

# Allentown GHG Inventory 2020

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# Background Information

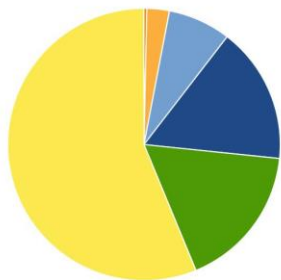
- Program run with ICLEI through the PA DEP
- Data was collected from a 2018 base year
- Based off the requirements for the U.S Community Protocol for Accounting and Reporting Greenhouse Gas Emissions, we collected data for:
  - Residential Energy
  - Industrial Energy
  - Commercial Energy
  - Transportation and Mobile Sources
  - Solid Waste
  - Water and Wastewater
- Data Collection and Input into Clearpath

# Methodology

- Attended 7 training sessions conducted by ICLEI
- Sent out data requests to utilities and collected publicly available data
  - Done through the use of predrafted questionnaires prepared by ICLEI and public information ICLEI directed us to use
- Completed calculations and Input data into ICLEI's provided master data workbook
- Additionally input the data into Clearpath to run emission calculations
- Submitted all materials to ICLEI for review and finalization
- What's next: Climate action inventory

# Overall Emissions

CO<sub>2</sub>e By Category



Water & Wastewater   Solid Waste   Industrial Energy  
Residential Energy   Commercial Energy   Transportation & Mobile Sources

- Transportation and other Mobile Sources:  
1,350,888 metric tons CO<sub>2</sub>e
- Commercial Energy: 411,503 metric tons CO<sub>2</sub>e
- Residential Energy: 388,977 metric tons CO<sub>2</sub>e
- Industrial Energy: 179,079 metric tons CO<sub>2</sub>e
- Solid Waste: 64,245 metric tons CO<sub>2</sub>e
- Water and Wastewater: 7,877 metric tons CO<sub>2</sub>e

# Category Sources

- Transportation: PennDot
- Off-Road Data: EPA National Emissions Inventory
- Electricity: PPL
- Natural Gas: UGI
- Non-Utility Fuels: United States Census Data- American Community Survey
- Water and Wastewater: Lehigh County Authority
- Solid Waste Data: Lehigh County Authority

# Transportation and Mobile Sources

PennDot Motorcycle: 7,396 metric tons CO<sub>2</sub>e

PennDot Light Truck: 218,187 metric tons CO<sub>2</sub>e

PennDot Heavy Truck: 357,168 metric tons CO<sub>2</sub>e

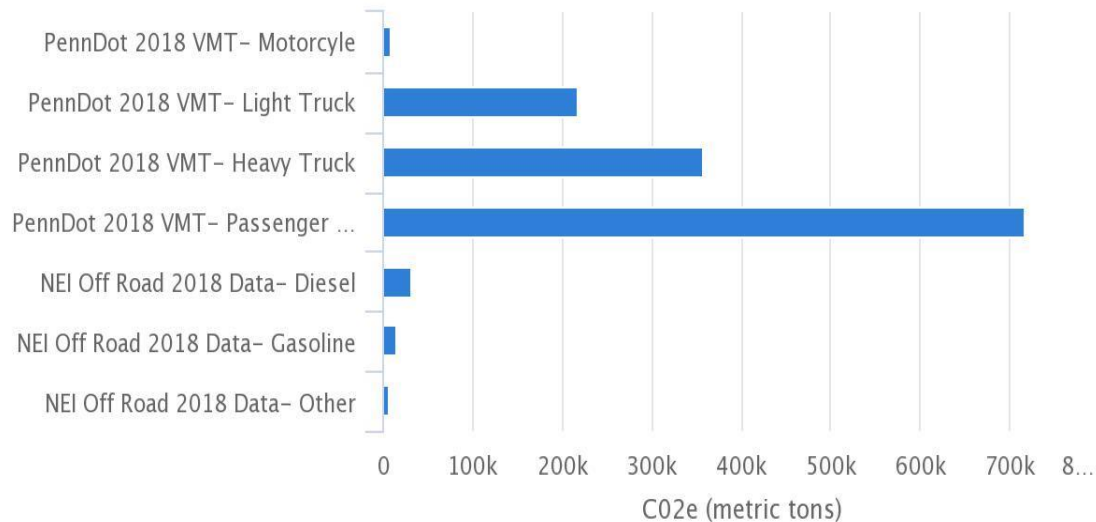
PennDot Passenger Vehicle: 716,020 metric tons CO<sub>2</sub>e

NEI Diesel: 30,755 metric tons CO<sub>2</sub>e

NEI Gasoline: 15,474 metric tons CO<sub>2</sub>e

NEI Other: 5,888 metric tons CO<sub>2</sub>e

## CO<sub>2</sub>e By Record

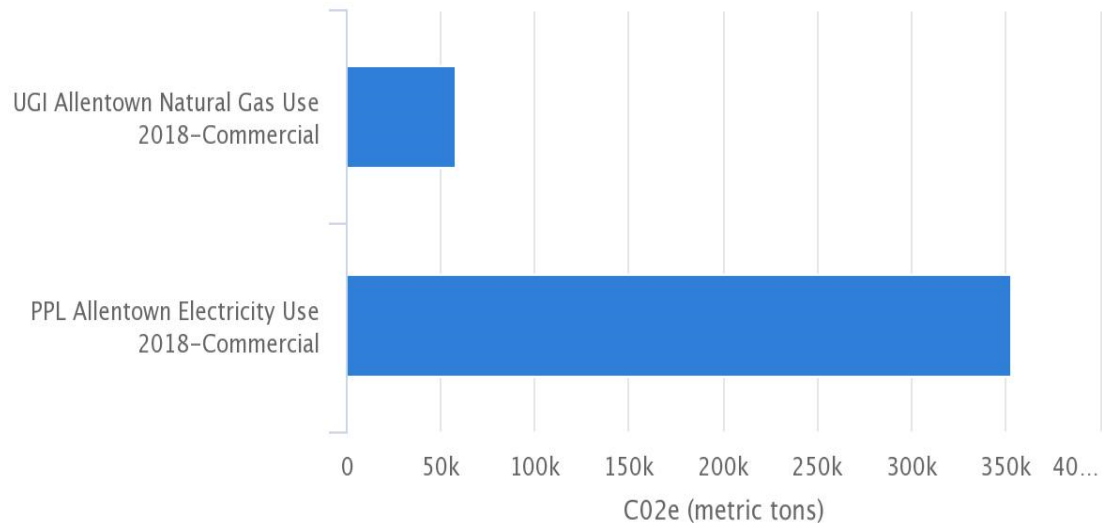


# Commercial Energy

UGI Natural Gas: 58,336 metric tons CO<sub>2</sub>e

PPL Electricity: 353,167 metric tons CO<sub>2</sub>e

CO<sub>2</sub>e By Record



# Residential Energy

Non-Utility Fuel Propane: 2,180 metric tons CO2e

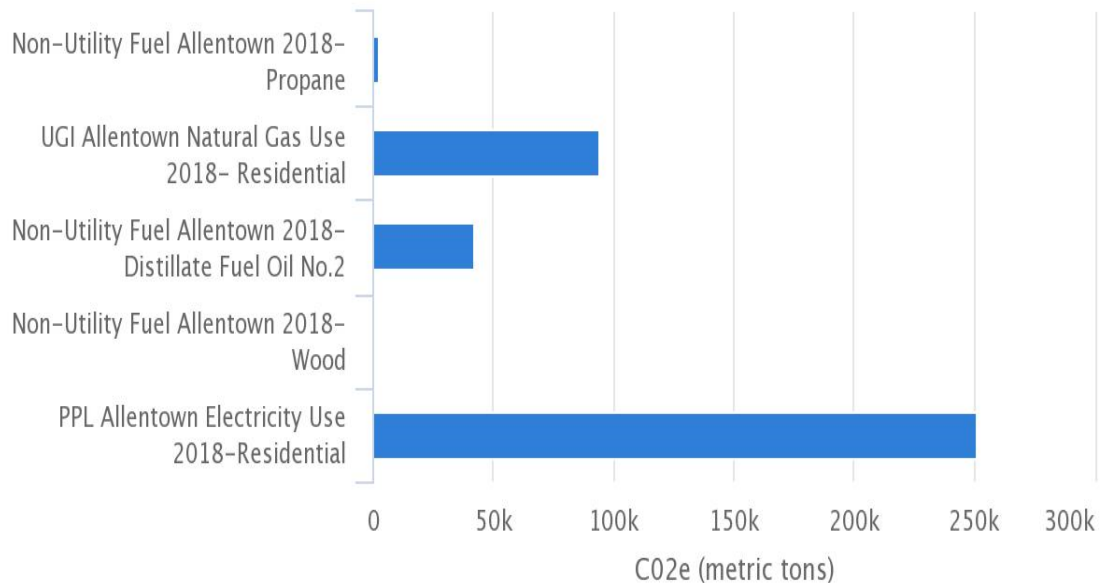
UGI Natural Gas: 94,034 metric tons CO2e

Non-Utility Fuel Oil No.2: 41,977 metric tons CO2e

Non-Utility Fuel Wood: 120 metric tons CO2e

PPL Electricity: 250,666 metric tons CO2e

## CO2e By Record





# Industrial Energy

UGI Natural Gas: 49,816 metric tons CO2e

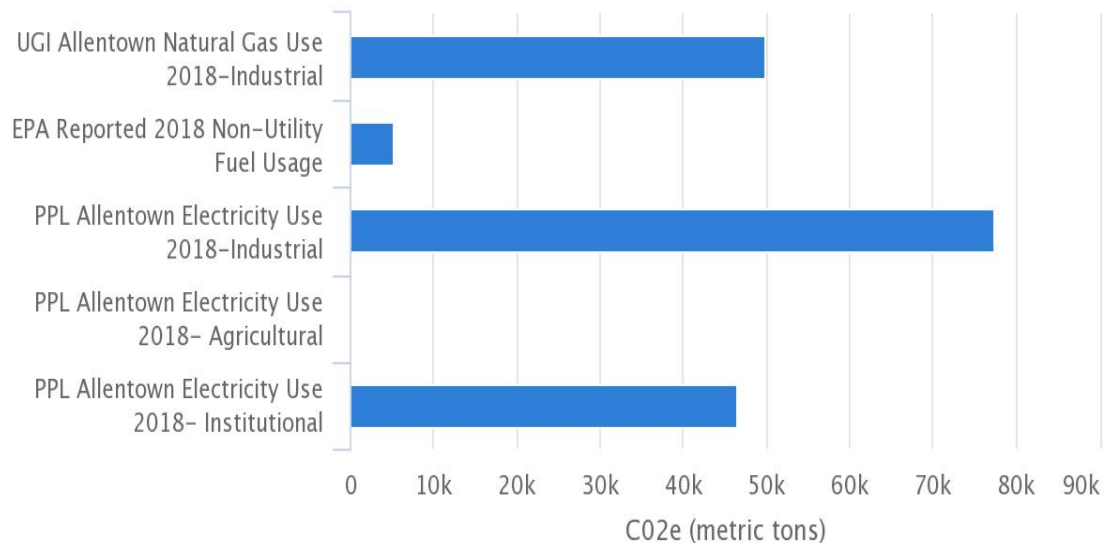
EPA Non-Utility Fuel: 5,153 metric tons CO2e

PPL Electricity Industrial: 77,294 metric tons CO2e

PPL Electricity Agricultural: 296 metric tons CO2e

PPL Electricity Institutional: 46,520 metric tons CO2e

## CO2e By Record

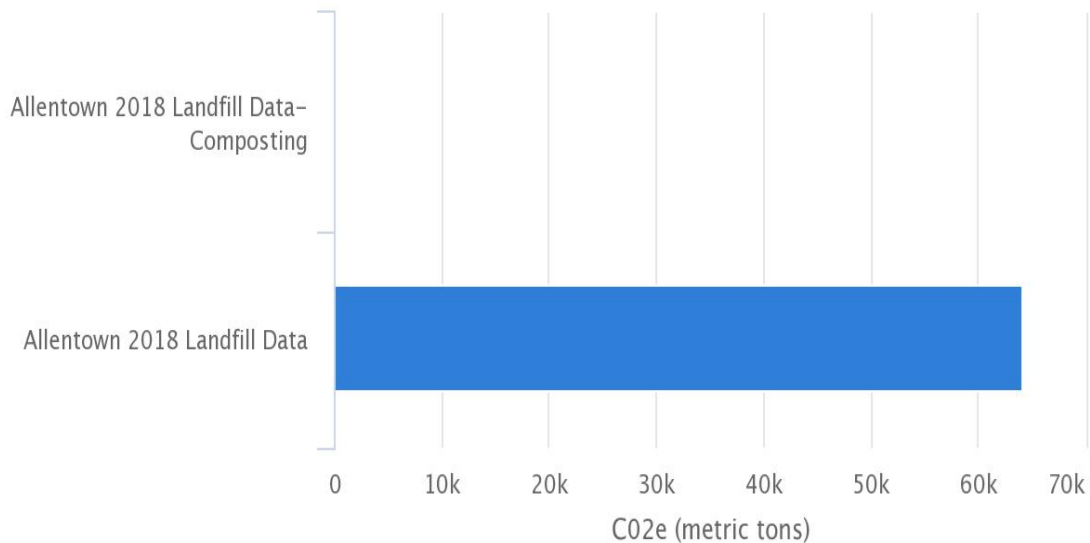


# Solid Waste

Composting: 162 metric tons CO<sub>2</sub>e

Landfill: 64,092 metric tons CO<sub>2</sub>e

## CO<sub>2</sub>e By Record



# Water and Wastewater

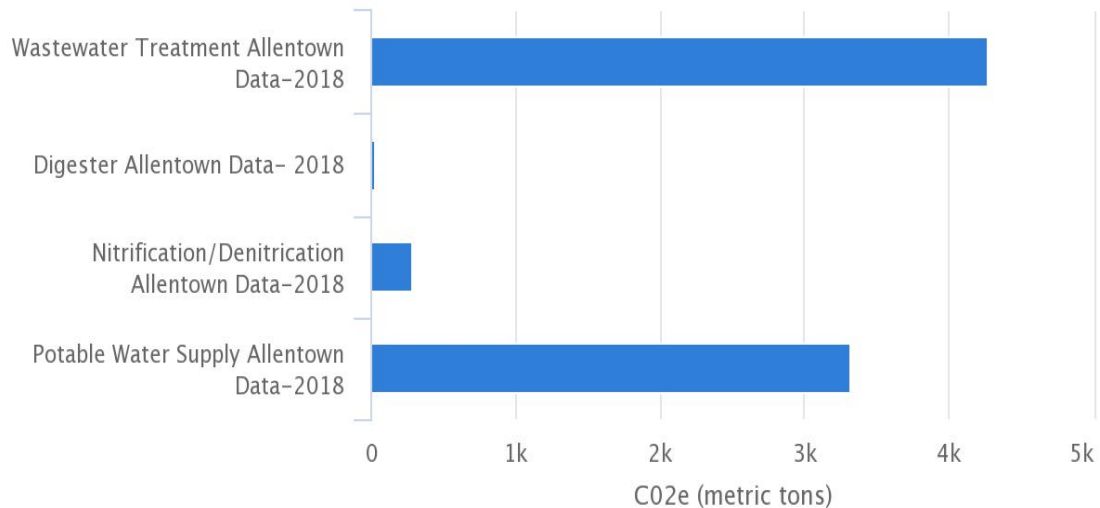
Wastewater: 4,262 metric tons CO<sub>2</sub>e

Digester: 21 metric tons CO<sub>2</sub>e

Nitrification/Denitrification: 282 metric tons CO<sub>2</sub>e

Potable Water: 3,312 metric tons CO<sub>2</sub>e

## CO<sub>2</sub>e By Record



# Any Questions?

