

*Tackling Global Warming –
Opportunity for companies for a
sustainable future*



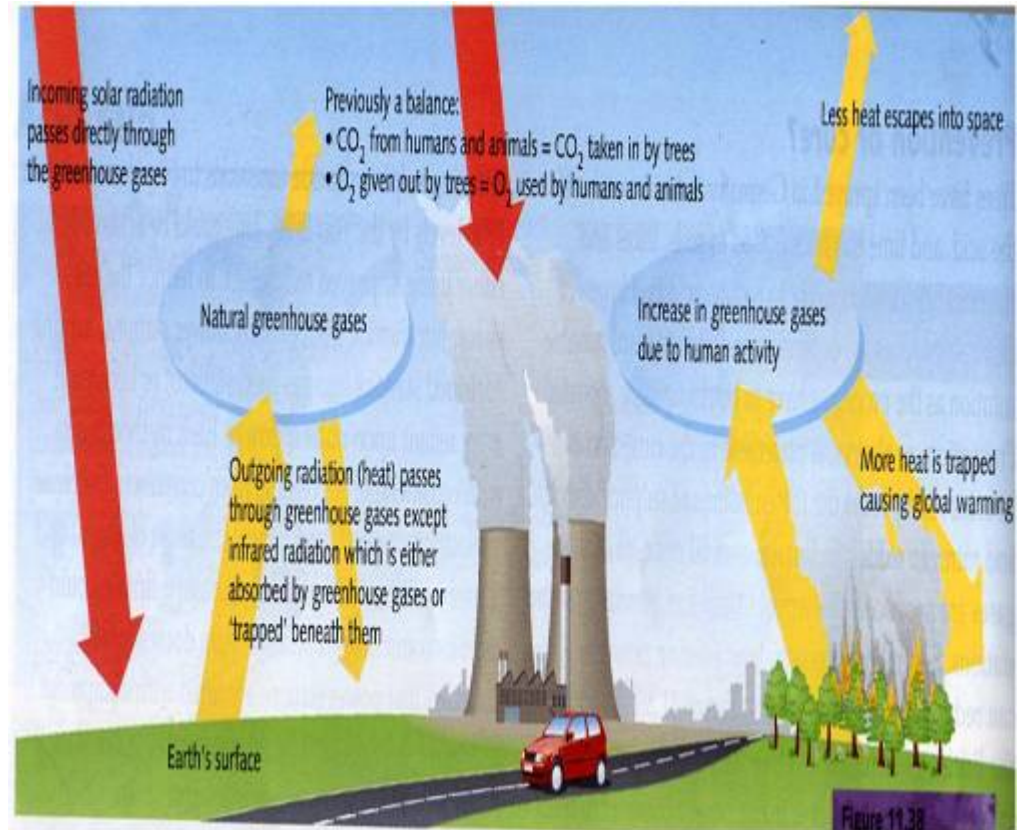
Sustainability
it's everyone's business

Shailesh Haribhakti

Executive Chairman - BDO Haribhakti

What causes Global Warming?

- Carbon dioxide and other gases warm the surface of the planet naturally by trapping solar heat in the atmosphere.
- This is a good thing because it keeps our planet habitable. However, by burning fossil fuels such as coal, gas and oil and clearing forests we have dramatically increased the amount of carbon dioxide in the Earth's atmosphere and temperatures are rising.



Effects of Climate Change on the environment



- A vast majority of scientists agree that global warming is real, it's already happening and that it is the result of our activities and not a natural occurrence. The evidence is overwhelming and undeniable.
- We're already seeing changes. Glaciers are melting, plants and animals are being forced from their habitat, and the number of severe storms and droughts is increasing.



Sustainability is a transition

From

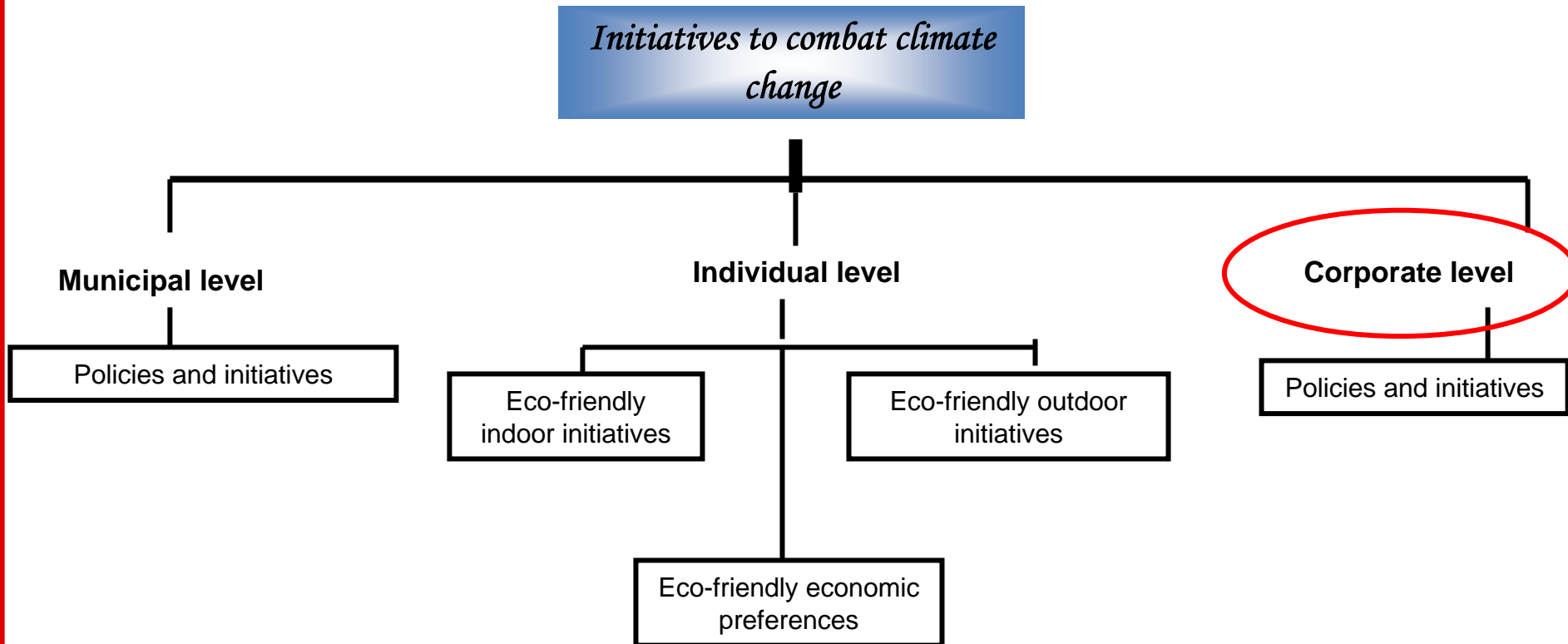


- Short – term thinking
- An economy outside of nature
- A linear flow of resources
- Fossil fuels

To



- Long – term thinking
- An economy integrated with nature
- A systems flow of resources
- Bio fuels



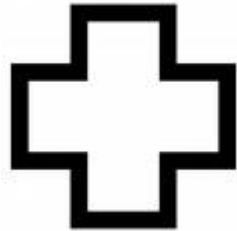
While the world is uniting to combat climate change, it is the efforts taken at the Corporate level which will decide the future course of the planet



Intergenerational Equity – Meeting the needs of today, without inhibiting future generations from meeting their own needs

Industrial waste

Premium cement



Fly ash (waste from thermal power plants)

Slag (waste by product from steel plants)

ACC has successfully demonstrated re-channeling the use of industrial wastes such as fly ash and slag to make premium quality blended cement.

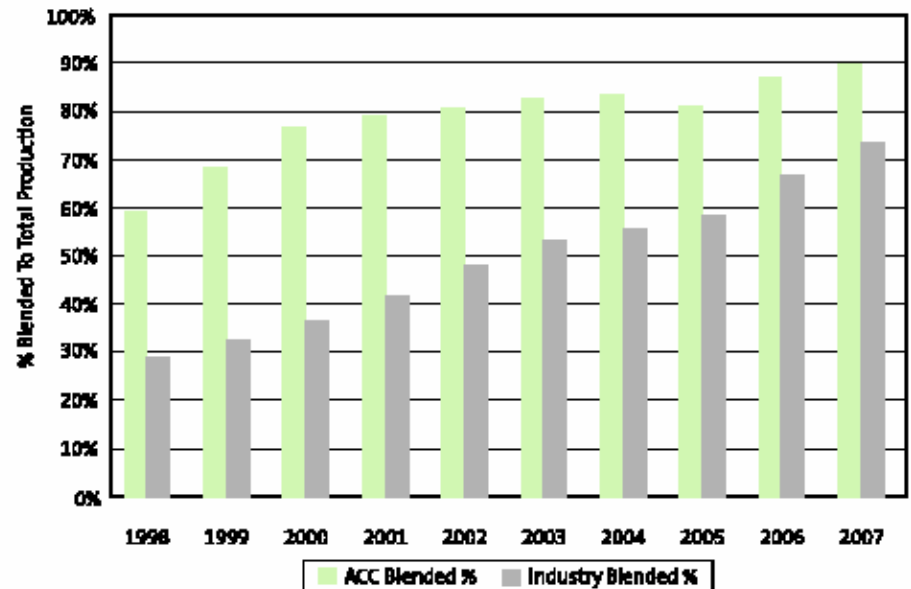
ACC Case study: Blended cement

- ACC has been a trend setter in the industry as **85% of production comprises of environment friendly 'green' cement**
- Blended cements involve less combustion and hence less emissions. The use of these materials to make value added cements is acknowledged as serving many benefits – **conservation of limestone, energy conservation, recycling of pollutant industrial wastes and reduction of green house gases**

Mineral Component and Clinker Factor

	2007	2006
Clinker factor (%)	67.58	69.43
Blast Furnace Slag consumption (Million Tonnes / annum)	1.86	1.75
Coal fly ash consumption (Million Tonnes / annum)	3.54	2.99

Graph showing trend in blended cement production



ITC Case study: Fibre strategy



Availability of wood, the prime source of fibre for paper and paper boards remains a major challenge and concern for sustainability.

ITC's paperboards mill at Bhandrachalam manufactured over 299,459 tonnes of paperboards in 2007-08 using 296,528 tonnes of wood, apart from waste paper and some special pulp.

During the year 52 million high quality saplings were distributed and an additional 15,115 hectares of plantations were added (cumulative plantations amount to 80,000 hectares and the company has distributed over 332 million saplings).

Over 93% of Bhandrachalam mill's total wood requirement came from plantations under the company's forestry project. The company is committed to green 100,000 hectares in the next few years; which would far exceed their own fibre requirement and create employment opportunities

Wal-Mart Case study: Transportation



With over 7,000 stores, Wal - mart trucking fleet is one of the largest private fleets in the world. At \$2.65 per gallon and current projected annual miles, by improving the fleet fuel mileage by **just one mile per gallon**, the company expects to save over **\$40 million a year** .

Number of Trucks in Fleet

2005 - 6,936

2006 - 7,075

Metric Tons of CO₂ from Private Fleet

2005 - 1,320,408

2006 - 1,298,324

Total Miles Driven

2005 - 817,096,803

2006 - 810,283,850

APU Savings: 100,000 Metric tons of CO₂ and \$25 million in diesel.
Wal - mart is perusing transformational improvements by working truck engine manufactures to produce a hybrid truck by 2009-10. Hybrid trucks will electrify components to reduce fuel needs and recover energy that can be transferred to electric motors that will power the truck in lower speed operations.

Lower fuel costs = Lower prices for customers + Significant environmental benefits

Wal-Mart Case study: Innovative Energy saving techniques



All of Wal-Mart's high efficiency stores contain motion-activated sensors in LED lighted cases, illuminating merchandise as customers approach and conserving energy when shoppers are not nearby.

LEDs with motion sensors use 70 percent less energy than industry standard fluorescent bulbs and can lower a store's overall energy use by approximately three percent. The total energy savings for LED lighting with motion sensors is more than 120,000 kWh per year,

The new indirect evaporative cooling system cools water naturally by pumping it through roof-mounted towers and then running the cold water underneath the retail floor to cool the shopping area. This acts as an air conditioner by cooling the ambient air closest to customers as it floats upwards.

The radiant floor is much more efficient than a conventional air-cooled system and significantly reduces maintenance costs.



Thank you