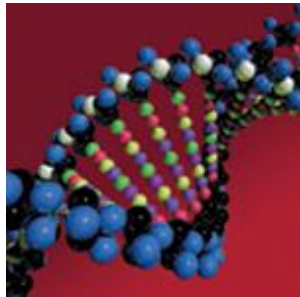


# Leadership in Carbon Management



Case studies for moving forward

Lisa Nelowet Grice

ENVIRON

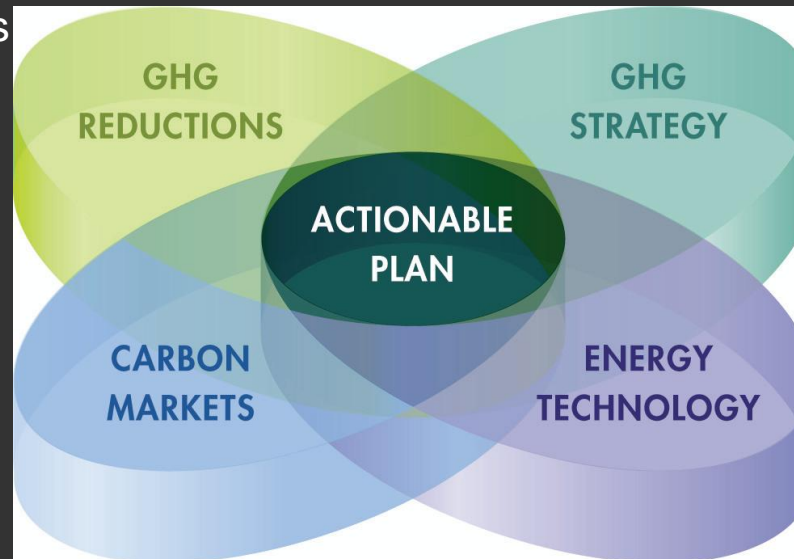
# Carbon Management

## GHG Reductions

- Energy management
- Combustion optimization
- Low carbon bldg design
- Renewable energy
- Process improvements
- Sequestration

## GHG Strategy

- Carbon inventory & footprint
- Product Life Cycle Assessment
- Data management & software
- Regulatory compliance & policy
- Management systems
- Government programs
- Communications



## Carbon Markets

- Offset project assessment
- Offset portfolio management
- Project development support
- Carbon and financial market analysis

## Energy Technology

- Market assessments
- Technology assessments
- Technology development
- Risk assessments
- Clean energy & low carbon technologies



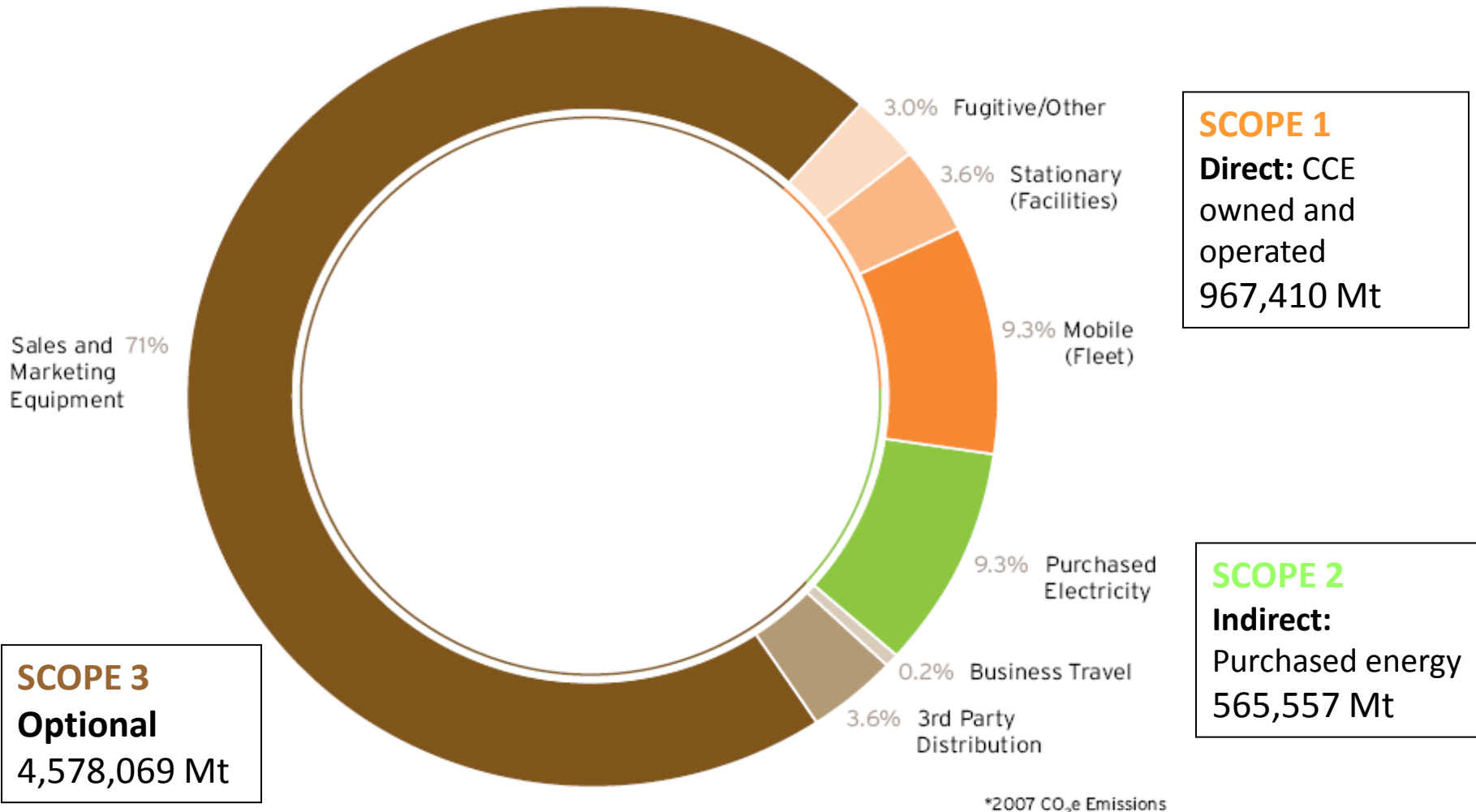
# Defining Leadership

- Understanding impacts
- Evaluating and driving reductions
  - Energy efficiency beyond the basics
  - New technologies
  - Renewable energy
- Engaging and communicating
  - Employees
  - Markets
  - Other Stakeholders



# Coca-Cola Enterprises

Our 2007 Carbon Footprint has been measured at 6.1 million metric tons CO<sub>2</sub>e





# Evaluating & Driving Reductions

We will reduce the overall carbon footprint of our business operations by 15 percent by 2020, as compared to our 2007 baseline.

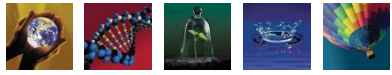


- Energy efficient coolers: installing energy management devices, which activate lights and adjust cooling based on usage signals. Expanding use of Low-Energy LED lighting.
- Conversion to industrial and high-bay fluorescent lighting systems. Will decrease lighting energy use by up to 50%.
- Geothermal energy system installed in Belgium, up to 10% energy savings at that facility
- Largest hybrid electric truck fleet in North America (328 trucks), increases fuel efficiency 30%

# Product Carbon Footprints

- First certified product footprint of a sparkling beverage
- Footprints completed for Coca-Cola, Diet Coke, Coke Zero and Dasani (2008/2009)
- Primary contributor to footprint? Packaging
- Reductions:
  - size of plastic twist-off on sparkling beverages and Dasani bottles,
  - weight of cans, PET bottles and glass bottles
  - weight in secondary packaging by eliminating cardboard side walls on corrugated trays.





# Engaging employees and community

Headline: February 12, 2010

86% of Firms Fail to Engage Employees on Sustainability\*

## CCE Employee Engagement on Sustainability:

- Employee magazines
- Intranet
- CRS in Action Week
- Global employees engagement survey
  - CRS is now the second biggest driver of employee engagement at CCE





# Safety-Kleen




- Safety-Kleen is North America's largest recycler of used motor oil and solvents, serving 430 of the Fortune 500 companies
- Annually recycling more than 200 million gallons of used motor oil
- Operates throughout the North America
- Owns the largest used oil re-refinery in the world





- Safety-Kleen re-refined base oil results in 81% fewer GHG emissions than non re-refined oil per gallon produced
- This translates into a reduction of over 1 million metric tons of CO<sub>2</sub>e in 2008 as compared to the equivalent non-re-refined product.
- This reduction is more than 6 times the energy used at Safety-Kleen re-refineries!



**Greenhouse Gas Emissions Savings**  
**Base Oil Re-refining vs. Non-re-refining**

Customer Name

e-refined Oil Base Oil Purchased

**Units**  
 Please select appropriate units from drop-down menu

3,239 Gallons	Gallons of Gasoline
0.4 Trucks	Tanker Trucks worth of Gasoline
4 Homes	Electricity Use of Homes for a year
3 Homes	Energy Use of this many Homes for a Year
739 Trees	Carbon Sequestered by Tree Seedlings grown for 10 Years
6.5 acres	Carbon Sequestered annually by acres of pine or fir forests
1,178 canisters	Propane Cylinders used for Home BBQs
0.1 railcars	Railcars worth of Coal
9.8 tons	Recycling tons of waste instead of sending to Landfill
6.1E-06 plants	Annual Emissions from Coal-fired Power Plants

Using results to communicate to customers, regulators, etc.



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