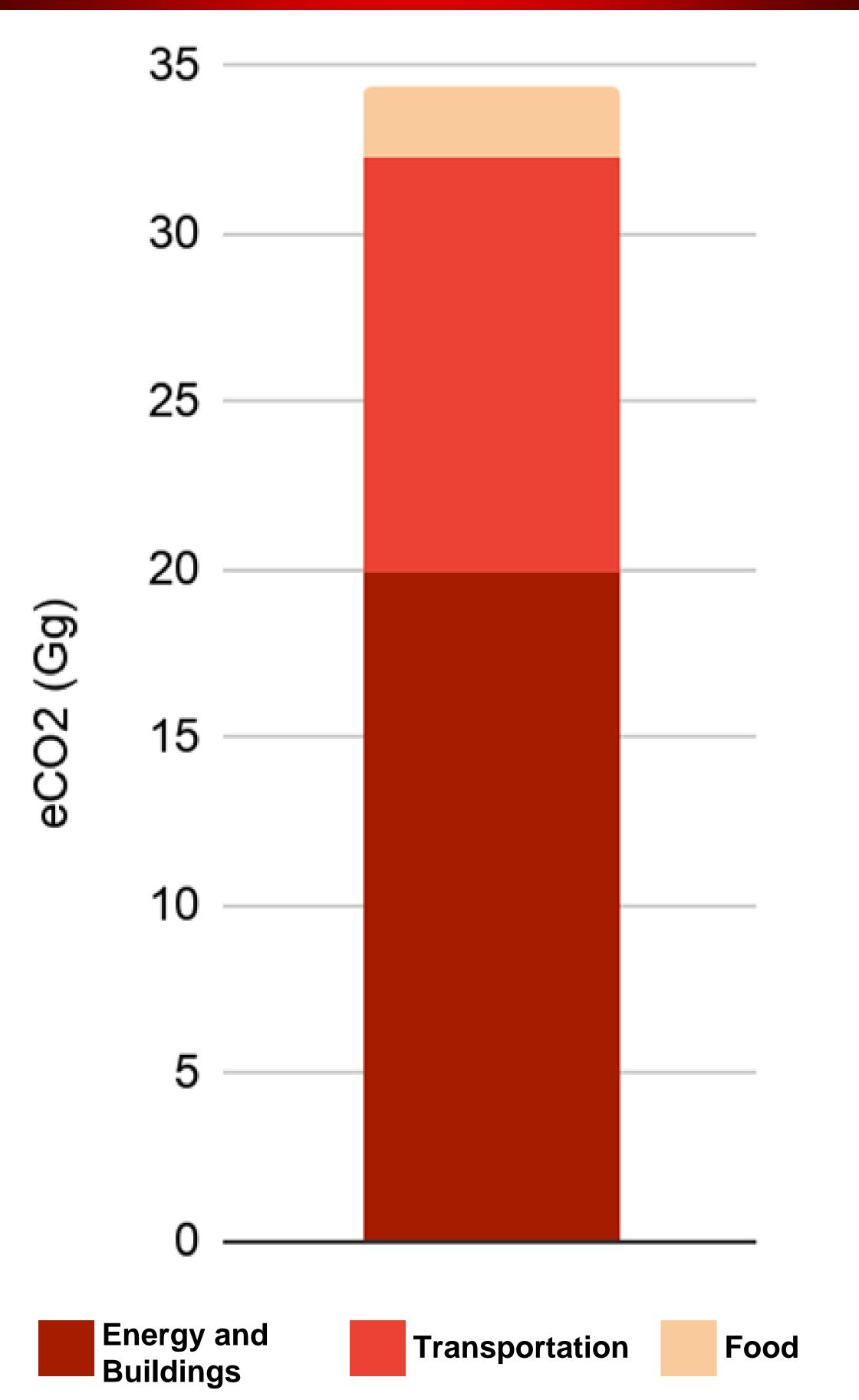
# Establishing A Greenhouse Gas Emissions Baseline at Rutgers University-New Brunswick



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### Fiscal Year 2019 CO, Emissions



#### What We Have

- Food: all edibles purchased by Dining Services Food Buyer
- 18 unique food categories
- Total carbon emissions required to produce, transport, prepare, consume, and compost food

# Transportation emissions from:

- o Rutgers owned vehicles
- Financed outsourced travel
- o Study abroad travel
- Commuting

# categories o Co-Gen Steam

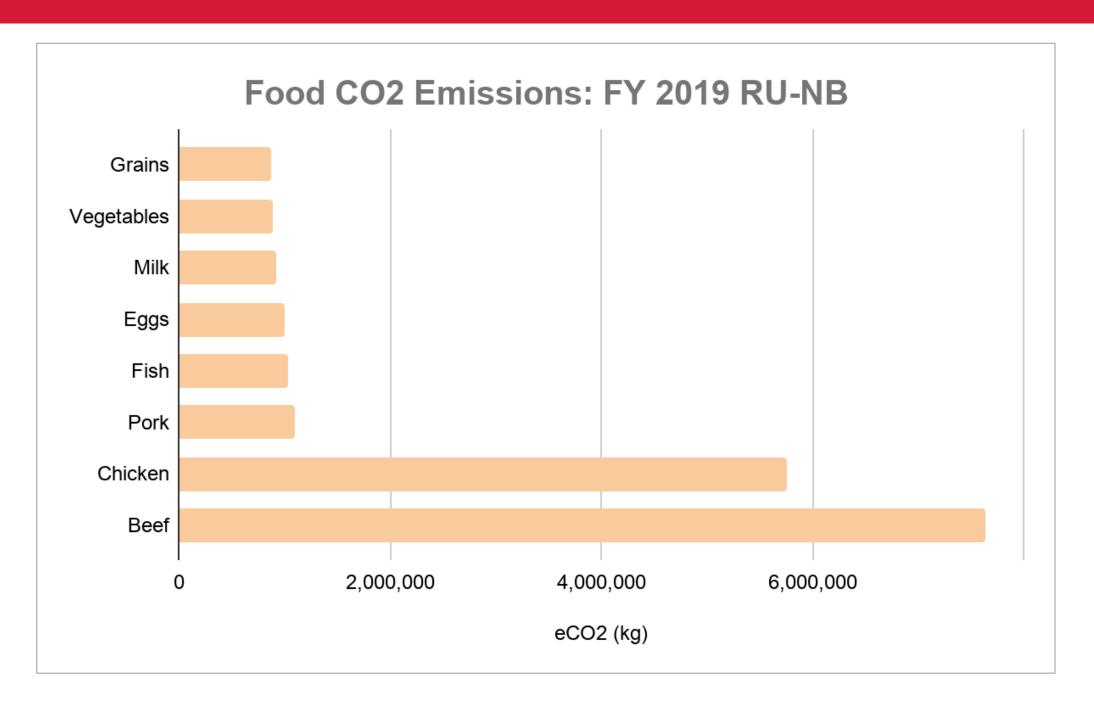
and Buildings

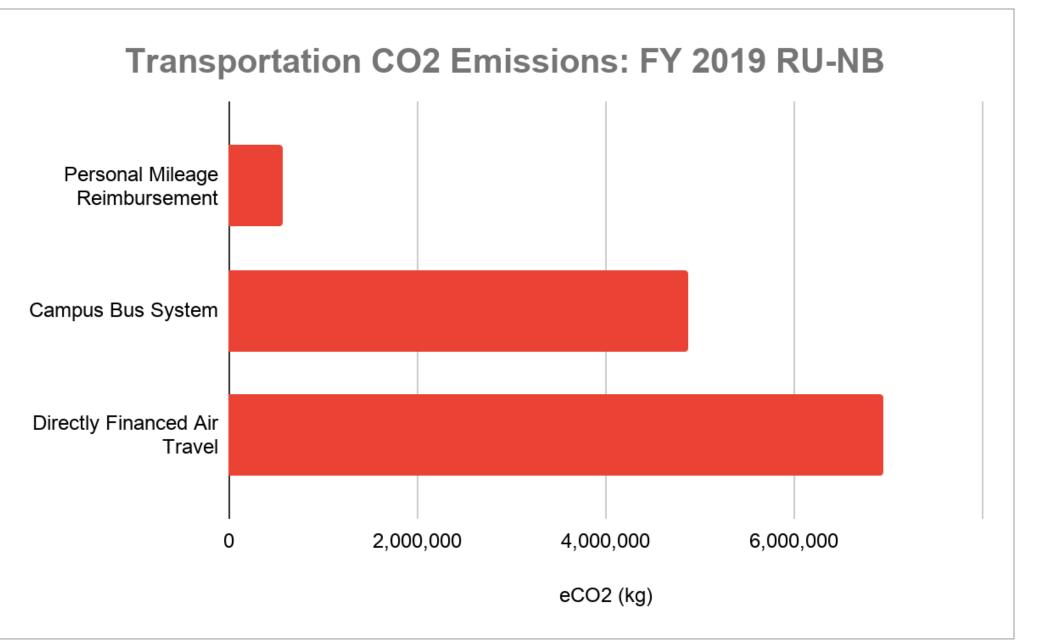
Energy

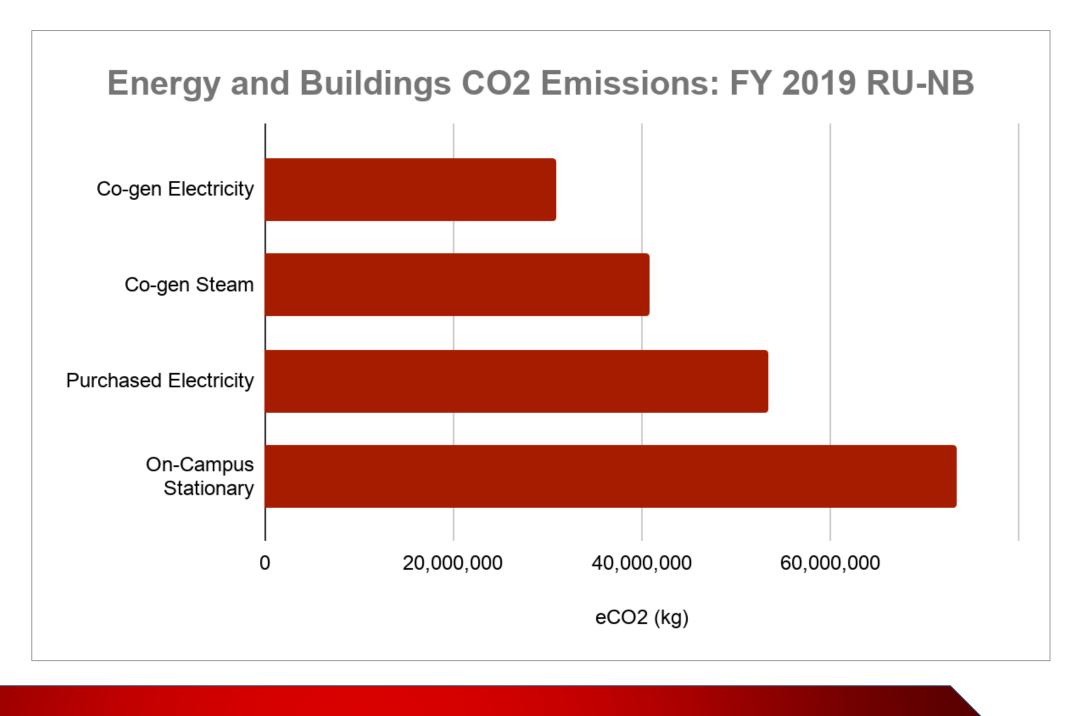
- Aggregate emissions from all assets and buildings in three
- o Go-Gen Electricity
- o Other Off-Campus Stationary

#### What We Need

- Incomplete data: local/organic
- No data: other campuses
- No data: some food categories
- No data: non-Rutgers affiliated catering
- No data: food waste
- Data inconsistencies (i.e. units of pounds vs. dollars)
- Incomplete data: outsourced travel
- Incomplete data: Rutgers owned vehicles, only buses included
- No data: study abroad travel
- No data: commuting data
- Incomplete data: natural gas purchases
- No data: building-specific energy consumption and efficiency
- No data: chilled and heated water flow rates







#### **Current Data Collection**

- Systematically change data collection methods
- o Defining or placing heavier emphasis on categories such as organic/local
- Collect data that is not already documented
- o Auditing for building-specific energy efficiency
- o Commuting information for faculty and students

# Changes

- Prioritize building audits with cost/benefit analysis
- Prioritize buying from food vendors that document carbon emission-related data
- Collect data from faculty and students to ascertain transportation related emissions
- Prioritize educating students and faculty and involvement in the decision-making process

## Outcomes

- Reduce overall carbon emissions
- Increase energy efficiency for buildings utilizing off-campus stationary
- Obtain data necessary to formulate effective emission reduction plans
- Foster a more climate-aware populace across all Rutgers campuses

#### Acknowledgements

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