

CARE Committee

From: Alexander DeRoode <Alexander.DeRoode@co.maui.hi.us>
Sent: Wednesday, November 17, 2021 7:45 AM
To: CARE Committee
Subject: Presentation for CARE Committee CARE-4
Attachments: Maui County_Emissions_Inventories.pdf

Please see attached for presentation for today's CARE Committee (CARE-4).

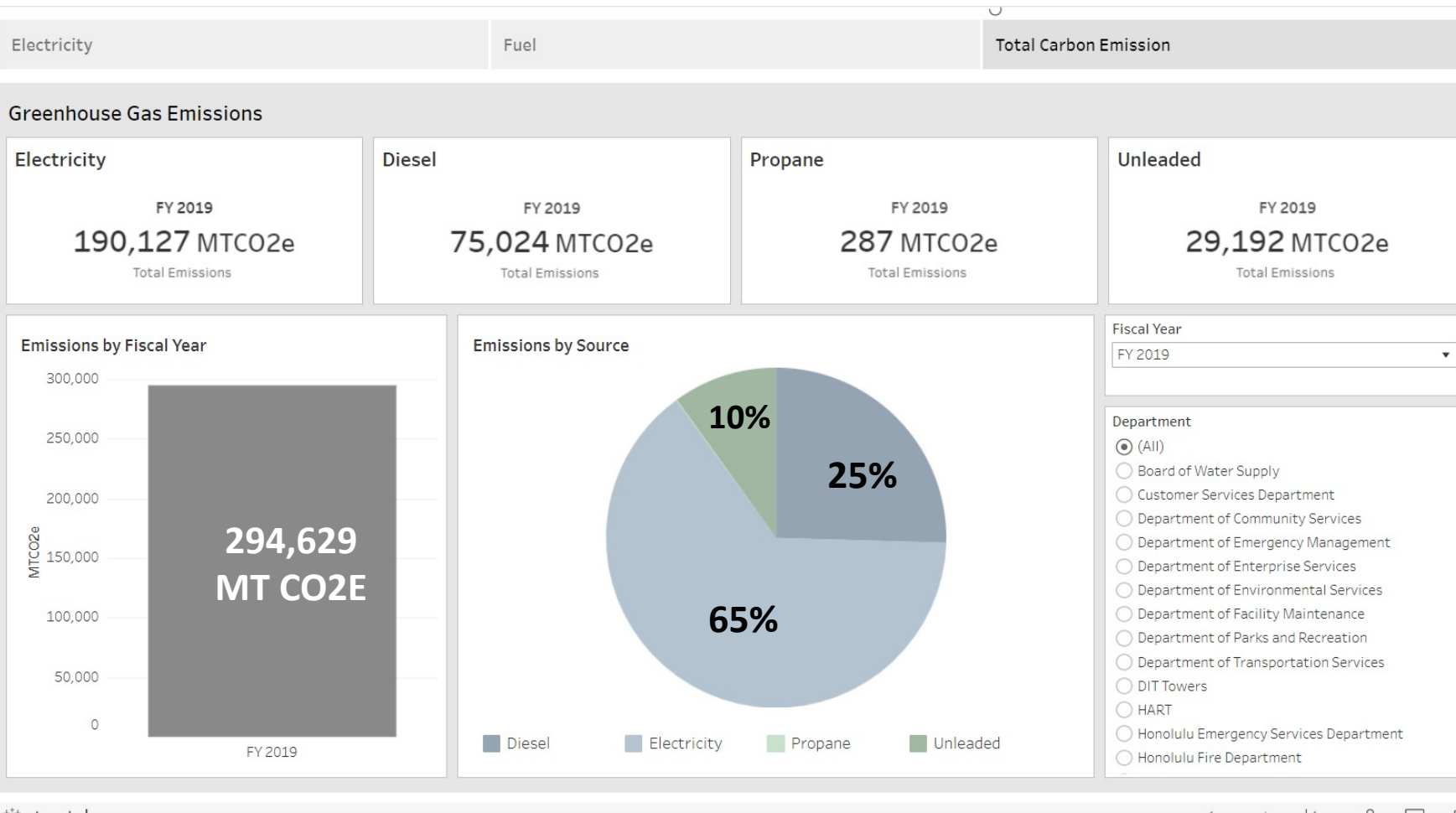
mahalo,

Alex

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*Alex de Roode, M.S., C.E.M., LEED AP
Energy Commissioner
Office of Climate Change, Resilience, and Sustainability (CCRS)
County of Maui
Tel. (808) 270-7203*

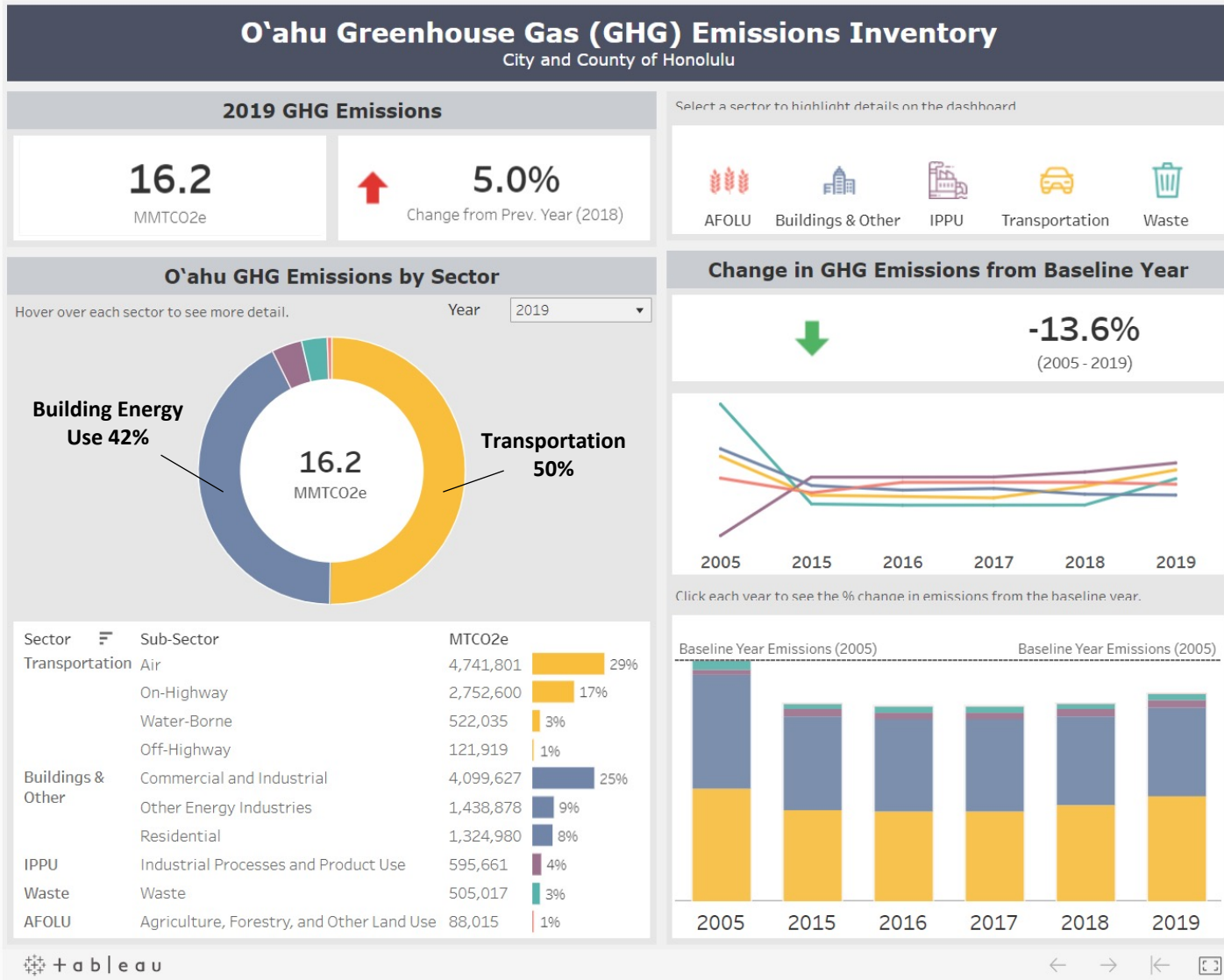
Emissions from Municipal Operations



- Example is a dashboard of City/County of Honolulu (FY2019).
- Maui County will likely have a similar breakdown of emissions by source.
- Building energy use is typically the largest emissions sector, followed by vehicle fuel use.
- CCRS is currently collecting and performing quality assurance of data.

Example emissions profile from City and County of Honolulu, HI

Community Greenhouse Gas Emissions



- Example is a dashboard of City/County of Honolulu (2019).
- Maui County will likely have a similar breakdown of emissions by source.
- Transportation will likely be a large source due to the amount of tourism taking place.
- Building energy use is also one of the highest-emitting sectors.
- CCRS is currently collecting and performing quality assurance of data.

Land Cover Carbon Stock Analysis

- **Carbon stock** is the quantity of carbon stored in the plants and soil on Maui lands.
- We will analyze the carbon stock from each of the four “pools” in an eco-system:
 - **Aboveground biomass** includes all living biomass above the soil including stems, stumps, branches, bark, seeds, and foliage.
 - **Root live biomass** includes all living biomass of live plant roots.
 - **Litter and downed woody debris** include carbon stored in surface litter and downed woody debris.
 - **Soil organic carbon** includes the organic carbon in mineral and organic soils.

Most likely, most of the carbon will be stored in the soil.

- We will also analyze the carbon stock from **nine broad land cover types** including native dry forest, invaded dry forest, native mesic-wet forest, invaded mesic-wet forest, alien tree plantations, shrublands, grasslands, and bare/sparse ground.
- Analysis will be based on an average carbon stock value (metric ton C/acre) applied to each land cover type and pool to understand the total carbon stock in Maui.

Most likely, most of the carbon will be stored in alien tree plantations and forests.

