

St. Charles

2019 municipal emissions summary

This local emissions summary was developed as part of the 2019 greenhouse gas emissions inventory for northeastern Illinois. The summary is not an exhaustive inventory but captures greenhouse gas emissions from most major sources. It is intended to help decision makers understand key emissions sources and provide communities with the information needed to begin developing emissions reduction plans. For more details on the methods and data sources used to prepare the summary, please refer to the [local emissions summaries methodology](#).

Community characteristics

Population	33,081
Jobs (full- and part-time)	21,948
Median household income	\$98,393
Share of owner-occupied housing units	72%
Land area (acres)	9,616
Tree coverage*	26%
Impervious surfaces*	39%
Greenest region compact member	Yes

*percent of land area

Emissions summary

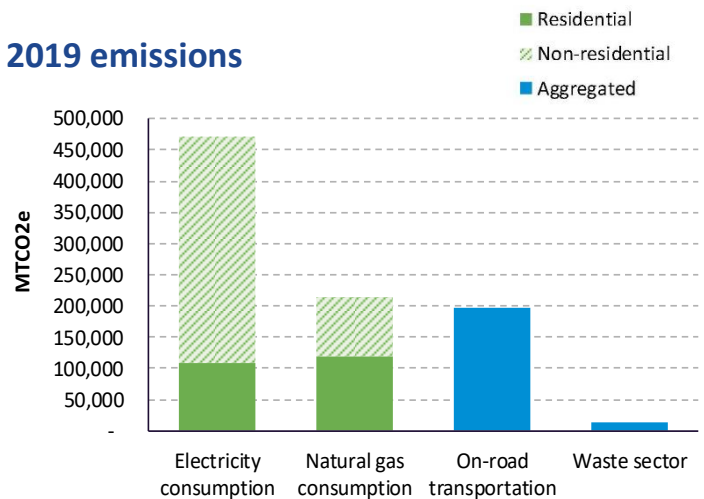


2019 emissions summary (MTCO₂e)

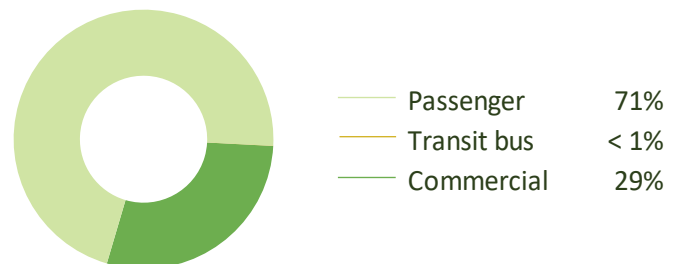
Residential electricity	108,570
Non-residential electricity	362,123
Residential natural gas	118,506
Non-residential natural gas	94,836
On-road transportation	195,927
Waste sector	14,380

MTCO₂e = metric tons of carbon dioxide equivalent

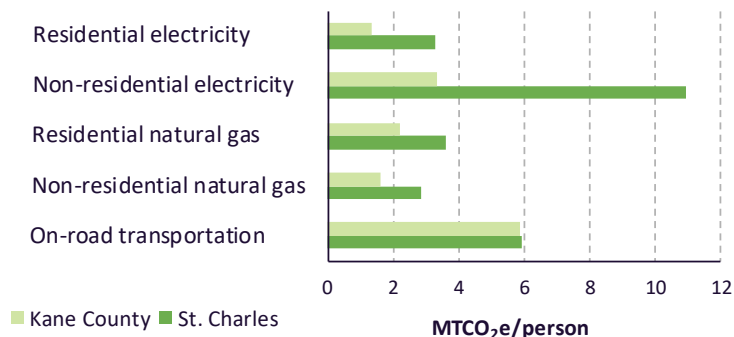
2019 emissions



On-road transportation emissions breakout



2019 per capita emissions



Energy characteristics



2019 energy consumption

Residential electricity (kWh)	118,308,477
Non-residential electricity (kWh)	393,887,376
Residential natural gas (MMBtu)	2,231,146
Non-residential natural gas (MMBtu)	1,785,510

kWh = kilowatt hours; MMBtu = million British thermal unit

Renewable energy information

Solar potential (megawatts)	251
SolSmart designation	NA

Data not available for all municipalities

2019 per capita energy consumption

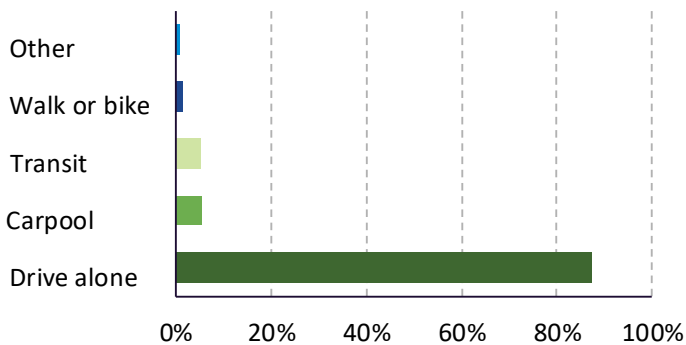
	St. Charles	Kane County	CMAP Region
Residential electricity (kWh/person)	3,576	3,134	2,844
Non-residential electricity (kWh/person)	11,907	7,489	7,279
Residential natural gas (MMBtu/person)	67	42	38
Non-residential natural gas (MMBtu/person)	54	31	38

kWh = kilowatt hours; MMBtu = million British thermal unit

Transportation characteristics



Mode of travel to work



Electric vehicle information

Electric vehicles	84
Public charging stations: level 2	2
Public charging stations: DC fast	1
Public charging stations: total	3

Transportation details

	St. Charles	Kane County	CMAP Region
Vehicles per household	1.9	2.6	2.0
Electric vehicles (% of passenger vehicles)	0.2%	0.2%	0.2%
Share of residents with at least moderate walkability	36%	38%	64%
Share of residents with at least moderate transit access	17%	52%	74%
Residential vehicle miles traveled (per household)	21,360	22,219	17,165

Data are not available for all municipalities