the municipal level, utilizing the municipal population
Residential Natural Gas	MMBtu	Region 1 Planning Council. 2025 GHG Emissions Inventory & Air Quality Assessment	Downscaled county consumption to the municipal level, utilizing the municipal population
Non-residential Natural Gas	MMBtu	Region 1 Planning Council. 2025 GHG Emissions Inventory & Air Quality Assessment	Downscaled county consumption to the municipal level, utilizing the municipal population



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