



Confederation of Indian Industry  
CII Sohrabji Godrej Green Business Centre

# What's your Carbon Footprint ?



# Climate Change and India

The world's total CO<sub>2</sub> emissions in the year 2011 was estimated to be 31.4<sup>1</sup> billion MT and is projected to increase by 46% to 45<sup>2</sup> billion MT by the year 2040. India, with its 1.75<sup>3</sup> billion MT, is the fourth largest emitter behind China, USA and EU. Between 1990 (Base year) and 2005, India's Greenhouse Gas (GHG) emissions had gone up by 65<sup>4</sup>%. The India Greenhouse Gas Emissions study (2007), reported that the energy and industrial sectors were responsible for over 65<sup>5</sup>% of India's emissions.

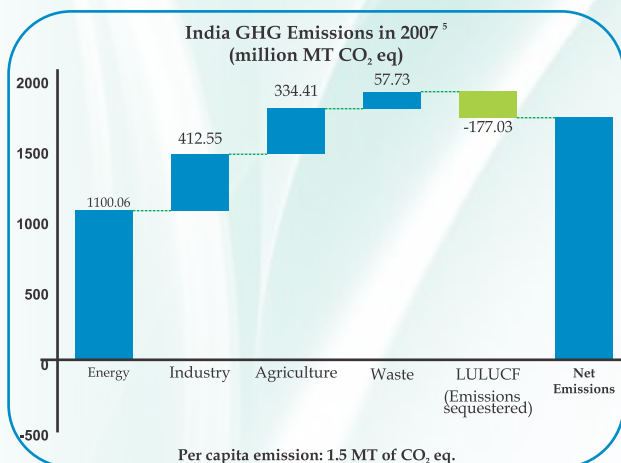


“Our vision is to create a prosperous, but not wasteful society, an economy that is self sustaining in terms of its ability to unleash the creative energies of our people and is mindful of our responsibility to both our present and future.”

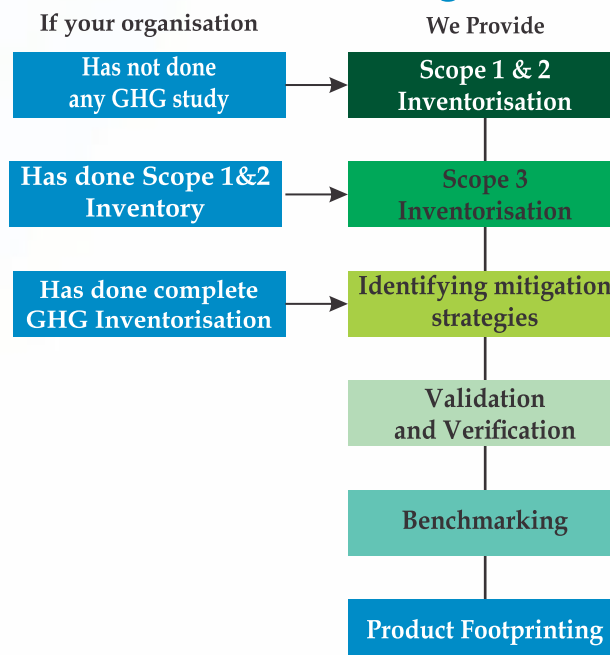
-Prime Minister of India, NAPCC, June 30, 2008

In order to address the rising concern on India's climate change, the National Action Plan on Climate Change (NAPCC) was launched in June 2008. It defines the areas of priority and carries a specific and well defined action plan. The NAPCC guides states in prioritizing a set of strategies, to achieve the national commitment of a 20-25% reduction in emission intensity (GDP) by 2020 (base year 2008). The Ministry of Environment and Forests (MoEF) has developed a common framework that can facilitate states to prepare their State Action Plans in line with the broad objectives of the NAPCC.

To encourage companies inventorise their GHG emissions, CII has developed the 'Corporate GHG Inventory Program Guide' for Indian industries in partnership with WRI and the US EPA (In line with GHG Protocol developed by WRI/WBCSD).



## Service offerings



### Global Companies Target Setting:

Organisation	Sector	Target Set	Status
BMW Group <sup>7</sup>	Automobile	At least 25% reduction by 2020 (baseline year 2008)	7% reduced (up to 2012)
L'oreal <sup>8</sup>	FMCG	Reduce CO <sub>2</sub> emissions at plants and distribution centers by 60% in absolute terms (baseline year 2005).	38% by 2012
Dupont <sup>9</sup>	Multi Products	15% reduction from operations by 2015 (baseline year 2004)	25% reduced (up to 2013)

### Indian Companies Target Setting:

Organisation	Sector	Target Set	Status
Wipro <sup>10</sup>	IT service	Reduce GHG intensity to 2.5 tons per employee by 2015 (baseline year 2008-09)	Reached 2.95 tons per employee (during 2012-13)
Mahindra Group <sup>11</sup>	Multi Service	5% reduction by 2013-14 (baseline year 2008-09)	17.83% achieved (up to 2013)
Hindustan Unilever Limited <sup>12</sup>	FMCG	40% reduction in emissions by 2020, from energy used per tonne of production. (baseline year 2008)	31.5% achieved (up to 2012)

\*From fuel consumption only

<sup>1</sup> IEA Key World Energy Statistics 2013

<sup>2</sup> US Energy Information Administration ([www.eia.gov](http://www.eia.gov))

<sup>3</sup> IEA Key World Energy Statistics 2013

<sup>4</sup> IEA 2007 Reports, "CO<sub>2</sub> emissions from fossil fuel combustion 1971 to 2005" and "World Energy Outlook 2007; China and India insights"; USEPA 2006, 'Global Anthropogenic Non-CO<sub>2</sub> greenhouse gas emissions, 1990-2020'

<sup>5</sup> India Greenhouse Gas Emissions 2007

# Greenhouse Gas Accounting

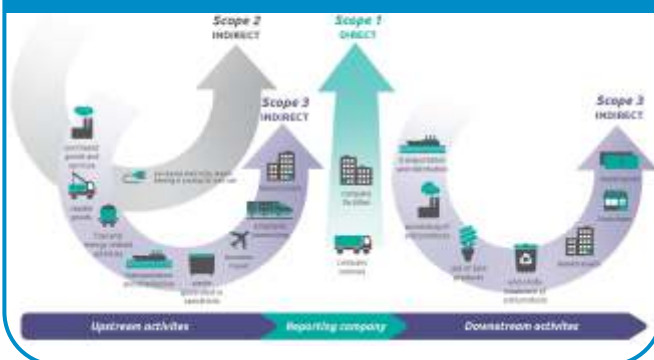
“GHG Accounting” describes the way to quantify Greenhouse Gas emissions, produced directly or indirectly. Gases include CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFC, PFC, and SF<sub>6</sub>. The accounting study categorizes emissions from operations in three scopes.

**Scope 1 Emissions:** Direct emissions from sources owned or controlled by the company.

**Scope 2 Emissions:** Indirect emissions from the generation of purchased electricity consumed by the company.

**Scope 3 Emissions:** Indirect emissions from upstream suppliers and downstream vendors of the company, calculated based on the “Corporate value chain (Scope 3) accounting and reporting standard”.

## GHG overview of scopes and emissions across a value chain<sup>6</sup>



## Deliverables of the study

- Customized emissions calculator
- Calculation of emissions intensity
- Comprehensive report
- Capacity building
- Mitigation strategies
- Target setting
- Development of action plan

## CII Services in conformance with

- GHG Protocol - Corporate Accounting and Reporting Standard.
- Corporate value chain (Scope 3) Accounting and Reporting Standard.
- Product Life Cycle Accounting and Reporting Standard
- ISO 14064 - 1
- Sector Specific Accounting (eg. CSI, Ports)

## Carbon Footprint study Benefits

### Financial Benefits

- Monetary gains from mitigation
- Increased investor confidence
- Eliminate climate change risk
- Enhanced insurance/credit rating



### Social Benefits

- Adherence to the national interest of emission reduction
- Conformance with the ultimate global goal of mitigating climate change

<sup>6</sup> GHG Protocol - Corporate GHG Accounting & Reporting Standard

<sup>7</sup> BMW, Sustainable Value Report 2012

<sup>8</sup> L'oreal Sustainable development report 2012

<sup>9</sup> Du pont, CSR report 2013

<sup>10</sup> Wipro, Annual report 2012-13

<sup>11</sup> Mahindra, Sustainability report 2012-13

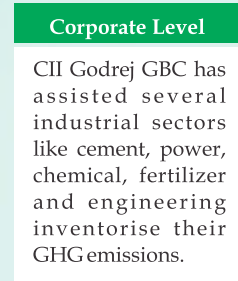
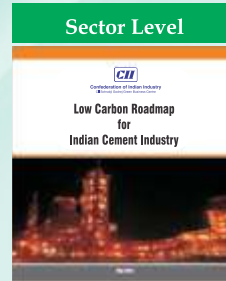
<sup>12</sup> Hindustan Unilever Ltd., Sustainability Report 2012



## CII - Godrej GBC's activities in the area of Climate Change

CII-Godrej GBC has been working in the area of climate change at the national, state and corporate levels. CII-Godrej GBC was involved in carrying out the ecological footprint study (report published in 2008). CII-Godrej GBC has also done the "Carbon Footprinting Study for States"; for Tamil Nadu and Andhra Pradesh. Sector specific studies like the "Low carbon Road Map for Indian Cement Industry" (in collaboration with the Cement Manufacturers Association (CMA)) were also done. CII-Godrej GBC was involved in the Aviation Climate Leadership Initiative, which was supported by the British High Commission, to assist the Indian aviation sector assess its current risks with respect to their GHG performance. CII-Godrej GBC works with organizations to inventorise and reduce their GHG emissions and has assisted over 70 companies in their GHG inventory.

**Total CO<sub>2</sub> inventorised - 400 million MT**



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## About us

The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the growth of industry in India, partnering industry and government alike, through advisory and consultative processes.

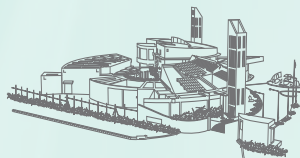
CII is a non-government, not-for-profit, industry led and industry managed organisation, playing a proactive role in India's development process. Founded over 119 years ago, it is India's premier business association, with a direct membership of over 7100 organizations from the private and public sectors (including SMEs and MNCs) and an indirect membership of over 90,000 companies from around 257 national and regional sectoral associations.

With 63 offices including 10 centres of excellence in India, and 7 overseas offices in Australia, China, France, Singapore, South Africa, UK and USA; and institutional partnerships with 223 counterpart organizations in 90 countries, CII serves as a reference point for Indian industry and the international business community.

CII- Sohrabji Godrej Green Business Centre (CII- Godrej GBC) is on the 10 centres of excellence of CII. It offers advisory services to the industry in the areas of green buildings, energy efficiency, water management, environmental management, renewable energy, green business incubation and climate change activities.

The centre sensitizes key stakeholders to embrace green practices and facilitates market transformation, paving the way for India to become one of the global leaders in green business by 2015.

The centre is housed in green building which was the first building in India to receive the prestigious Leadership in Energy and Environmental Design (LEED) Platinum rating in 2003. The centre was inaugurated by H.E Dr. A P J Abdul Kalam, the then President of India, on July 14, 2004.



**Confederation of Indian Industry**  
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