

Clean Air Branch



*Healthy Communities, Healthy Islands, Healthy People*

# GHG Rules & Statewide GHG Emission Inventories

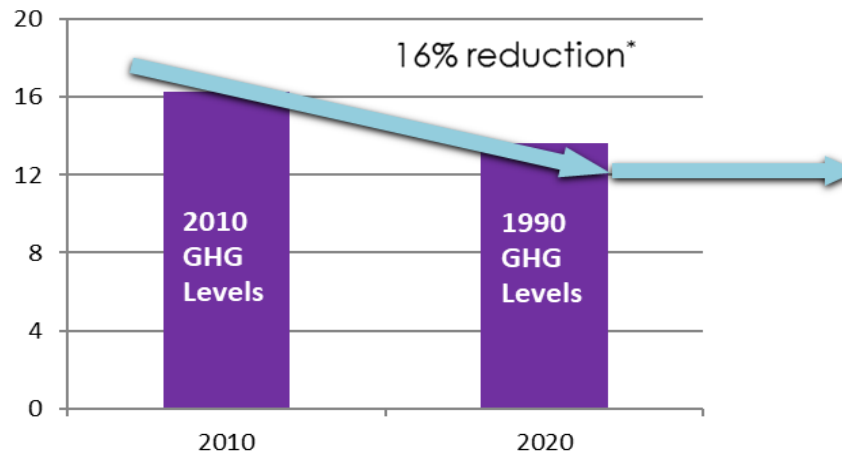
**April 10, 2019**

**Greenhouse Gas Offset Symposium**

# Introduction

- Hawaii Act 234, 2007 – GHG Rules.
- GHG Rules set a statewide greenhouse gas emissions limit to equal or below 1990 levels by 2020 (CO<sub>2</sub>e emission limit excludes aviation and international bunker fuel emissions and includes carbon sinks).
- To help meet goal - GHG emission cap is specified for large stationary sources as backstop to State Energy Office – Renewable Portfolio Standards (RPS) and Energy Efficiency Portfolio Standards (EEPS).
- Potential CO<sub>2</sub>e threshold of 100,000 tons per year.

**Statewide Stationary Source GHG Emission Levels**

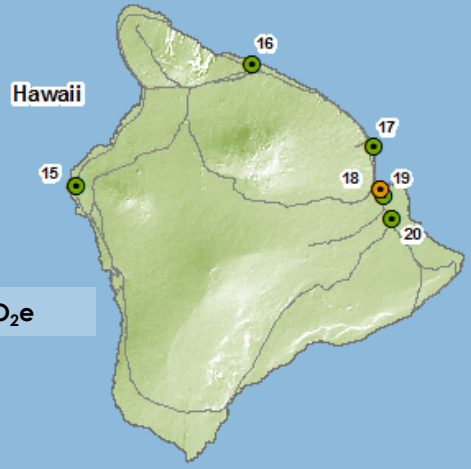
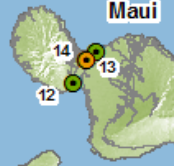
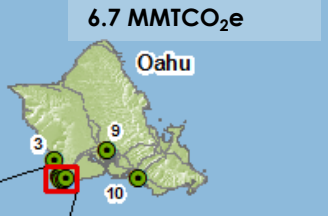
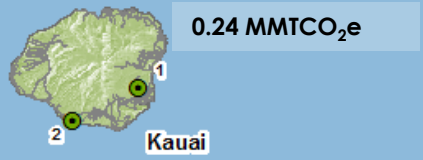


\* 13.2% + Factor of Safety = 16% Reduction

## State Greenhouse Gas (GHG) Rule Affected Facilities

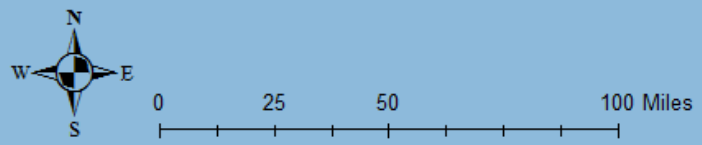
### 2015 GHG Emissions

Station	Greenhouse Gas Facilities
1	Port Allen Generating Station
2	Kapaia Power Station
3	Kahe Generating Station
4	IES Downstream Refinery
5	Campbell Industrial Park Generating Station
6	AES Hawaii
7	Kalaeloa Generating Plant
8	Par Hawaii Refinery
9	Waiau Generating Station
10	Honolulu Generating Station
11	Palaa Generating Station
12	Maalaea Generating Station
13	Kahului Generating Station
14	HC&S Puunene Sugar Mill
15	Keahole Generating Station
16	Hamakua Energy Plant
17	Hu Honua Bioenergy Plant
18	Shipman Generating Station
19	Kanolehua-Hill Generating Station
20	Puna Generating Station



**Legend**

- Facilities Subject to GHG Emissions Cap that Permanently Shut Down
- Facilities Subject to GHG Emissions Cap
- Roads



# HAR 11-60.1-204(k)

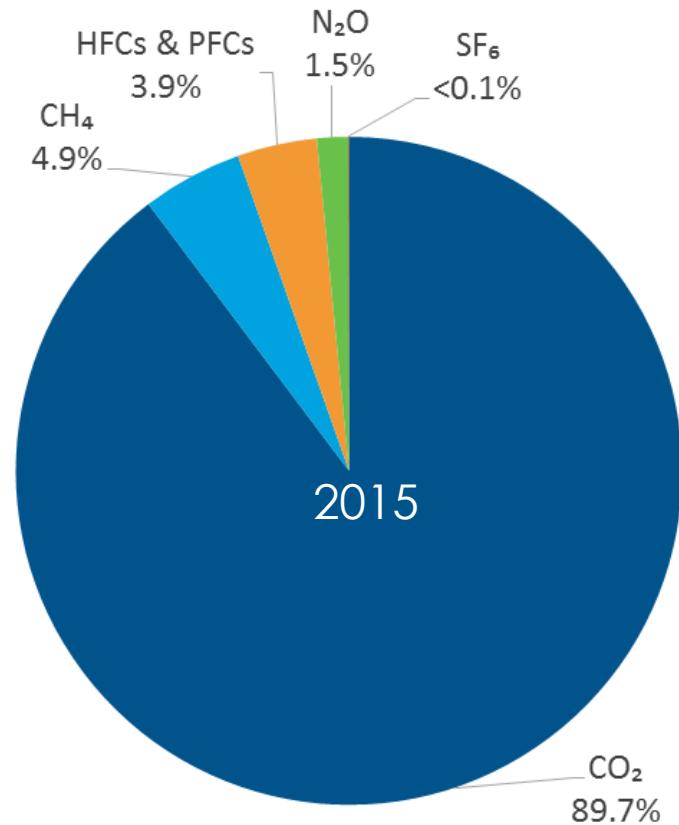
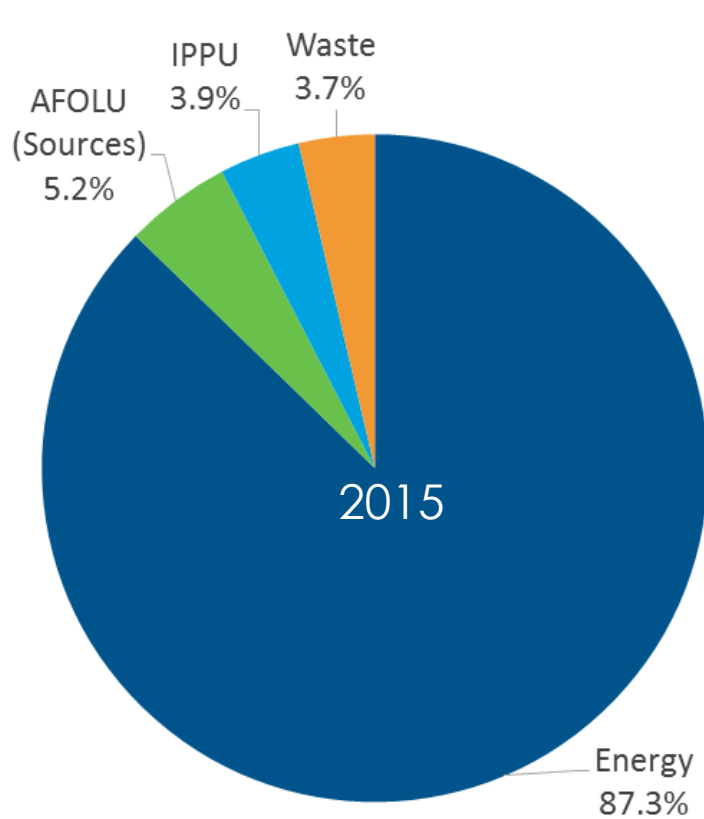
- DOH must conduct annual evaluations to determine progress in achieving the statewide GHG emissions limit.
- Contracted ICF to provide three annual reports.
- First 2015 annual report was recently released and is posted on the Clean Air Branch website.

<http://health.hawaii.gov/cab/>



# 2015 Annual Report

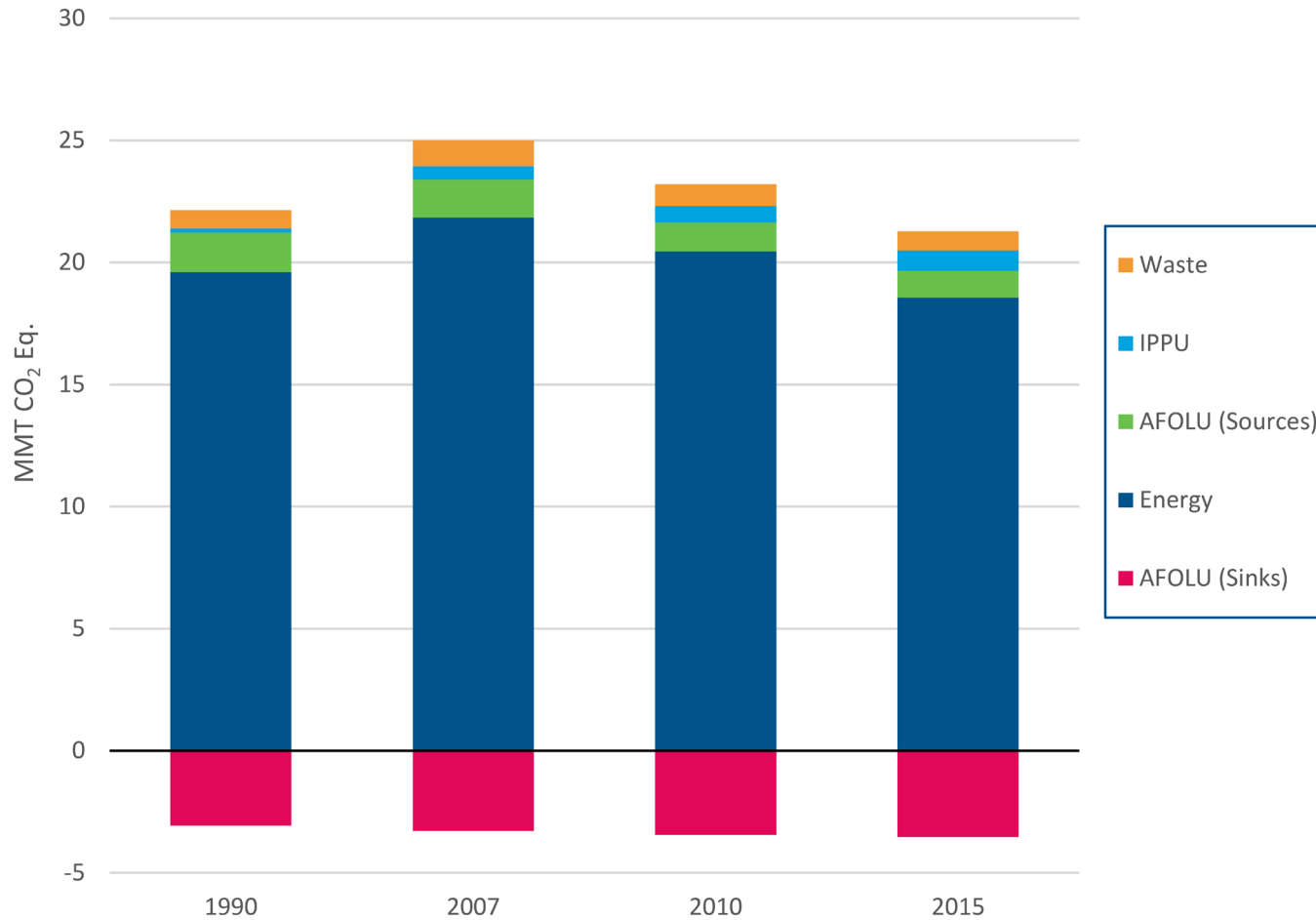
- Distribution of 2015 statewide GHG emissions.



21.28 MMT Statewide CO<sub>2</sub>e Emissions , Excluding Emissions from Sinks & International Bunker Fuel

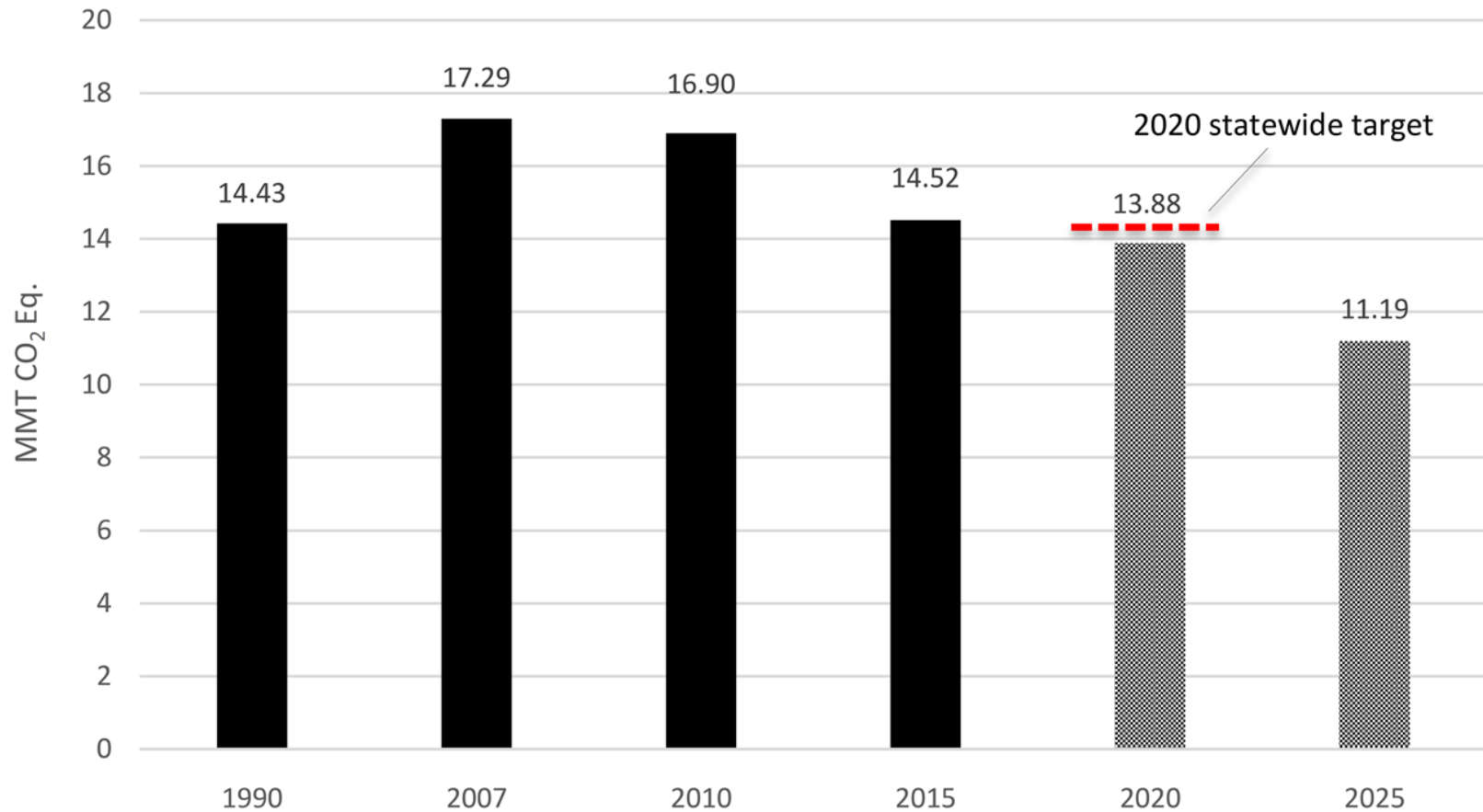
# 2015 Annual Report

- Statewide GHG emission trends.



# 2015 Annual Report

- Statewide GHG emission projections.



# Thank You

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