

# GHG Rules & Statewide GHG Emission Inventories

Clean Air Branch

August 28, 2017

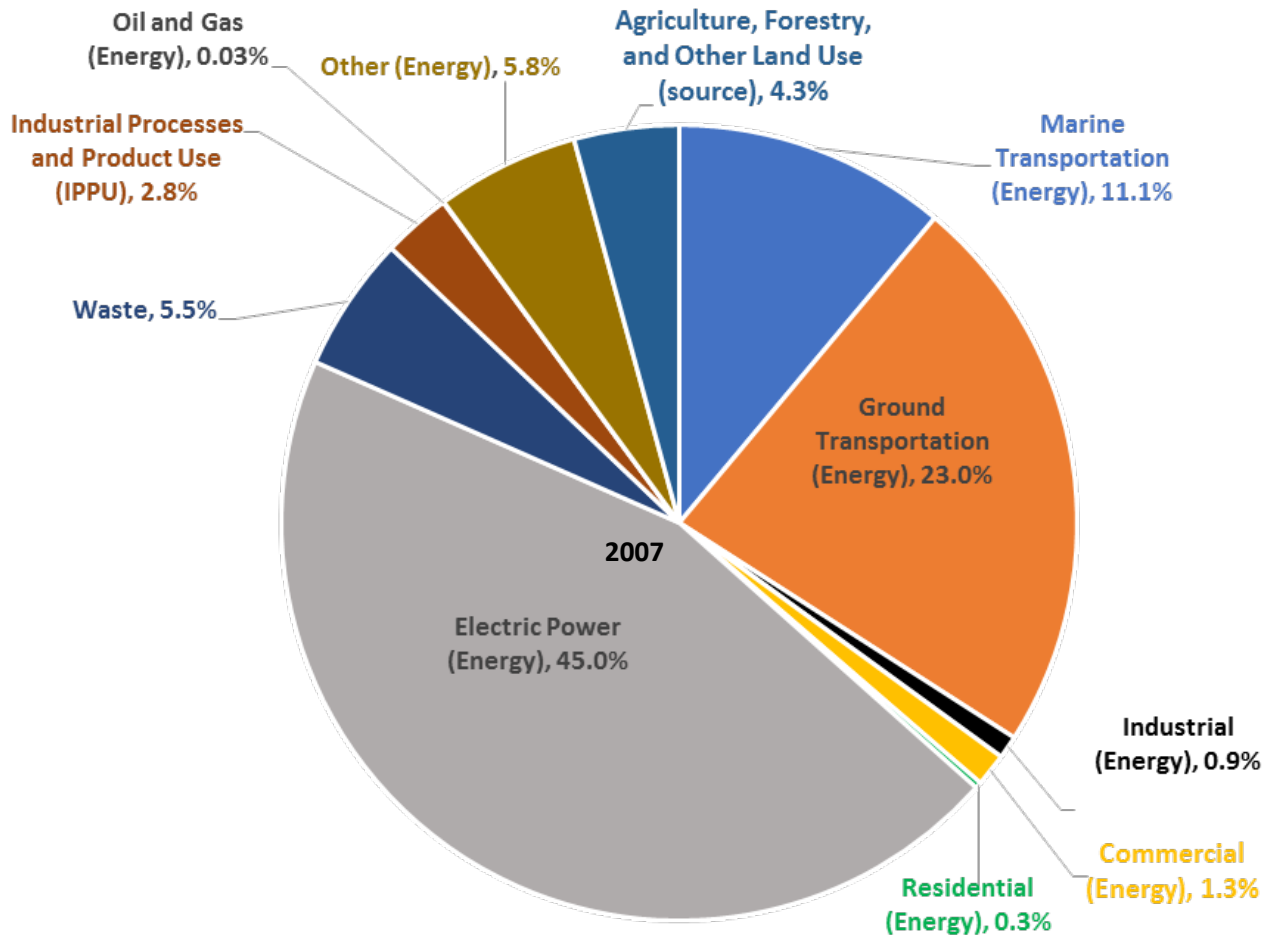


*Healthy Communities, Healthy Islands, Healthy People*



# Introduction

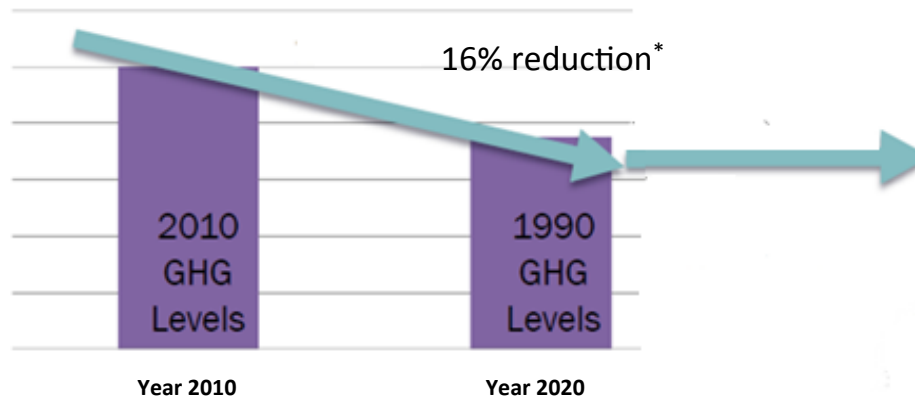
- The GHG Rules are required by Hawaii Act 234, 2007.
- Sets statewide greenhouse gas emissions limit to equal or below 1990 levels by 2020 (13.66 million metric tons per year of CO<sub>2</sub>e, excluding aviation and international bunker fuel emissions and includes carbon sinks).
- Prior 2007 Statewide GHG Emissions Inventory from ICF.



# GHG Emissions CAP

- To help meet goal – GHG emission cap specified for stationary sources.
- Potential CO<sub>2</sub>e emissions threshold of 100,000 tons/year.
- Cap is set at 16% below facility's baseline emission level unless alternate cap is approved if 16% reduction cannot be achieved.
- Use 2010 or as baseline or alternate approved baseline emission level for establishing the cap.

## Statewide Stationary Source GHG Emission Levels



\* 13.2% + Factor of Safety = 16% Reduction



# Stationary Sources

## Hawaii Administrative Rules, Chapter 11-60.1 Subchapter 11



	Threshold
Requires reductions from Hawaii's largest "existing" emitters (18)	$\geq 100,000$ CO <sub>2</sub> e tons/year (biogenic and non-biogenic emissions)

*Affects mainly electric power producers, refineries, and large commercial operations*

*Excludes municipal waste combustion operations  
Excludes municipal solid waste landfills with controls*

*Represents about 88% of Hawaii's stationary source GHG emissions*



# GHG Rules

## HAR 11-60.1-204(k)

- DOH must conduct annual evaluations to determine progress in achieving the statewide GHG emissions limit.
- If DOH determines that the statewide GHG emissions limit is met before 2020, the GHG cap is no longer applicable to the affected facilities.



# Statewide GHG Inventories

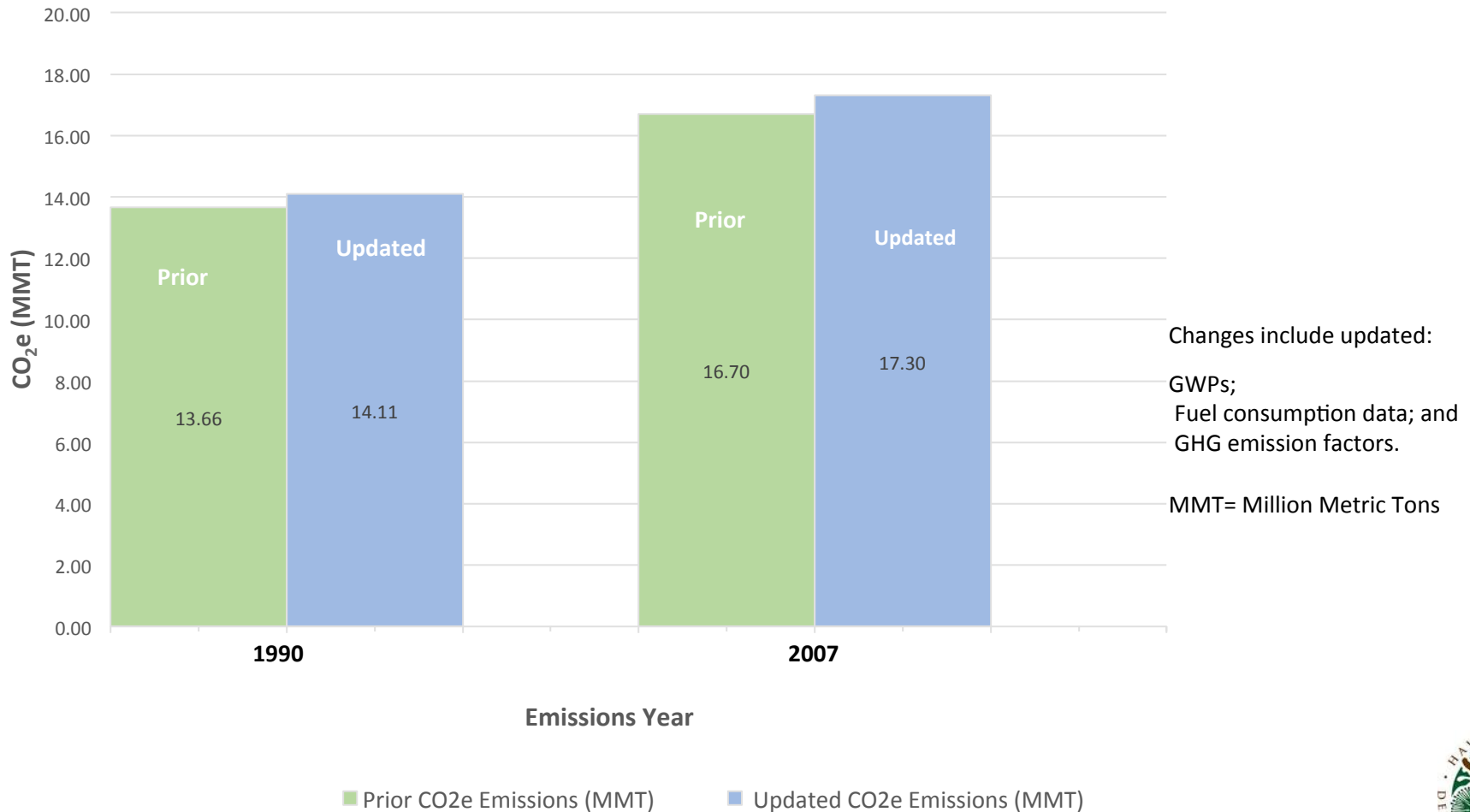
## ICF Incorporated, L.L.C

- Provide three annual reports with:
  - 1) Updated Statewide GHG emissions for prior inventories (1990, 2007, & 2010);
  - 2) Compile new 2015, 2016, and 2017 statewide GHG inventories; and
  - 3) GHG Projections for 2020 and 2025.
- Evaluate EPA State Inventory and Projection Tool.



# Update Prior GHG Inventories

Prior and Updated Statewide GHG Inventories (1990 & 2007)  
(Excluding Aviation and International Bunker Fuel Emissions and Including Carbon Sinks)



# Status

- Received GHG Emission Reduction Plans from 18 Affected Facilities.

## Where's Program Now?

- DBEDT, DOT, and DOH are providing data to ICF for compiling statewide GHG emission inventories.
- Initial annual report from ICF is expected early in 2018 that will include:
  - 1) New 2015 Statewide GHG Inventory;
  - 2) Updated 1990, 2007, and 2010 GHG Inventories; and
  - 3) Statewide GHG projections for 2020 and 2025.
- Annual report will be reviewed by DOH and other state agencies prior to finalizing.





# Conclusions

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- Statewide GHG emission inventories will be used to track progress in achieving Statewide GHG Reduction Goals.
- Electric Power and Transportation Sectors are a large part of the Statewide GHG emissions.

## Thank You

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