



- 1. Carbon Project Development
- Climate Consulting for Organizations and Businesses
- 3. Offsets for Individuals, Organizations and Businesses



Understanding Carbon Offsets: Topics for Today



- Individual carbon accounting (carbon footprinting)
- Visualization of atmospheric carbon
- Introduction to carbon offsets
- Cap and trade, regulatory market vs. voluntary market
- Carbon offset project examples and decisions for purchase

Carbon Footprints

- Calculator results?
- Measure → Reduce → Balance

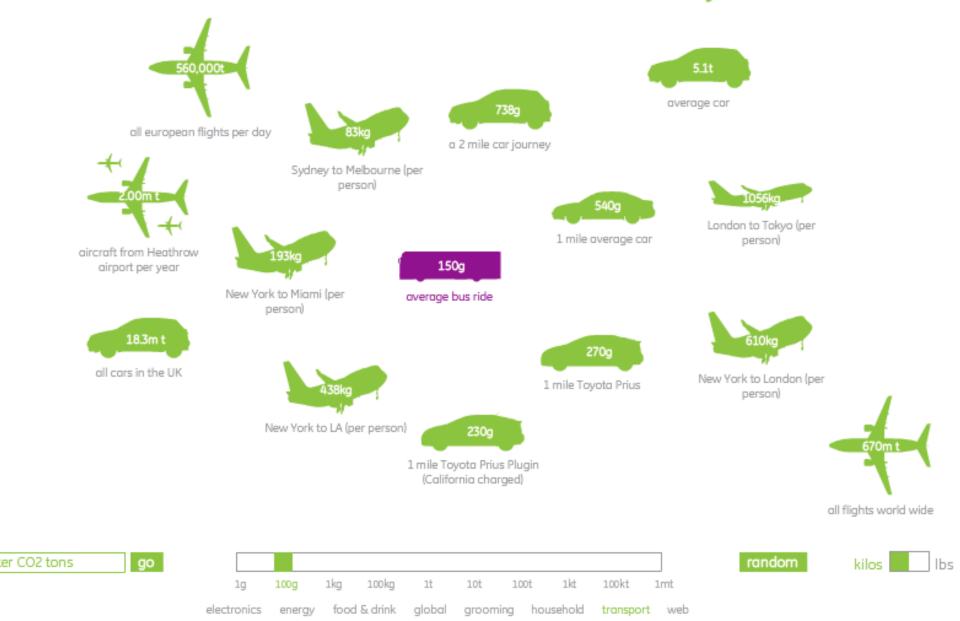
Carbon Visualization

 How do we translate an abstract set of data into a visual representation?

How much CO₂ is created by...

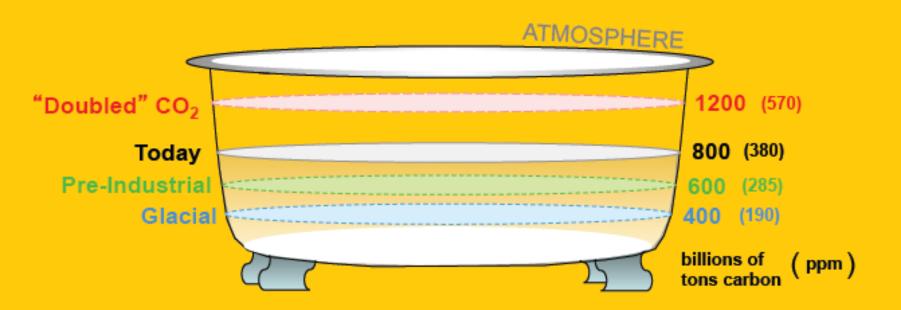


How much CO₂ is created by...

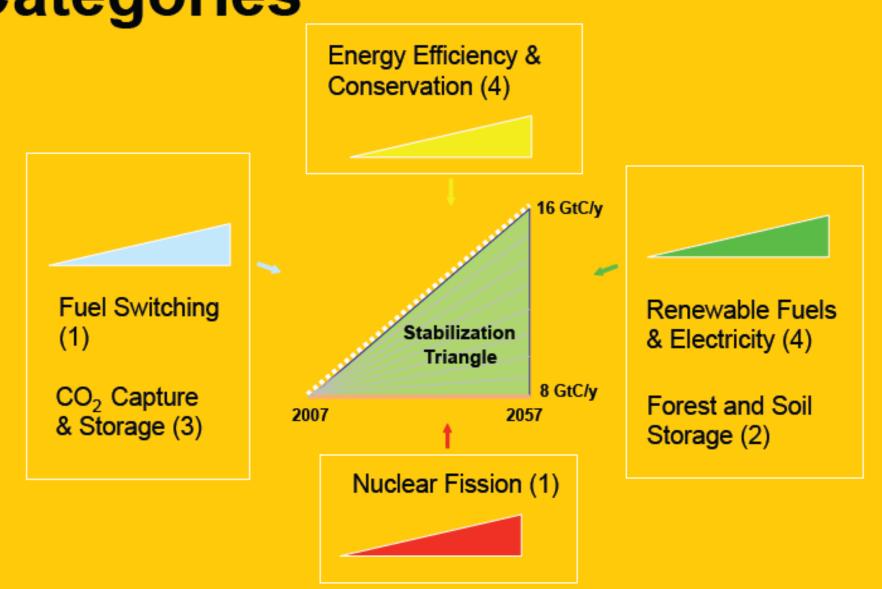




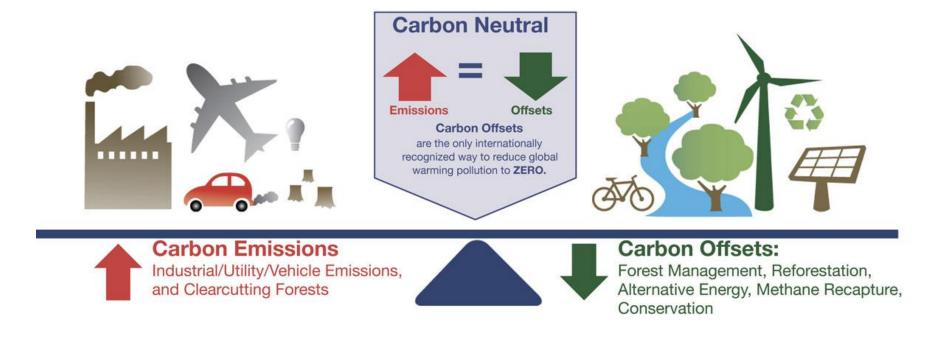




15 Wedge Strategies in 4 Categories



Carbon Offsets



 A carbon offset is one metric ton of carbon dioxide equivalent (CO_{2e}) that is taken out of the atmosphere and sequestered, or one metric ton of CO_{2e} that is not emitted to the atmosphere.

Market-based solutions

- Place a value on something that was previously un-valued, and market interests will respond
- What would you pay for clean air, preservation of natural ecosystems, stable coastlines, etc.?



Carbon Offset Standards

Voluntary













Regulatory

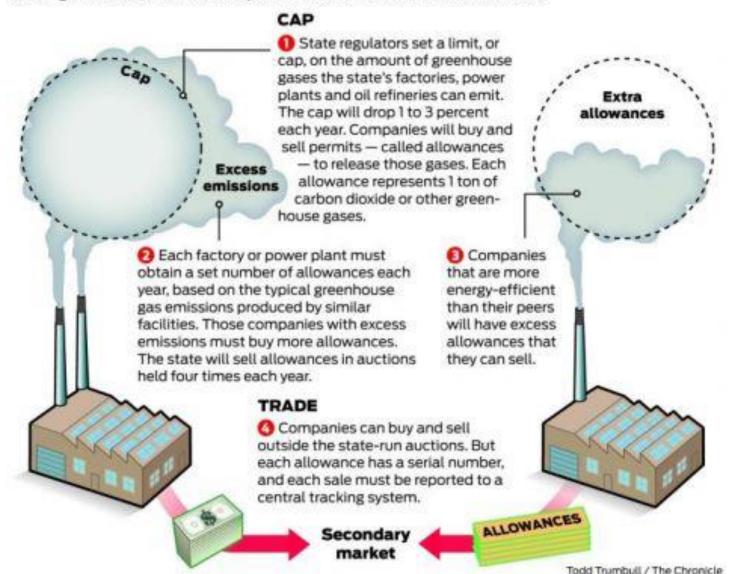






Inside California's cap-and-trade system

Cap-and-trade systems use market forces to cut pollution. On Wednesday, California will launch America's first large-scale cap-and-trade market to control the greenhouse gases that cause global warming. If it works, it could one day become a model for the rest of the nation.



Carbon Offset

One Metric Ton of CO2 Equivalent

A High Quality Carbon Offset Can Demonstrate



- Price
- Country of origin
- Vintage
- Timing of delivery

Example of a Carbon Offset Project

Panama Reforestation Project

- Re-planting native rainforest trees on degraded land
- High biodiversity benefits
- Positive social impacts
- Certified carbon offsets



Baseline Land Use Activities





Forest Establishment



• 10 months old

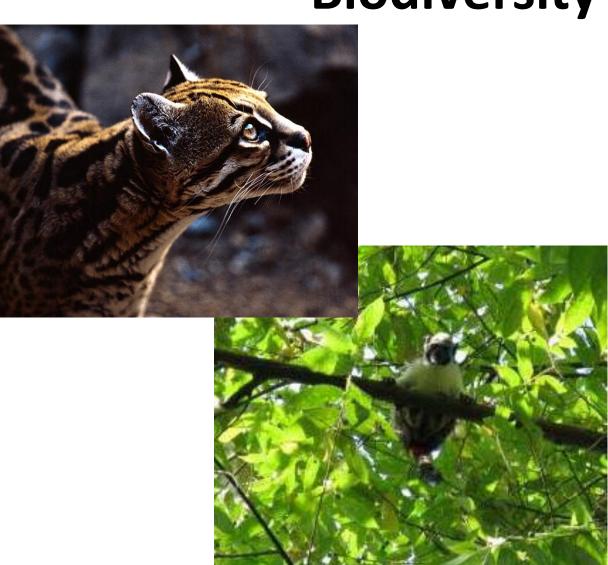
Forest Establishment



• 9 years old



Biodiversity



Ocelots
returned to the
forest after 7
years.

 Spider monkeys back in the forest after 9 years

Example of a Carbon Offset Project

Huls Dairy Methane Capture and Energy Generation

- Capture and reduce methane to carbon dioxide
- Combines this combustion with energy generation
- Local dairy saving money and creating new products
- Certified carbon offsets and RECs



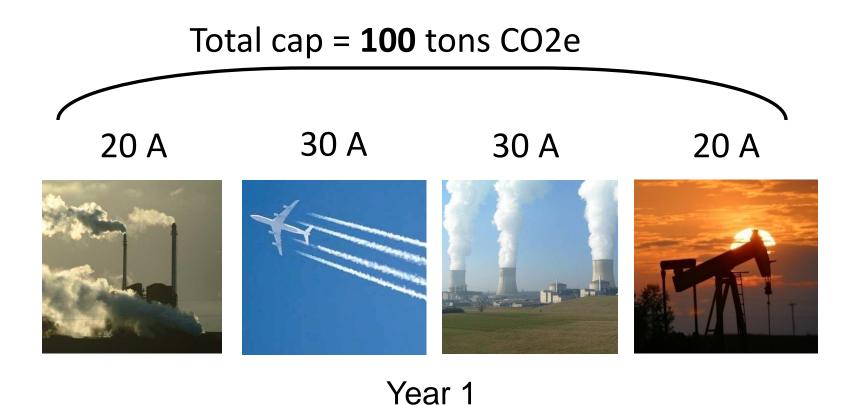


Questions?

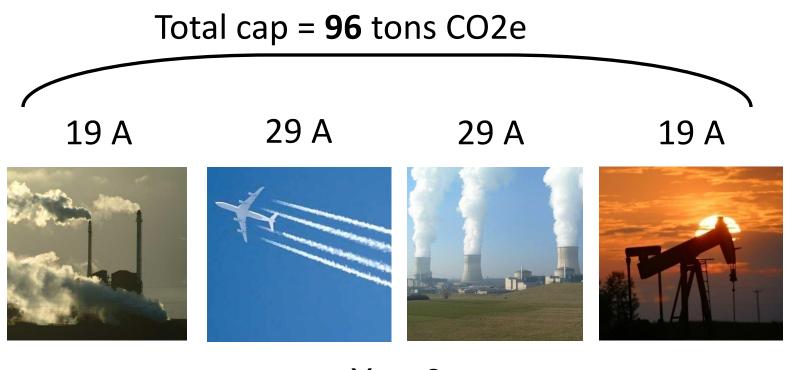
The job is to make the impossible, possible.

Your solution can be found in what you read in your spare time?

Cap

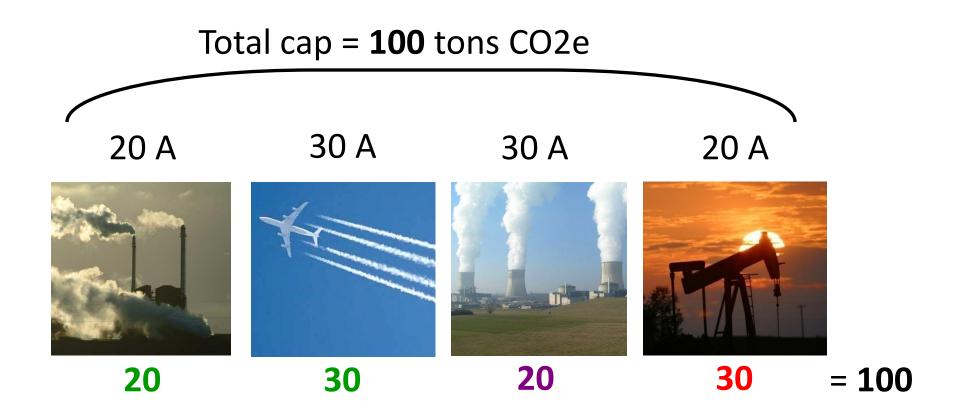


Cap

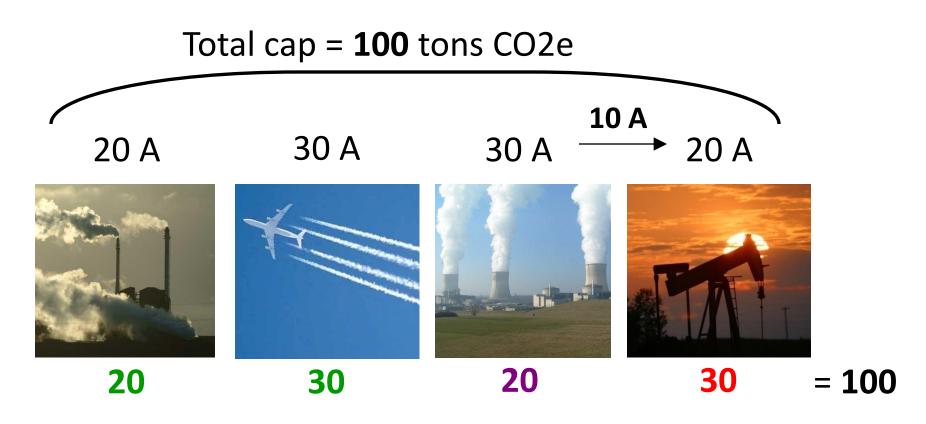


Year 2

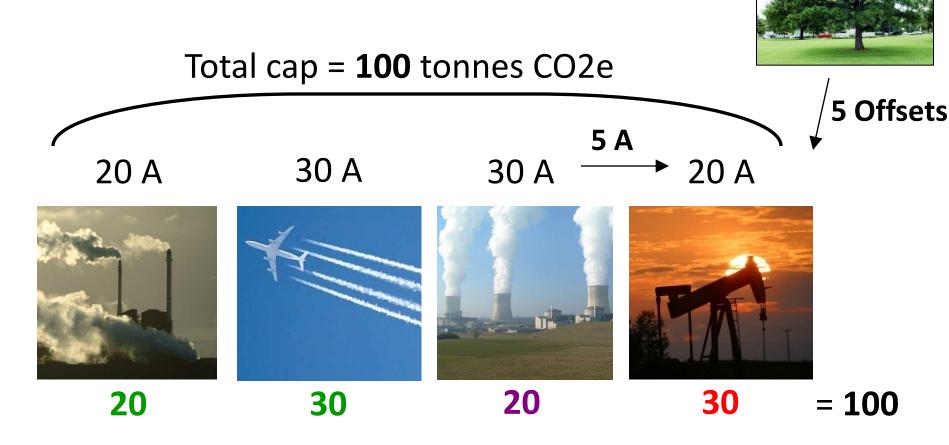
Cap and Trade: Allowances



Cap and Trade: Allowances



Cap and Trade: Offsets



www.clearskyclimatesolutions.com

415 N. Higgins Ave., Suite 11 • Missoula, MT 59802 • P: (406) 721-3000