

## *U.S. EPA Greenhouse Gas Reporting Program 2020 Data Overview*

U.S. Environmental Protection Agency  
Greenhouse Gas Reporting Program

NACAA  
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# Outline

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- GHGRP Overview
- Options for viewing GreenHouse Gas Reporting Program (GHGRP) data
- Note on state-level data aggregation for some sectors
- Facility Level Information on GreenHouse gases Tool (FLIGHT) overview and demo
- EPA Envirofacts
  - Greenhouse gas (GHG) search
  - GHG customized search
- Interactive state/tribal fact sheets
- New Demographic Data features
- Help Resources

# Overview of EPA Greenhouse Gas Reporting Program (GHGRP)

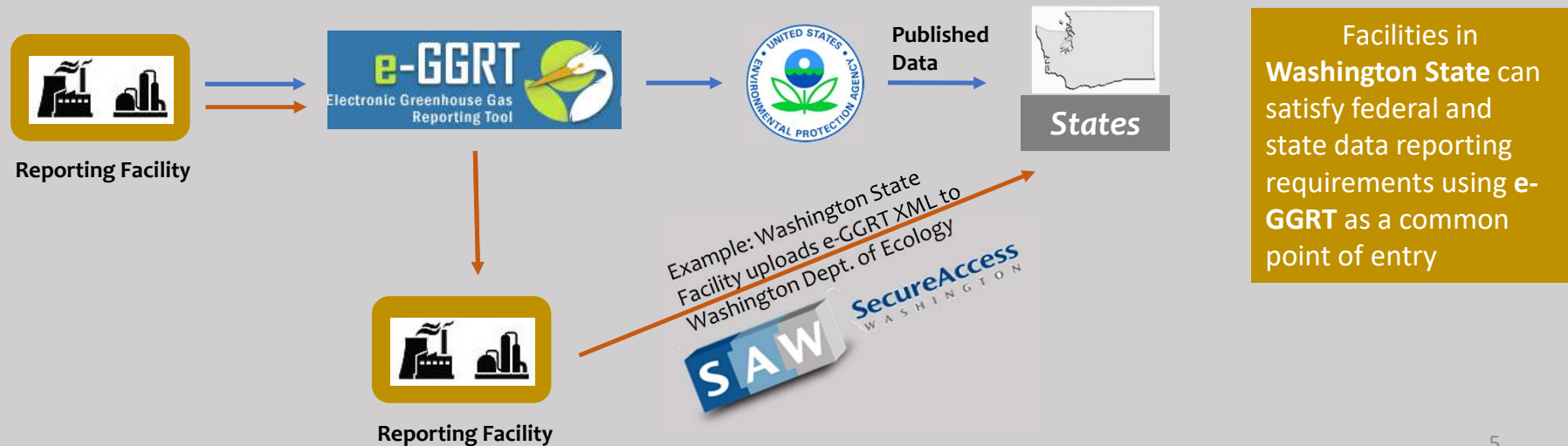
- Launched in response to Fiscal Year 2008 Consolidated Appropriations Act under Clean Air Act authority
- Most source categories began collecting data in 2010; an additional 12 source categories began collecting data in 2011
  - We have published 11 years of data for 29 source categories and 10 years of data for 12 source categories
- Generally 25,000 metric ton CO<sub>2</sub>e reporting threshold (~ emissions from 4,600 vehicles)
- Annual reporting of GHGs by ~8,000 facilities across 41 source categories
- Methodologies specific to source categories / industries
- Direct reporting to EPA electronically via EPA electronic GHG Reporting Tool (e-GGRT)
- Verification by EPA
- Regulations codified at 40 CFR Part 98
- Data is reported by March 31, and published in early October

# Source Categories Covered by GHGRP

Power	Refining & Petrochem	Other Chemicals	Combustion	Waste	Metals	Minerals	Pulp & Paper	High GWP Gases
<ul style="list-style-type: none"> <li>- Electricity Generation*</li> <li>- Electrical Equipment Mfg.</li> <li>- Electrical Equipment Use</li> </ul>	<ul style="list-style-type: none"> <li>- Petroleum Refineries*</li> <li>- Petrochem. Production*</li> </ul>	<ul style="list-style-type: none"> <li>- Adipic Acid*</li> <li>- Ammonia *</li> <li>- Hydrogen Production</li> <li>- Nitric Acid*</li> <li>- Phosphoric Acid*</li> <li>- Titanium Dioxide*</li> </ul>	<ul style="list-style-type: none"> <li>- Stationary Combustion</li> </ul>	<ul style="list-style-type: none"> <li>- Industrial Waste Landfills</li> <li>- Industrial Wastewater Treatment</li> <li>- Municipal Solid Waste Landfills</li> </ul>	<ul style="list-style-type: none"> <li>- Aluminum*</li> <li>- Ferroalloy</li> <li>- Iron &amp; Steel</li> <li>- Lead</li> <li>- Magnesium</li> <li>- Silicon Carbide*</li> <li>- Zinc</li> </ul>	<ul style="list-style-type: none"> <li>- Cement*</li> <li>- Glass</li> <li>- Lime*</li> <li>- Misc. Carbonate Use</li> <li>- Soda Ash*</li> </ul>	<ul style="list-style-type: none"> <li>- Pulp &amp; Paper</li> </ul>	<ul style="list-style-type: none"> <li>- Electronics Mfg.</li> <li>- Fluorinated GHG Production</li> <li>- HCFC-22 Prod./HFC-23 Destruction*</li> <li>- Pre-Charged Equipment Import/Export</li> <li>- Industrial Gas Suppliers</li> </ul>
Oil & Gas			Fuel Suppliers			Carbon Capture & Sequestration		Mining
<ul style="list-style-type: none"> <li>- Petroleum and Natural Gas Systems</li> </ul> <p><b>*No reporting threshold - "All-In" sources</b></p>			<ul style="list-style-type: none"> <li>- Coal-Based Liquid Fuels Suppliers</li> <li>- Natural Gas and Natural Gas Liquids Suppliers</li> <li>- Petroleum Product Suppliers</li> </ul>			<ul style="list-style-type: none"> <li>- Geologic Sequestration of CO<sub>2</sub></li> <li>- Injection of CO<sub>2</sub></li> <li>- CO<sub>2</sub> Suppliers</li> </ul>		<ul style="list-style-type: none"> <li>- Underground Coal Mines</li> </ul> <p>Direct Emitters Suppliers CO<sub>2</sub> Injection</p>

# Supporting State GHG Data Needs

- GHGRP data are used by States to satisfy and/or supplement regulatory and voluntary programs
  - Use GHGRP data directly (e.g. WA, IA)
  - Use GHGRP data to verify state-collected data (e.g. OR, MN)
- GHGRP worked closely with CARB when Cal e-GGRT was developed
- GHGRP has helped reduce duplicate reporting burden, where possible



## EPA's GHGRP Data Highlights

Best for: Data at a glance



The screenshot shows the EPA website's 'Greenhouse Gas Reporting Program (GHGRP)' page. The main heading is 'GHGRP Reported Data'. Below this, there is a summary of data for reporting year (RY) 2017, stating that over 8,000 facilities and suppliers reported to the program. A sidebar on the left lists various industry sectors like Power Plants, Refineries, and Chemicals. There are also buttons for 'OVERVIEW PROFILE' and 'INDUSTRY PROFILES'.

## FLIGHT

Best for: Exploring data



## EPA's Envirofacts

Best for: Querying and downloading data



The screenshot shows the EPA's Envirofacts website. The main heading is 'Envirofacts' with the tagline 'Your one-stop source for Environmental Information'. Below this, there is a search bar and a grid of topic search buttons including Air, Waste, Facility, Land, Toxics, Compliance, Water, Radiation, and Other. The page also includes navigation links for 'How to Use Envirofacts', 'News and Information', 'Data Update', and 'Envirofacts Model'.

Data Highlights Link:

[www.epa.gov/ghgreporting/ghgrp-reported-data](http://www.epa.gov/ghgreporting/ghgrp-reported-data)

FLIGHT Link:

<https://ghgdata.epa.gov/ghgp/main.do>

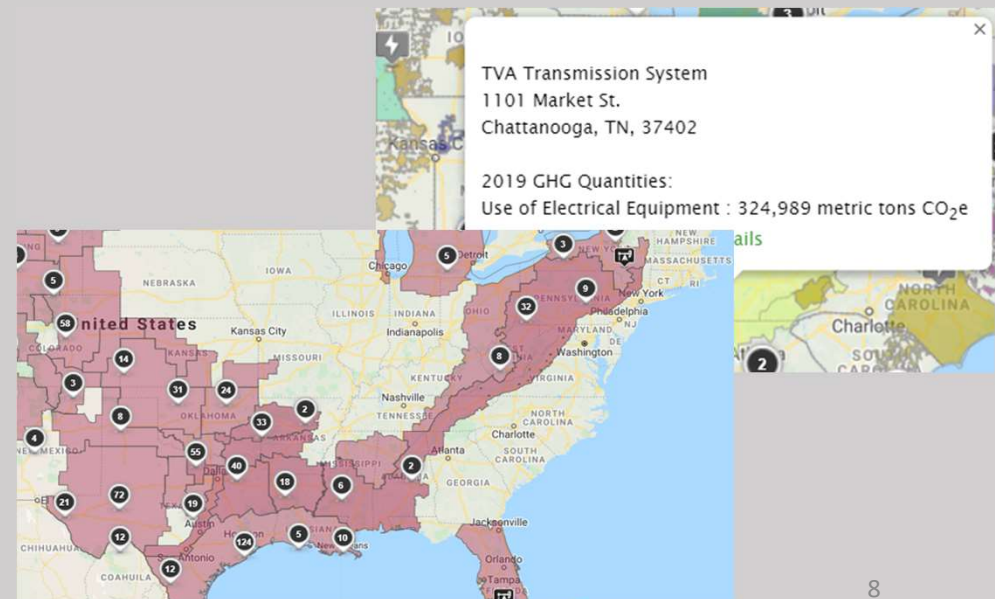
Envirofacts GHG Link:

[www3.epa.gov/enviro/facts/ghg/search.html](http://www3.epa.gov/enviro/facts/ghg/search.html)



# Note on Non-Geolocated Data

- The following direct emitter sources report data that cannot be disaggregated to individual locations or states. Their data uses a corporate or other address that may not match where the emissions come from:
  - Onshore oil and gas production
  - Onshore gathering and boosting
  - Use of electrical equipment
- This Effects
  - State Aggregations in FLIGHT
  - State & Tribal Fact Sheets
  - Demographic Data Highlights





# Live Demonstration of GHGRP Data Tools and Resources

# For Help

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- GHGRP Help

<https://ccdsupport.com/confluence/>

<https://ccdsupport.com/confluence/display/ghgp/Home>

- Contact us:

Email to [ghgreporting@epa.gov](mailto:ghgreporting@epa.gov) or use web-form:

<https://ccdsupport.com/confluence/display/ghgp/Contact+Us>

# Links

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- FLIGHT  
<https://ghgdata.epa.gov/ghgp/main.do>
- GHGRP Reported Data  
[www.epa.gov/ghgreporting/ghgrp-reported-data](http://www.epa.gov/ghgreporting/ghgrp-reported-data)
- GHGRP Data Sets  
[www.epa.gov/ghgreporting/ghg-reporting-program-data-sets](http://www.epa.gov/ghgreporting/ghg-reporting-program-data-sets)
- Envirofacts Database  
[www3.epa.gov/enviro/facts/ghg/search.html](http://www3.epa.gov/enviro/facts/ghg/search.html)
- Greenhouse Gas Customized Search  
[www.epa.gov/enviro/greenhouse-gas-customized-search](http://www.epa.gov/enviro/greenhouse-gas-customized-search)
- Greenhouse Gas Model  
[www.epa.gov/enviro/greenhouse-gas-model](http://www.epa.gov/enviro/greenhouse-gas-model)
- GHGRP Help  
<https://ccdsupport.com/confluence/>
- GHGRP State Fact Sheet  
[www.epa.gov/ghgreporting/ghgrp-state-fact-sheet](http://www.epa.gov/ghgreporting/ghgrp-state-fact-sheet)
- Find and Use GHGRP Data:  
[www.epa.gov/ghgreporting/find-and-use-ghgrp-data](http://www.epa.gov/ghgreporting/find-and-use-ghgrp-data)
- Demographic Data Highlights:  
<https://edap.epa.gov/public/extensions/GHGRP-Demographic-Data-Highlights/GHGRP-Demographic-Data-Highlights.html>