

Carbon

- □ Canadian emissions grew 26.2% from 1990 to 2005 by 758 Mt overall
- □ 23.5 tonnes per capita
- □ Return flight to Toronto: 1.4 tons
- □ 20,000km in a Civic: 3.2 tons
- □ Standing still: 350kg



Drivers of green agenda

- ☐ High uncertainty about climate change causes and impacts: choose 'no regrets'
- □ Consumer perceptions: 26-31% in Canada
- □ The decline of cheap oil = costs to consumers
- □ Health and exposure
- Geo-politics
- Diversification of the economic base



British Columbia

- Global trading in carbon at \$100m in 2006 and \$30bn overall
- □ \$1bn over 4 years for climate
- Significant investment in transport, bioenergy,
 LiveSmartBC and Green Building Code
- □ Carbon tax at \$10 per tonne rising to \$30
- Carbon Neutral government; air travel and scope 1 emissions
- □ Innovative Clean Energy fund



Business Case For A Carbon Neutral Company

- 1. Preparing for the future.
 - Mandatory GHG reporting for you and/or your clients - is coming.
- 2. Reduced emissions may reduce expenses.
- 3. Recoverable expense.
 - □ Offset cost often <1% of product value.
- 4. Carbon Neutrality as marketing platform.
- 5. Increased brand equity and market share.



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Case Study – HARBOUR AIR SEAPLANES



Downtown Vancouver to Downtown Victoria GHG emissions (kg) by Transportation Mod (1 passenger)

(1 passenger) (2 passenger) (3 passenger) (4 passenger) (5 passenger) (6 passenger)

Harbour Air is:

- ☐ The largest all seaplane airline in the world; and
- □ The only completely carbon neutral airline in the world.
- Business Challenge: communicating relative sustainability.

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Case Study –





- □ GHG Inventory & Reduction Strategy
- □ Establishment of carbon offset levy (\$0.50/leg).
- □ Corporate emissions offset directly.



Outcomes:

- Very high marketing benefit;
- □ Increased employee morale/price
- □ 12% increase in revenues.

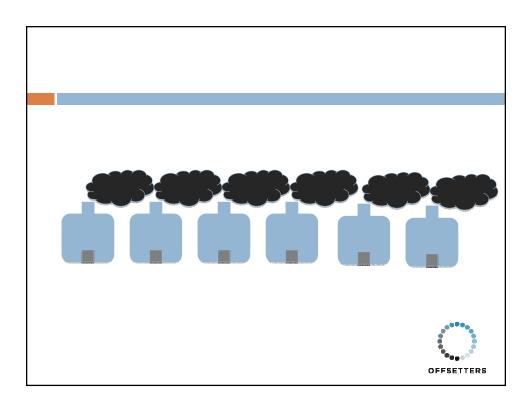
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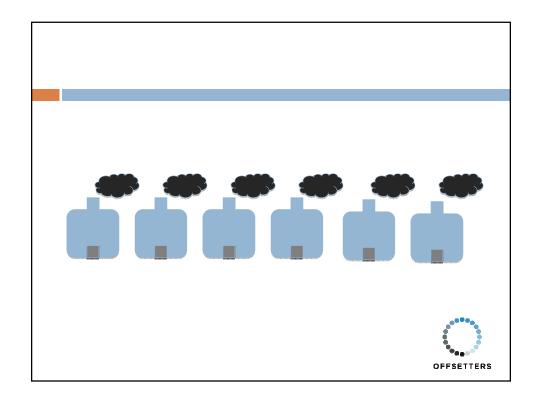
The climate imperative Audit Strategy Reduce Offset Promote

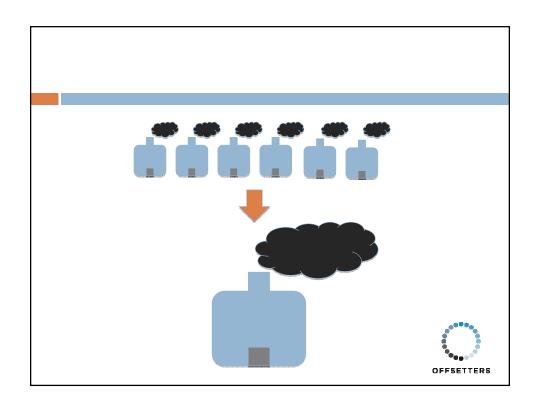
Voluntary offsets

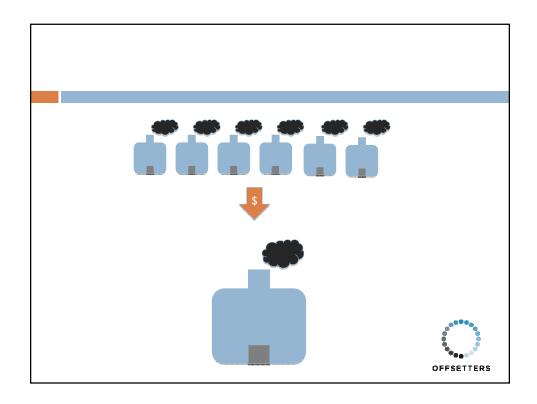
- □ Individuals and organisations locked into emissions for short term
- □ Pooling investment creates economies of scale
- □ Costly to reduce emissions
- □ Economy holds many opportunities overall
- \square At \$20 per tonne = GST cut

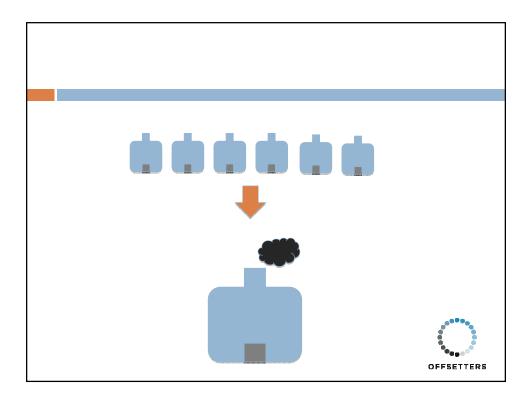












Sample Offsetters Projects



PROFILE: Sun Select Produce Greenhouse

LOCATION: Aldergrove, BC

TYPE: Fuel Switching / Energy Efficiency

CREDITS: ~7,500 tCO2e / per year

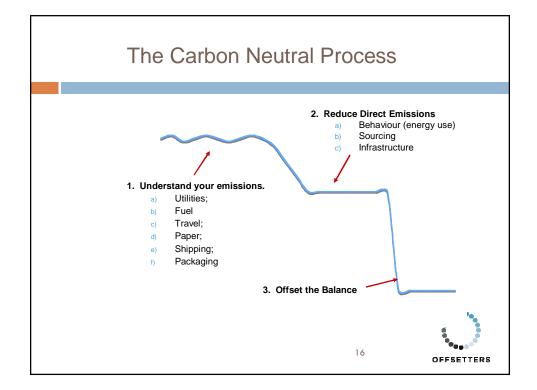
Status quo: Natural gas boiler

Innovation: Biomass boilers and heat curtains

Result:

- model for energy innovation (sectoral expansion)
- decreased fuel intensity; increased food security
- reduced light pollution

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Ranked Top Offset Provider in Canada by PricewaterhouseCoopers and Pembina Institute

Clients include...











... and thousands more

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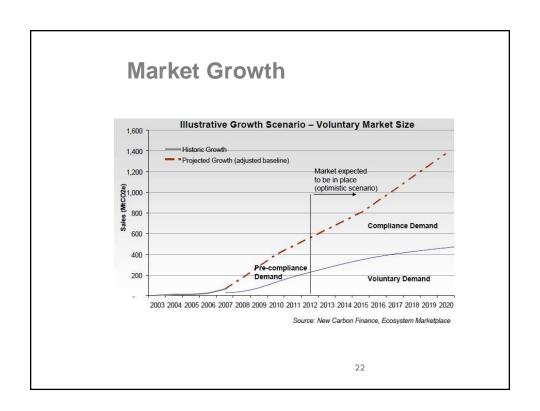




Local Projects

- □ Groundsource heat pumps in municipal buildings
- □ Biofuels for major fuel users
- □ Energy efficiency upgrades in agricultural sector
- Solar thermal
- □ Greywater heat recovery
- □ Third party verification important





Strategy in commercial real estate

- □ Competitors looking at CSR
- □ CBRE announced 2010 neutrality goal
- □ Climate as a 'wedge' to build brand equity in CSR
- □ Phase 1: get your own house in order
- □ Phase 2: co-brand consulting services for clients
- □ Offset heat and power for 10-20c/sf/year
- □ Joint venture foundations: expertise combined with presence in international markets

OFFSETTERS