







Energy Programs Office

Climate Change Advisory Committee Meeting

June 30, 2020

- Introduction
- Public Comment (15 minutes)
- Local Gov't Climate Action Plan Presentation (15 min presentation, 10 min discussion)
- GreenGov Presentation by Mark Hand (20 minute presentation, 10 minute discussion)
- Presentation on DRAFT 2017 GHG Inventory by DEP (20 minute presentation, 10 minute discussion)
- Old and New Business (15 minutes)
- Next Steps/Next meeting (8/25/2020)



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Introduction

Approval of April 30, 2020 minutes



Introduction

Status of 2021 Impacts Assessment/CAP contracting



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DRAFT 2020 Pennsylvania Greenhouse Gas Emission Inventory

Climate Change Advisory Committee
June 30, 2020

GHG Emission Inventory

- ➤ State Inventory Tool:
 - Made available in November 2019.
 - Updated all 11 modules with data through 2017.



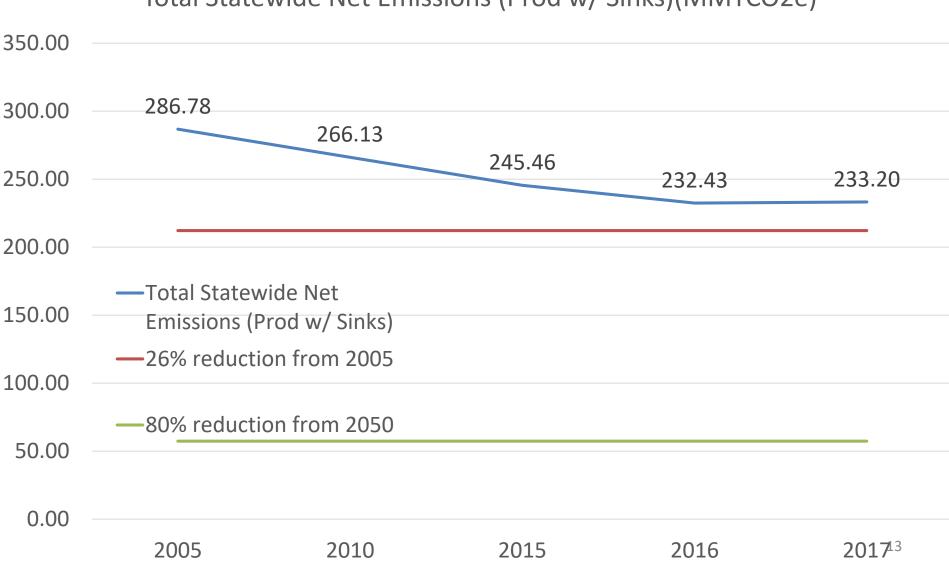
Emission Inventory

- The 2020 GHG Inventory (2017 data) shows a continued trend of overall decreased emissions from 2005.
- Net emissions increased in 2017 from 2016.
- The biggest decrease since 2016 came from the electricity production sector, with a decrease of 5.34 MMTCO₂e.
- This decrease is counteracted by increases in the transportation (3.55 MMTCO₂e) and industrial (2.48 MMTCO₂e) sectors.



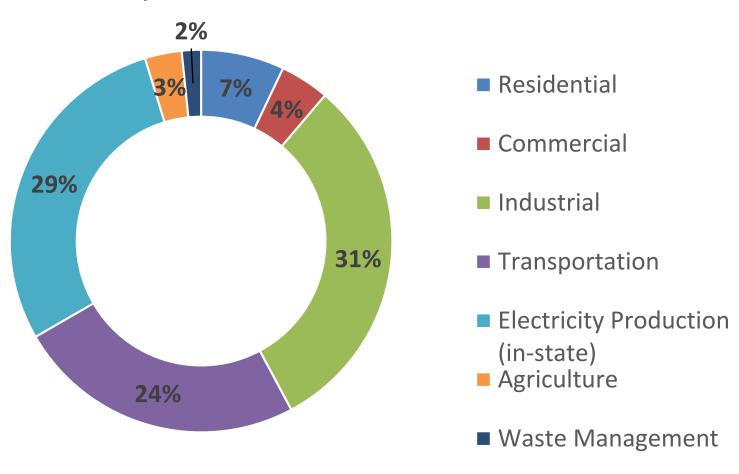
GHG Inventory Results

Total Statewide Net Emissions (Prod w/ Sinks)(MMTCO2e)



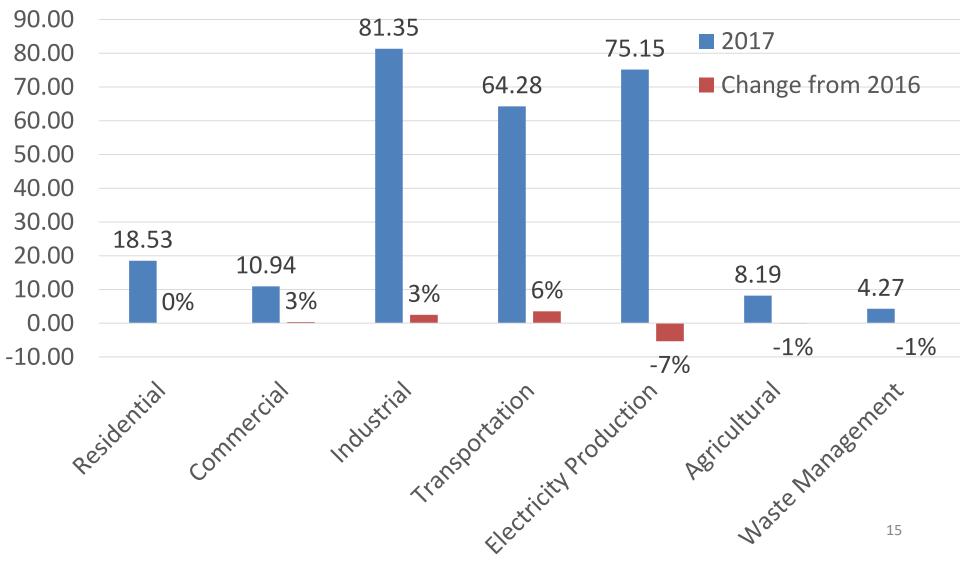
GHG Inventory Results

Pennsylvania 2017 GHG Emissions

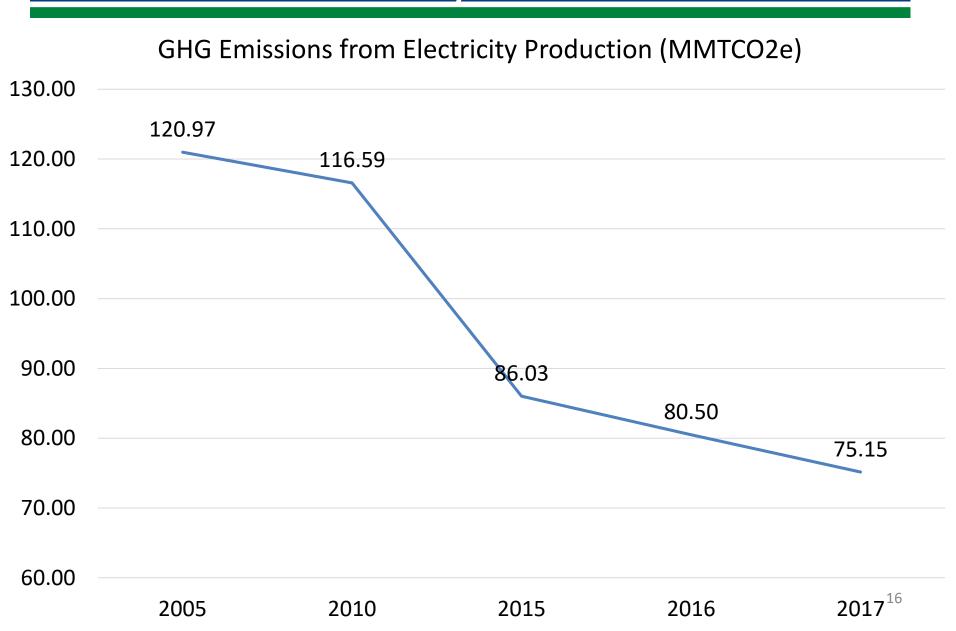


Results By Sector





Electricity Production



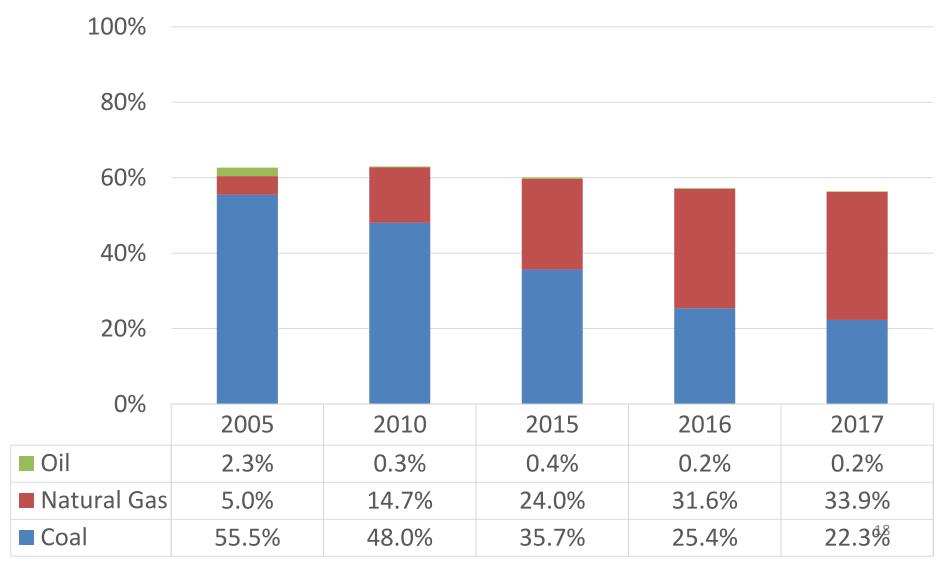
Electricity Production

Total Electricity Generated, Consumed, and Exported (TWh)



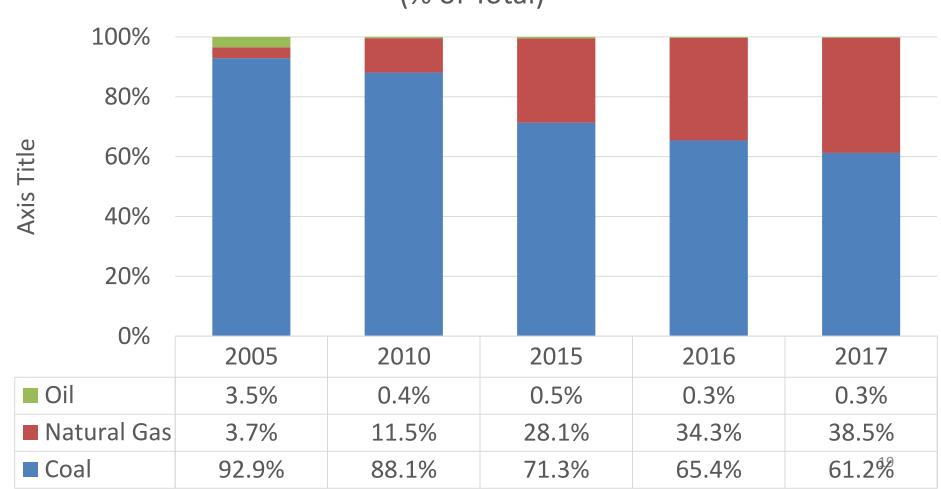
Electricity Production Emissions

Percent Electricity Production By Fuel Type



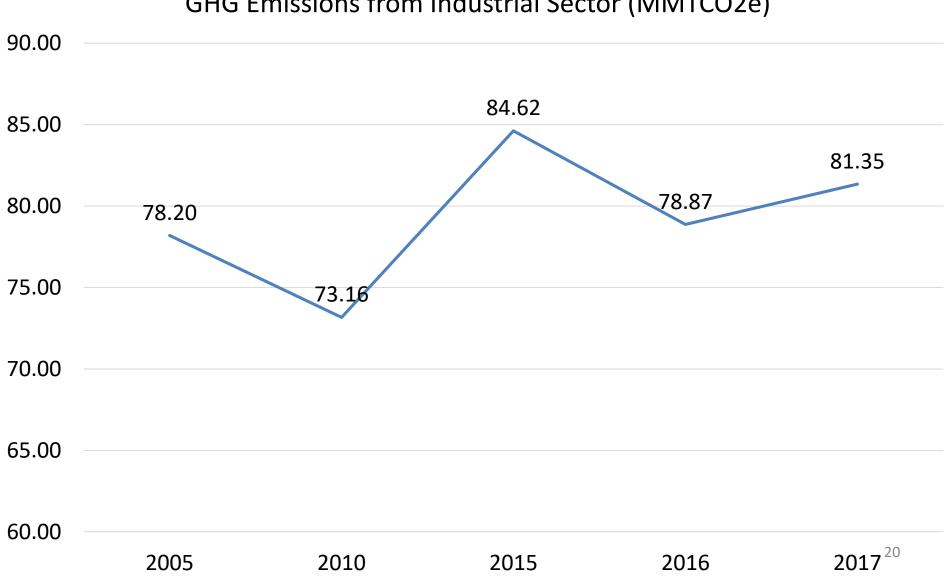
Electricity Production Emissions

GHG Emissions from Electricity Production Sector by
Source
(% of Total)



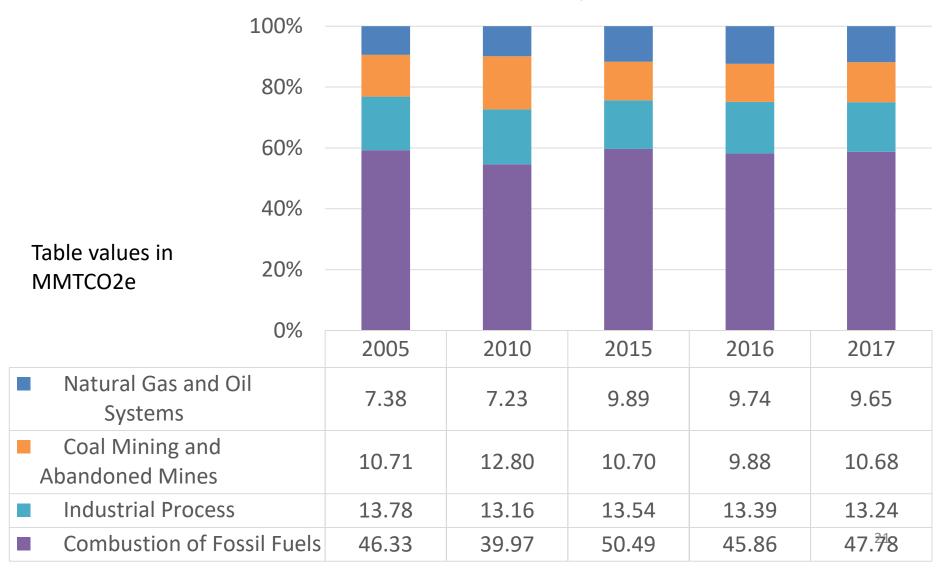
Industrial Sector Emissions

GHG Emissions from Industrial Sector (MMTCO2e)



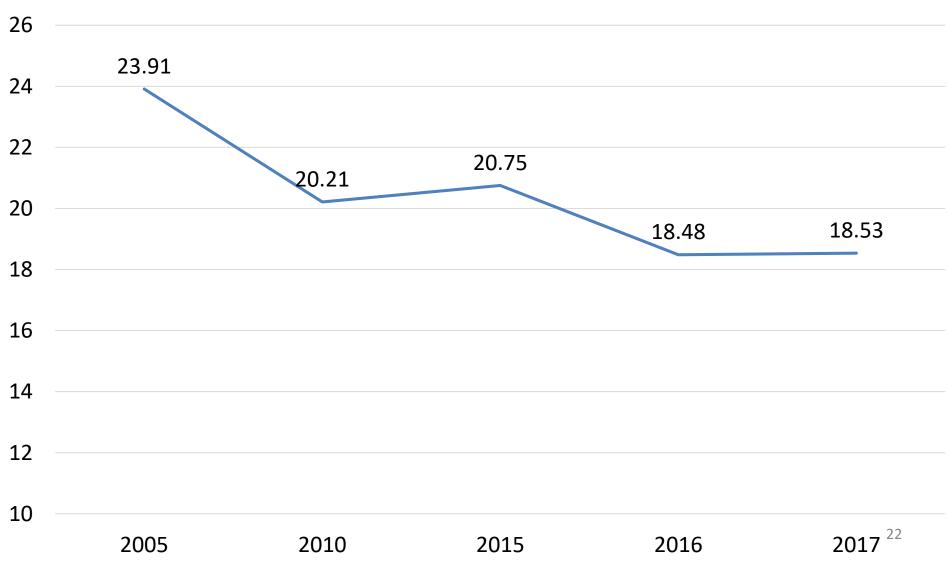
Industrial Sector Emissions

GHG Emissions from Industrial Sector by Source (% of Total)



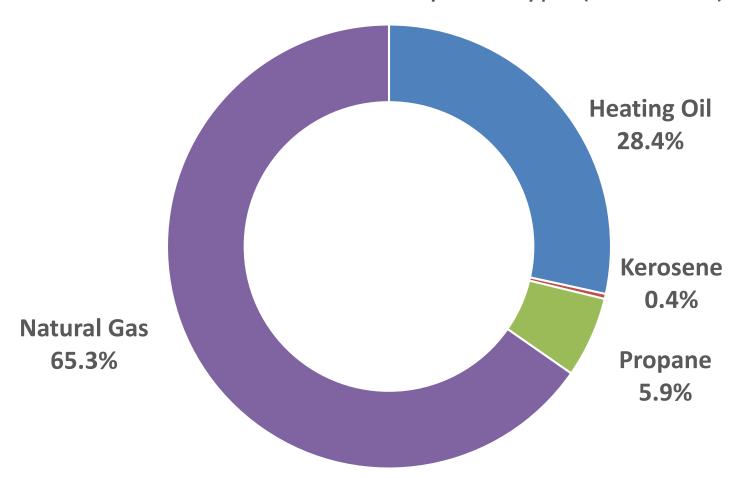
Residential Sector

GHG Emissions from Residential Sector (MMTCO2e)



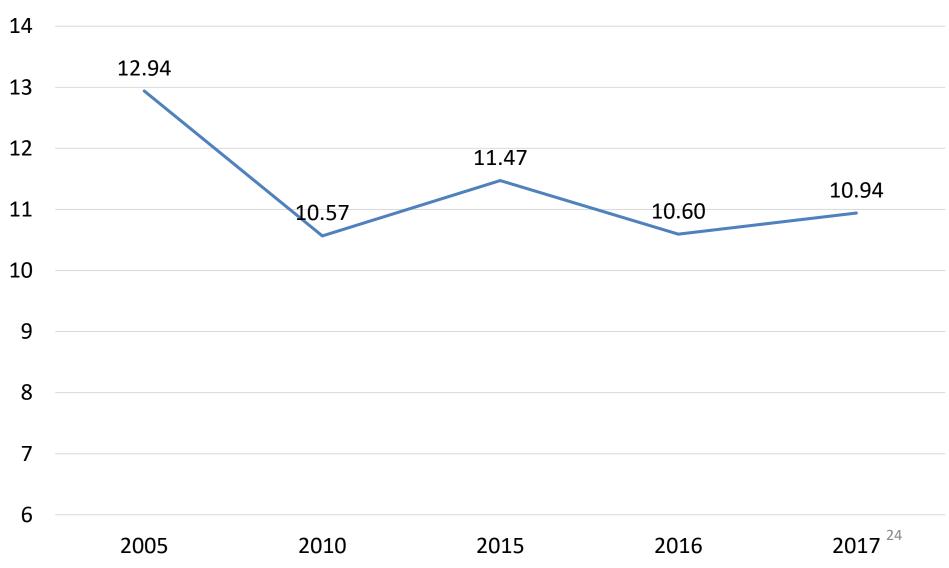
Residential Sector

2017 Residential Emissions by Fuel Type (% of Total)



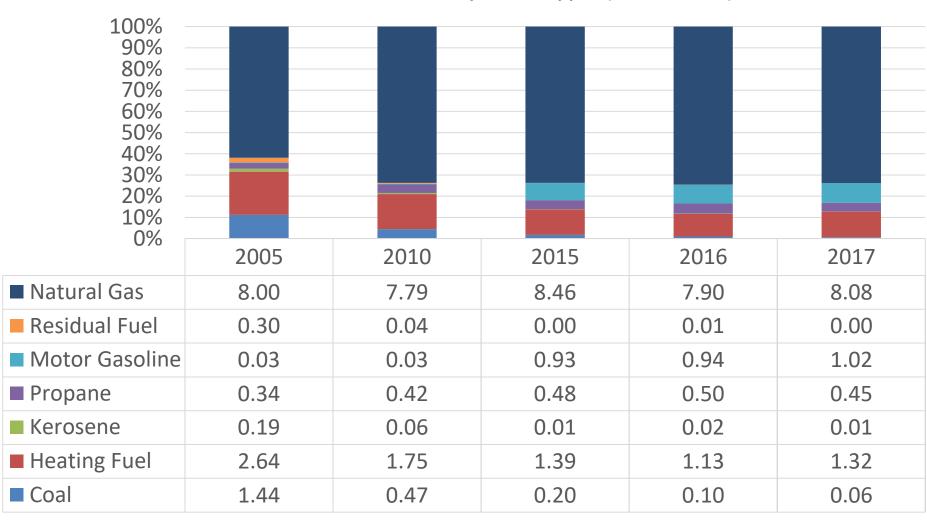
Commercial Sector

GHG Emissions from Commercial Sector (MMTCO2e)



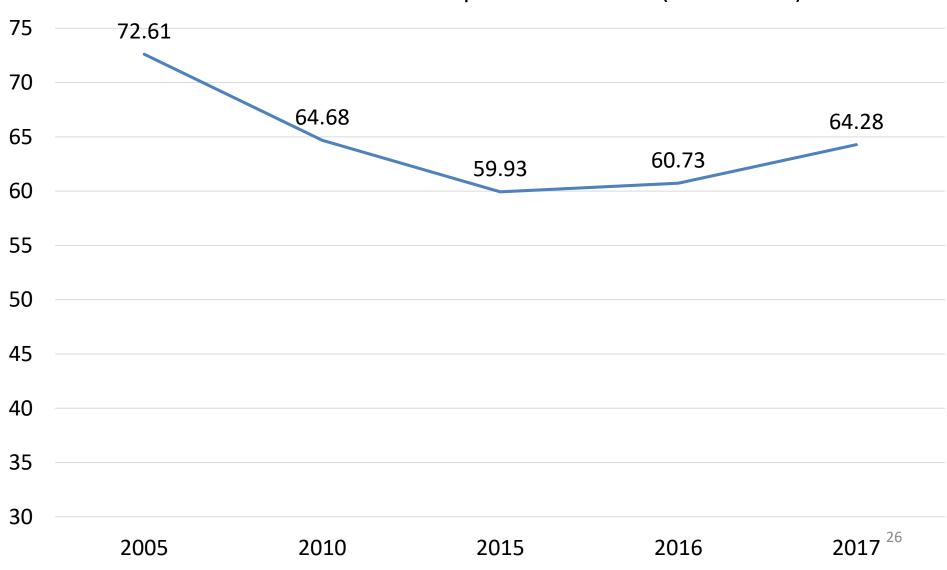
Commercial Sector

Commercial Emissions by Fuel Type (% of Total)



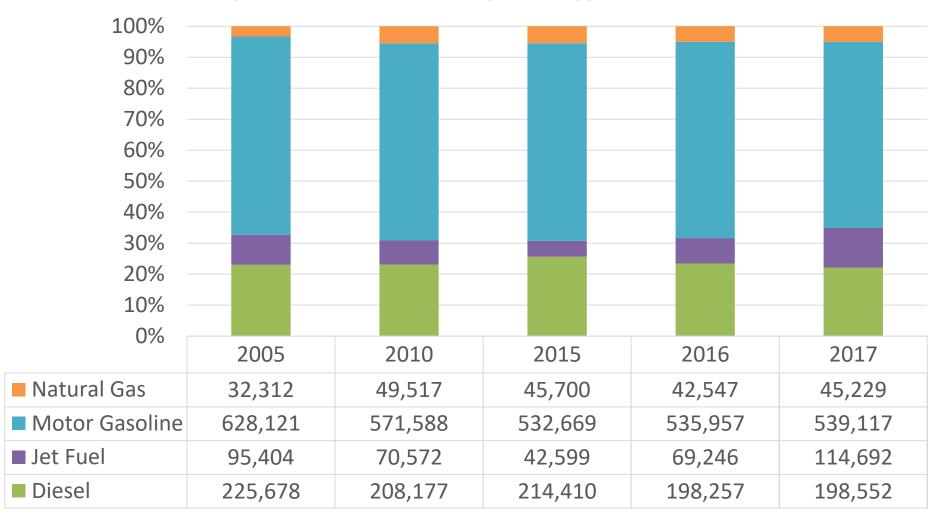
Transportation Sector

GHG Emissions from Transportation Sector (MMTCO2e)



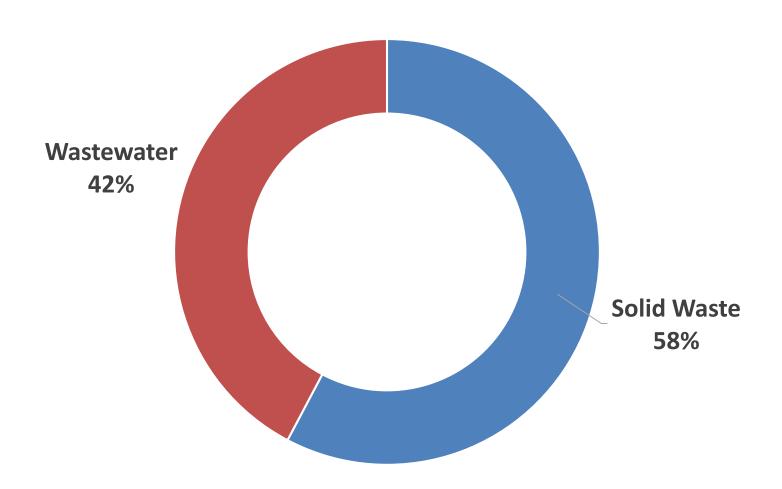
Transportation Sector

Transportation Emissions by Fuel Type (% of Total)



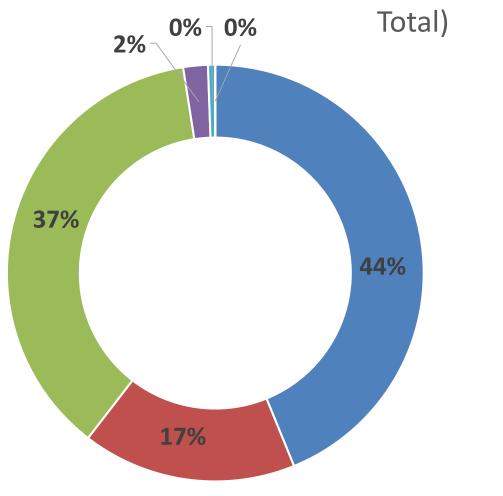
Waste Management Sector

GHG Emissions from Waste Management Sector (MMTCO2e)



Agriculture Sector

GHG Emissions from Agricultural Sector by Source (% of



- Enteric Fermentation
- Manure Management
- Agricultural SoilManagement
- Liming of Soils
- Urea Fertilization
- Burning of AgriculturalCrop Waste









Energy Programs Office

Thank you!

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DEP Climate Change Website: www.dep.pa.gov\climate

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