



# GREENHOUSE GAS INVENTORY FACT SHEET FY 2018-19

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

## What is a Greenhouse Gas Inventory?

An accounting of emissions of greenhouse gases (GHG) into the atmosphere that were caused by institutional operations. Greenhouse gases include:

- water vapor
- carbon dioxide (CO<sub>2</sub>)
- ozone (O<sub>3</sub>)
- methane (CH<sub>4</sub>)
- nitrous oxide (N<sub>2</sub>O)
- perflourinated carbons (PFCs)
- halogenated fluorocarbons (HCFCs)
- hydroflourocarbons (HFCs)

## What are CSUCI's Climate Action Commitments?

### Carbon Commitment



Adopt a Climate Action Plan



Achieve carbon neutrality by 2050

### CSU Sustainability Policy



Reduce emissions to 80% below 1990 levels by 2040

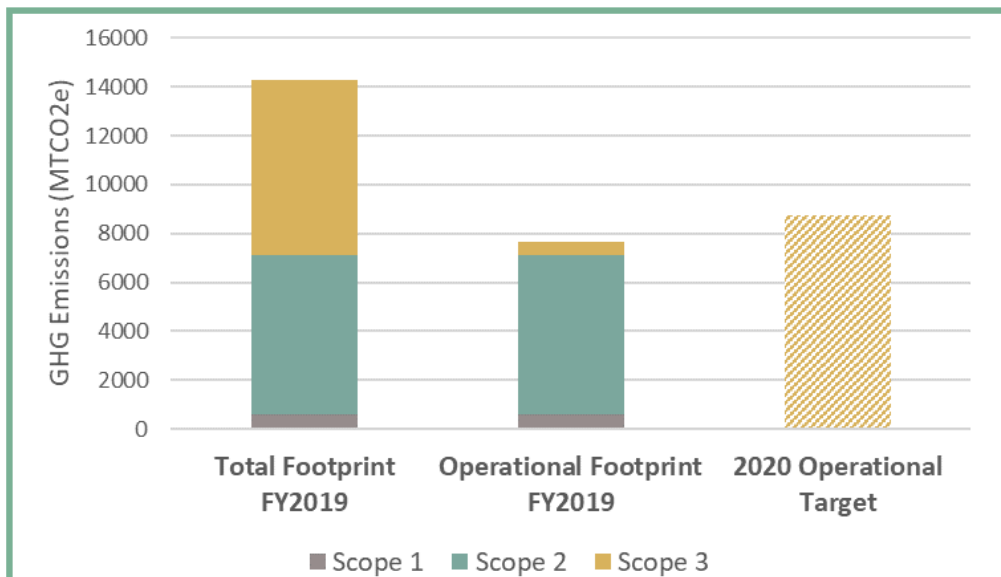


Reduce energy usage by 25% per FTES

## CSUCI Carbon Footprint in 2019 Compared to 2020 Target



**We reached our goal!**



### How can CI continue to improve?

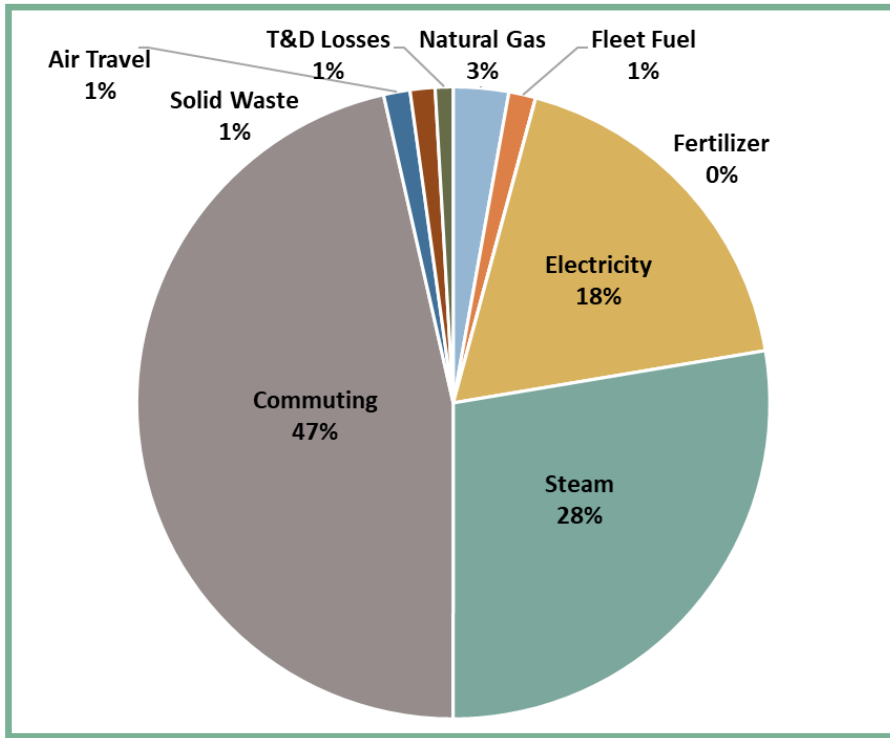
- reduce single occupancy vehicle trips to campus
- decrease energy usage per capita
- increase onsite renewable energy generation



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## Carbon Footprint by Emission Source



**49%** GHG from building energy usage

**47%** GHG from Commuting

### What is included?

#### Operational Emissions

- Fleet fuel
- Energy usage
- Waste disposal
- Fertilizer usage
- Transportation & distribution losses

#### Communal Emissions

- Commuting

## Current Actions to Reduce Impact

- Continuously upgrading existing lighting to more efficient LED lights
- Optimizing building temperature settings to balance energy conservation with occupant comfort
- Recently expanded parking for carpoolers

## Upcoming Projects to Reduce Impact

- Installing solar panels that will provide 67% of the university's electricity (coming soon!)
- Shifting away from steam to electricity and natural gas
- Refining heating and cooling settings to reduce building energy use

CSUCI reports annually as part of the President's Carbon Commitment