

# Measurement to Manage: The Benefits of a Greenhouse Gas Inventory

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Clean Air-Cool Planet

New Hampshire Businesses for Social Responsibility  
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PLANET

# Clean Air-Cool Planet

*Finding and promoting global warming solutions...*



*For Corporations*



*For Campuses*



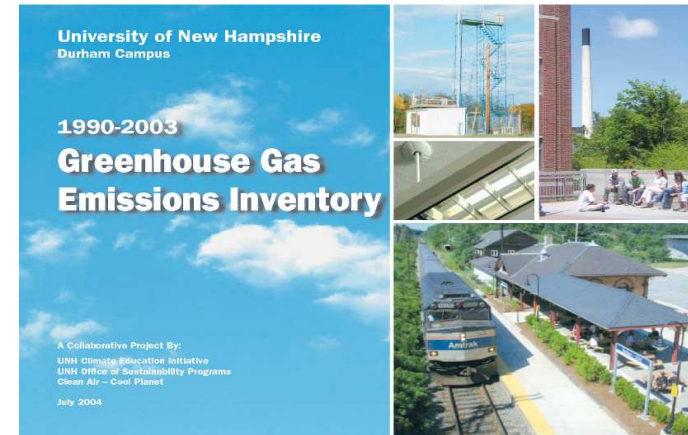
*For communities*

[www.cleanair-coolplanet.org](http://www.cleanair-coolplanet.org)

# What is a GHG Inventory?

An entity-wide list of GHG emissions sources & activities and their quantities

- A first step
- A management tool

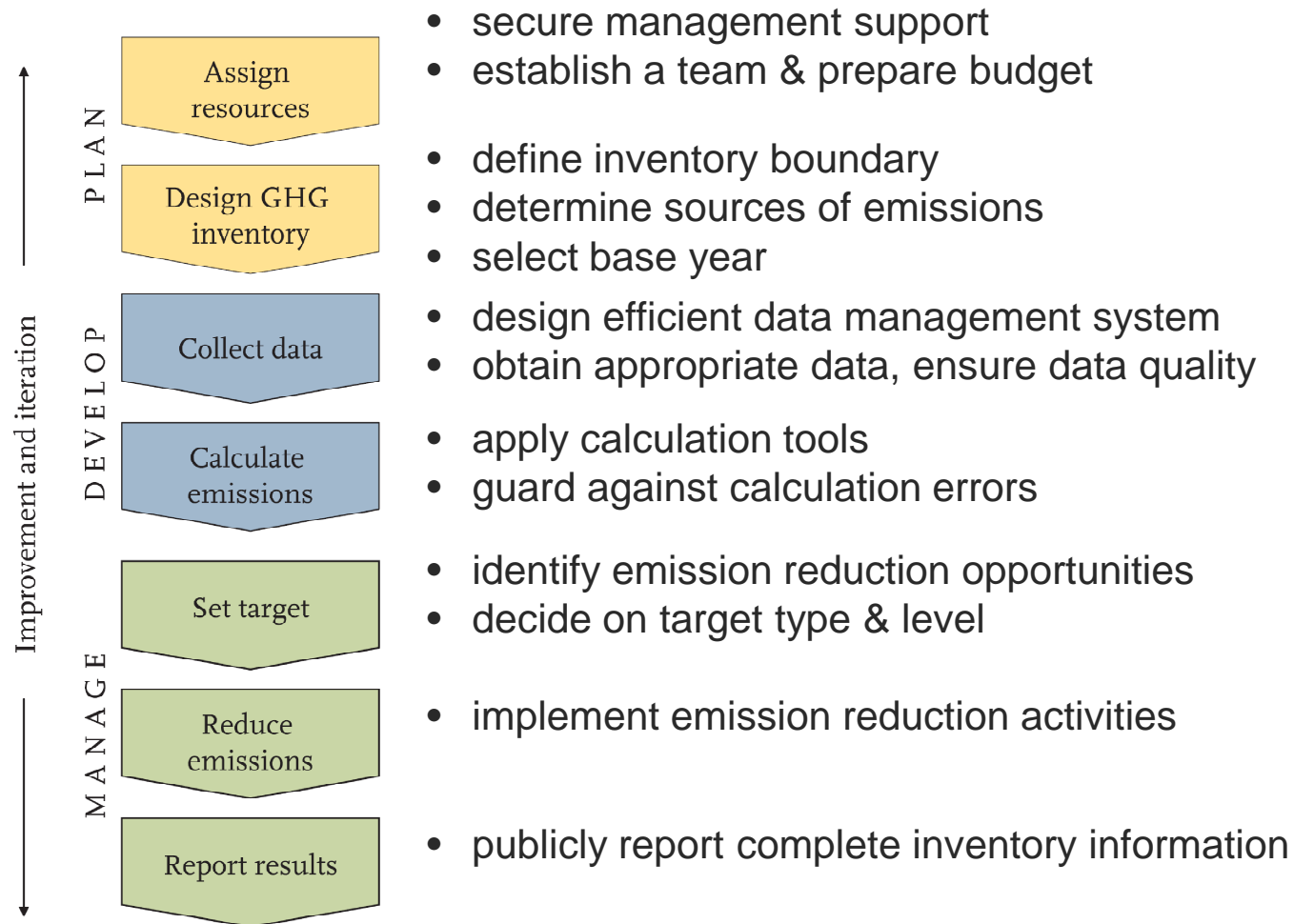


# Inventory Sets Foundation for Business Strategy

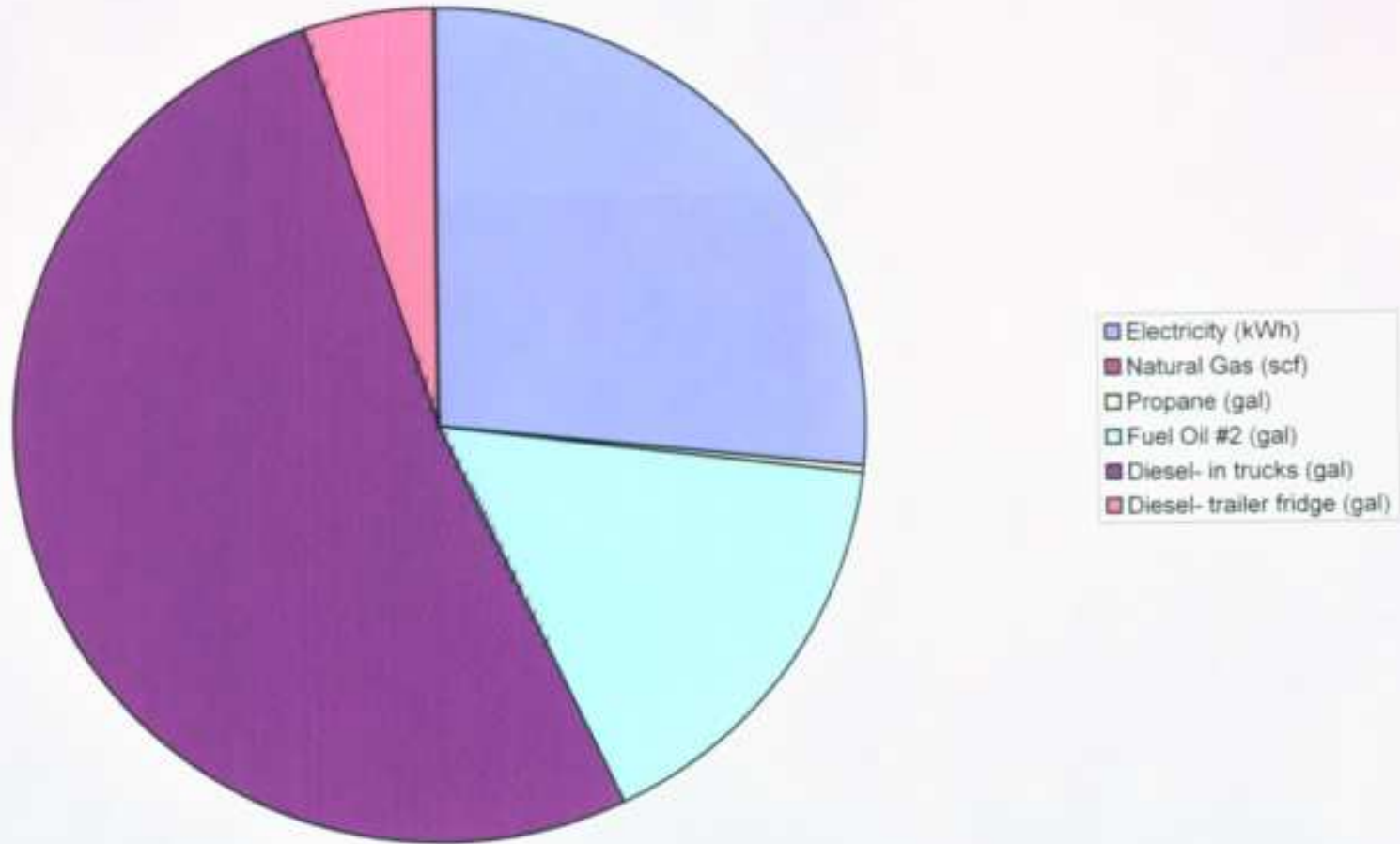
- GHG risk management
- Identify energy/operational inefficiencies and GHG reduction opportunities
- Participation in GHG markets and voluntary initiatives
- Improved brand management
- Stakeholder relations



# Inventory Work Has Several Stages

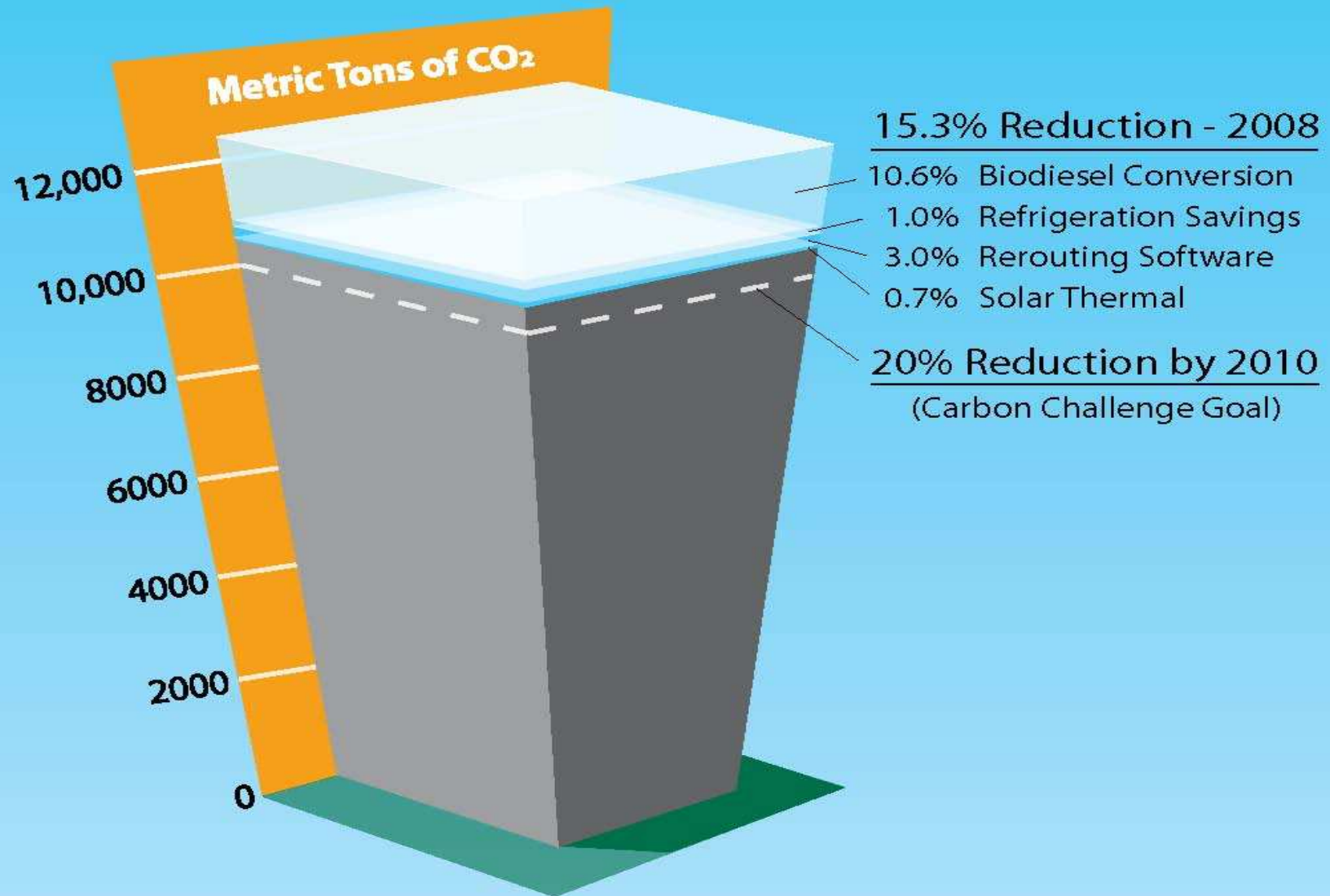


Oakhurst emissions by source 1998-2004





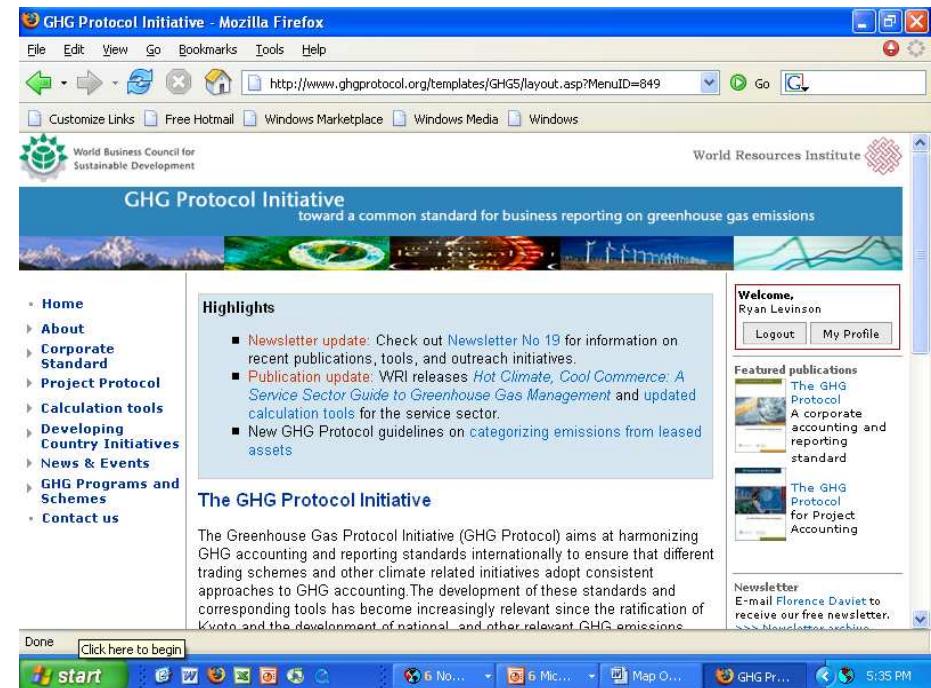
# REDUCING OAKHURST'S CARBON FOOTPRINT





# GHG Protocol Initiative

- Convened in 1998 by WRI and WBCSD
- Mission: to develop international GHG accounting & reporting standards and tools
- Two modules: GHG Protocol Corporate Standard and GHG Protocol for Project Accounting



[www.ghgprotocol.org](http://www.ghgprotocol.org)

# [ GHG Accounting - Public Sector ]



***Communities:  
ICLEI, Torrie-Smith***

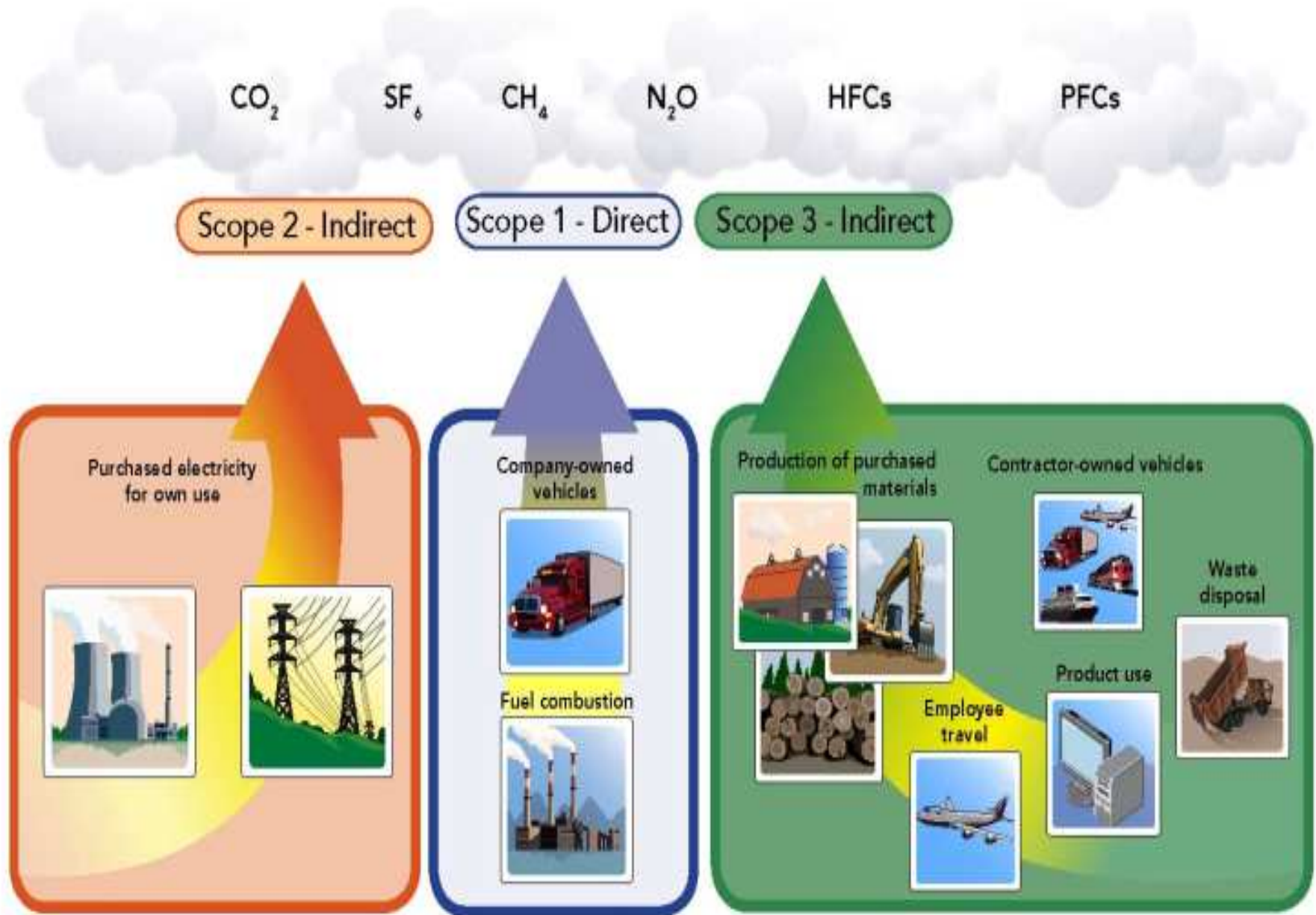


***Campuses: CA-CP***

# [ Planning a GHG Inventory ]

Questions that need to be considered include:

- What business units/facilities will be included in the inventory (organizational boundary)?
- What GHG sources and activities will be included (operational boundary)?
- What base year will selected?



# Collecting Your Data

## Scope 1

- Stationary fuels (gallons/mmbtu)
- Fleet vehicles (gallons or kWh)
- Heating – Oil/Propane/Natural gas
- Fertilizers (pounds synthetic or organic)
- Refrigerants/Chemicals

## Scope 2

Purchased steam, electricity, or chilled water (kWh or MMBTU)

## Scope 3

- Commuting emissions
- Outsourced air travel
- Outsourced ground travel
- Trash
- Wastewater
- Purchased food
- Purchased paper
- Upstream energy

## Benchmarking

Per \$

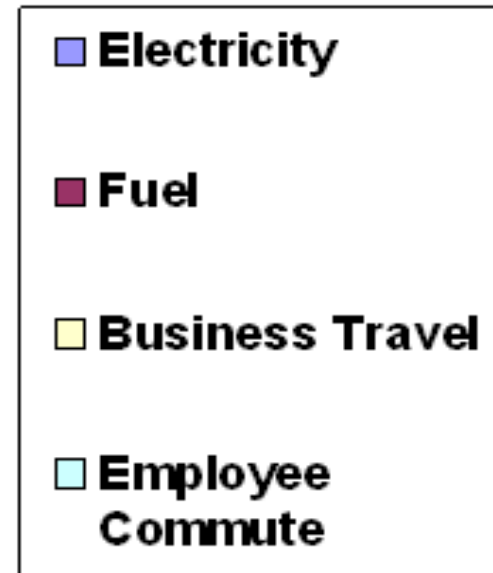
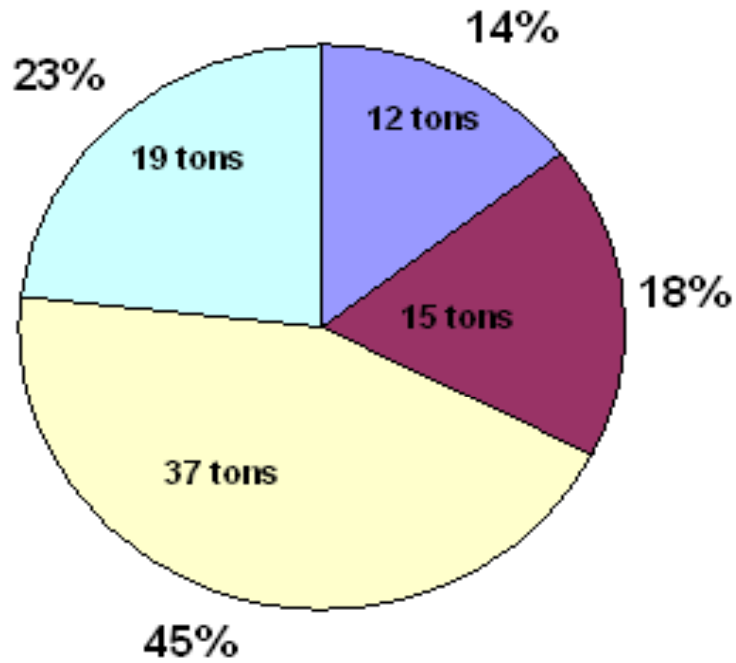
Per square foot

Per capita

Per degree day

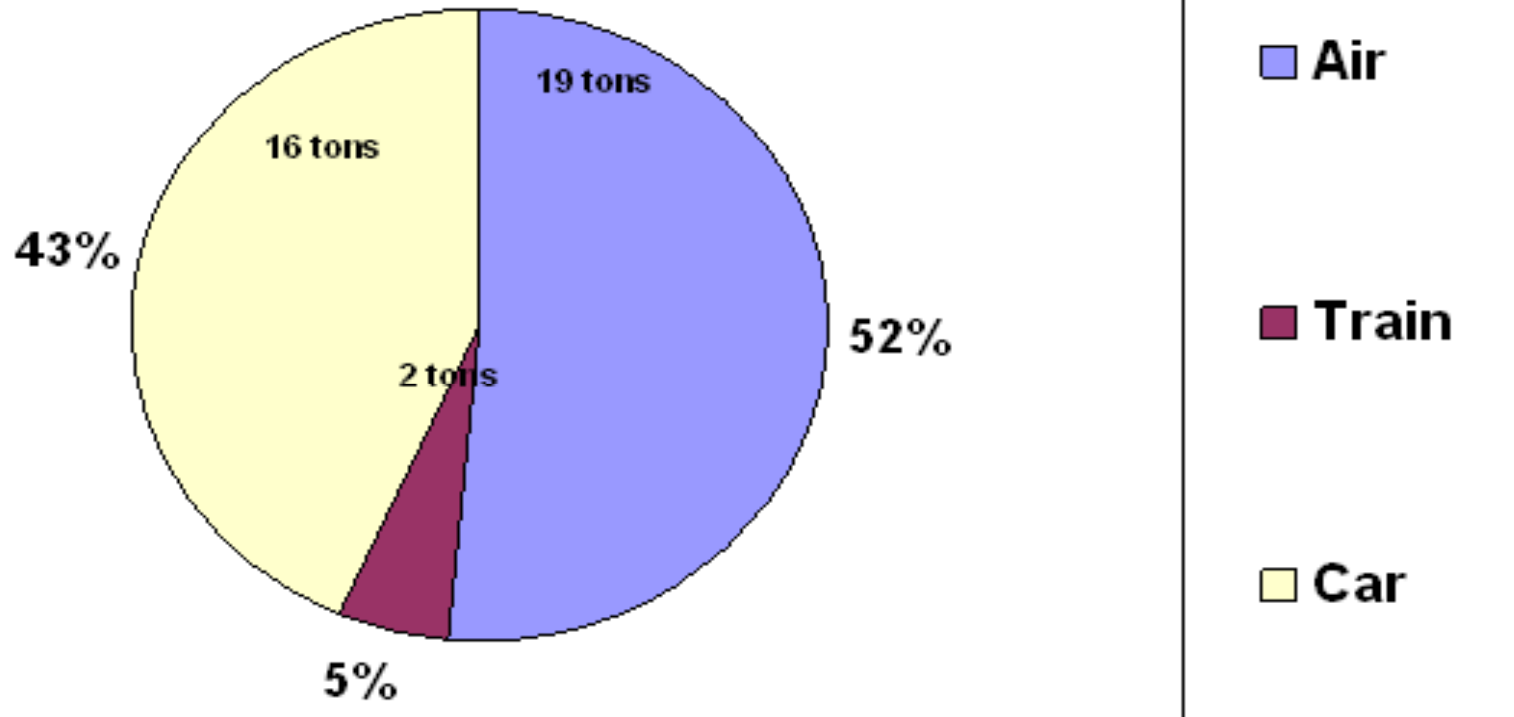
# CA-CP Footprint 2007

## Sector Comparison



# CA-CP Footprint 2007

## Business Travel



## Benchmarks for CA-CP

*How well does the company measure its climate footprint? -*

**Score: 13/22**

*How much has the company done to reduce its climate impact?*

**Score: 48/56**

*Does the company explicitly support progressive climate change legislation?*

**Score: 10/10**

*How clearly and comprehensively does the company publicly disclose its climate protection efforts?*

**Score: 9/12**

**TOTAL SCORE: 80/100**



# [The Bottom Line?]

- Create a team with a timeline and authority to collect data.
- Calculate carbon footprint & develop a reduction plan.
- Patience....

# Contact Info

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