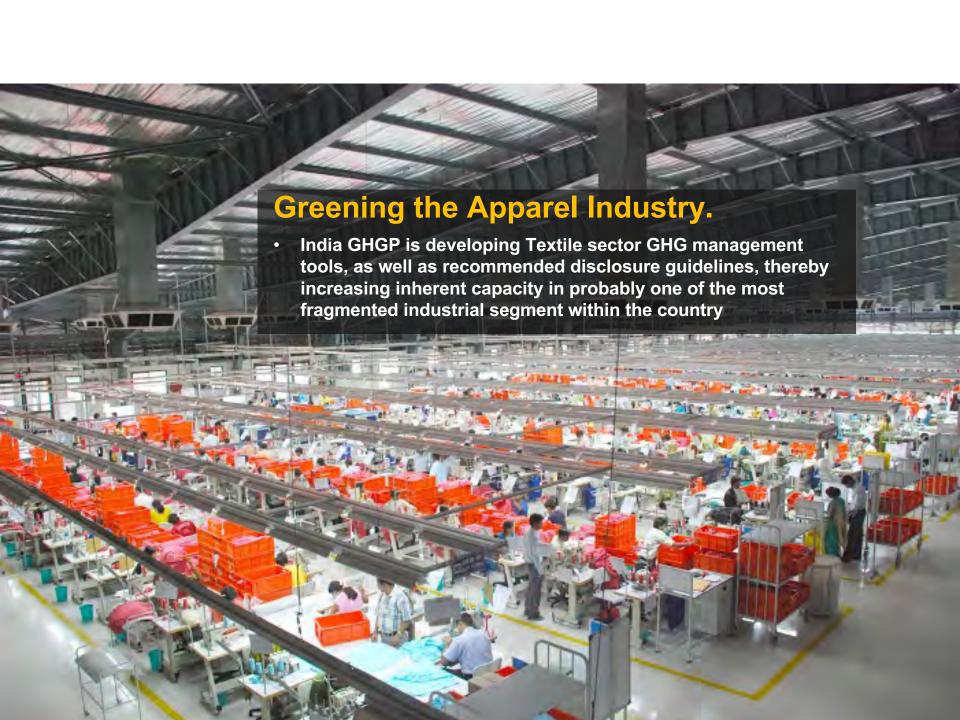


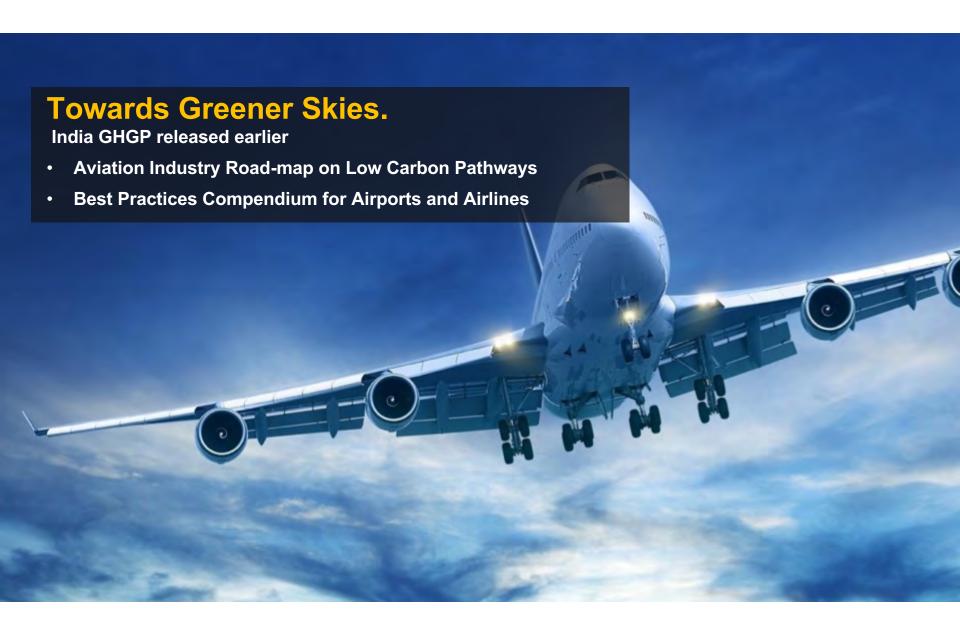
Introduction & Overview





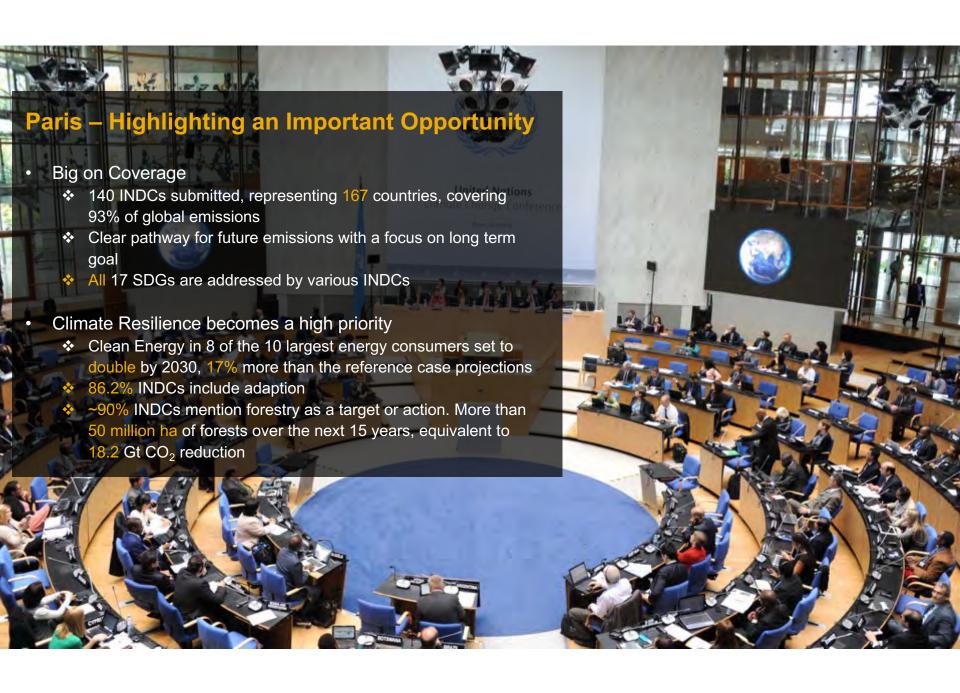








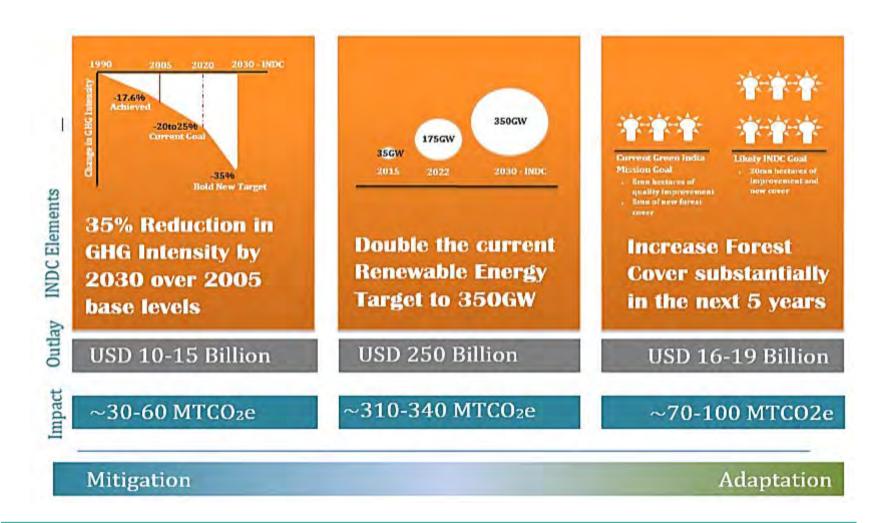






Paris Commitments

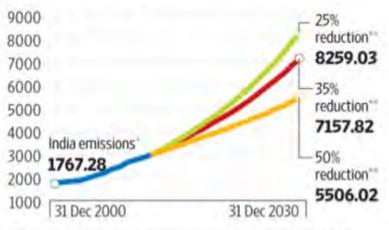
Key impetus on emissions intensity reductions, mainly via industry, buildings and transport





De-coupling Emissions from Growth

INDIA: EXPECTED EMISSIONS (if average GDP growth is 6.5% till 2030)



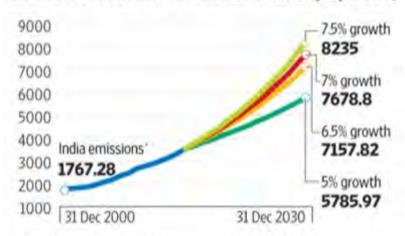
"Total Green House Gas (GHG) emissions excluding land-use change and forestry (MtCOZe)

India's GDP growth is expected to average 6.5% year-on-year for 2016-30

Source: IMF, World Resources Institute (WRI) and Mint calculations:

INDIA: EXPECTED EMISSIONS

(with 35% reduction in emission intensity by 2030)



"Total Green House Gas (GHG) emissions excluding land-use change and forestry (MtCO2e)

The various GDP growth assumptions are a constant annual average for 2016-30

Source: IMF, World Resources Institute (WRI) and Mint calculations

10

80%

India's total emissions come in from Energy & Industrial sectors – both being key areas of Business.

[&]quot;reduction from 2005 emissions intensity



Corporate Stewardship on Low Carbon Measures

Increasingly Businesses in India have been scaling-up action towards low carbon operations and growth.

120+

Businesses formally measuring their emissions based on GHG Protocol 40+

Large Businesses having emission reduction targets exceeding 35% reductions 33+

Businesses working on an internal carbon price On an average, the Indian Industry reduces ~ 150-165 million tCO₂e per year compared to business as usual

60+

Businesses formally reporting their annual GHG emissions to CDP 6+

Large Businesses incorporated Science Based Targets to drive ambitious ER

10+

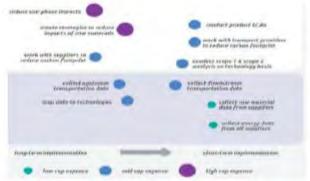
Businesses working increasing >50% RE in the energy mix



non Unancinges / issues..



Fraining & Capacity



Lack of availability of Benchmarks, Emission Factor data etc.





st of doing Inventories, ice, Reporting etc.



Engagement during policy development

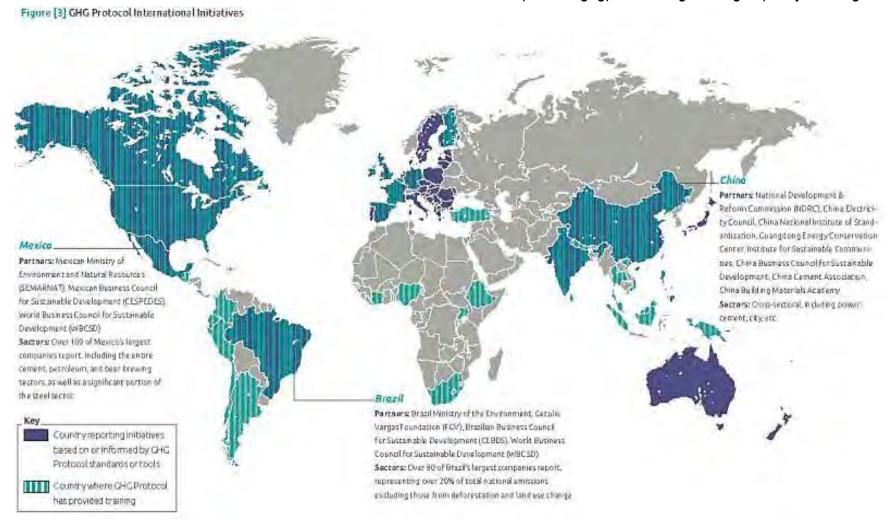
Thereby N Collaborat Programs





Regional Programs based on the GHG Protocol

http://www.ghgprotocol.org/training-capacity-building





Mexico & Brazil



Launched in 2006 with Partners

- Mexican Ministry of Environment & Natural Resources
- Mexican BCSD / WBCSD

More than 120 active members, out of which 15 were founding member companies.

The program therefore accounts for around 80% of the total industrial emissions

Launched in 2008 with Partners

- Brazilian Ministry of Environment Getulio Vargas Foundation (FGV) Brazilian BCSD / WBCSD

More than 116 active members, including 90 of the largest companies in Brazil

These comprise of 20% of the total GHG Emissions excluding deforestation and land-use change.





USA & Malaysia



Launched in 2007

- US EPA Climate Leaders Program
 The Climate Registry

The Climate Registry launched in 2007 has about 430 active members and is the largest voluntary program globally

Mainly initiated out of California and regional alliances on a voluntary basis

Launched in Dec 2013 as MYCarbon

- Ministry of Natural Resources & Environment
- UNDP

10 companies as pilot testers, and founding members

Goal to reduce GHG Intensity per GDP by 40% compared to 2005 levels





Objectives of GHG Programmes

Programme Objectives	Australia	California	Canada	European Union	France	Japan	United Kingdom	United States
Support GHG management and mitigation	✓	✓	-	✓	✓	✓	✓	✓
Improve data quality & consistency	✓	✓	✓	✓	-	-	✓	√
Inform existing policies, market mechanisms and national inventories	✓	✓	✓	✓	✓	✓	✓	✓
Provide information to stakeholders	✓	✓	✓	-	✓	√	✓	✓

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Ford Motor Company A Case Example



Go Further

Source:

http://corporate.ford.com/ microsites/sustainabilityreport-2011-12/environmentoperations-emissions Reduced Energy Consumption & GHG Emissions.







Accelerated Progress

It participates onto the National GHG
Programs based on the GHG Protocol - in
North America, Brazil,
Mexico and Philippines

Participation in GHG Programs has played an important role in accelerating GHG emission reduction activities As a result Ford reduced its overall energy consumption by 42% over and GHG emissions by 48% over the year 2000 baseline

Awarded by US EPA at Climate Leadership Awards, Exceeded CCX commitments, Recognized Energy Star Partner of the year etc.

Promon Engineering Brazil

A Case Example



Source:

http://ghgprotocolbrasil.co m.br/index.php?r=site/con teudo&id=44 Reduced Energy Consumption & GHG Emissions.





Program Participation

Awareness & Engagement

Promon Engineering joined the Brazil GHG program in 2010 seeking a new way to do engineering

Exchange of tools, methods and peer discussions allowed Promon to build awareness and engage with its employees The first inventory so prepared under the program allowed identification of scatted initiatives for GHG emissions reduction, as well as a realization that scope 3 emissions were the highest component

To participate in projects having comparatively lower GHG impact, and not otherwise.

Promoting profitable, sustainable and competitive businesses.

SIEMENS

Siemens Brazil A Case Example

Source:

http://ghgprotocolbrasil.co m.br/index.php?r=site/con teudo&id=44 Group
Sustainability
Platform.





Program Participation

Awareness & Engagement

Siemens also joined the Brazil GHG Program in 2010 with a goal of realizing the GHG inventory and create an internal "Green Team" The first inventory was prepared with the assistance of the GHG Program, as well as the "Green team was created with initially 5 and now 28 active employees

Apart from GHG Inventorisation, the program supported the Green Team, in preparing a Sustainability Program for 800 employees of the company, as well as set up an interactive innovation platform, which has encouraged more than 70 ideas to commercial successes

Odebrecht Engineering & Construction



A Case Example

Source:

http://ghgprotocolbrasil.co m.br/index.php?r=site/con teudo&id=44 Prioritized Actions & Support towards Supply Chain.



GHG Reductions & Leadership





Inventorisation & Analysis

Odebrecht participated in drafting an open letter to Brazil govt. for voluntary commitments on GHG reduction The company inventorised 117 projects and 21 offices to identify the emission profile, revealing predominance of Indirect emissions

Improved engagement with suppliers, project management support, contractors to support joint development of effective tools, guidance on business practices and external communication Achieved 10% reduction in emissions within a year, based on the mobilization and knowledge gained from the initiative.









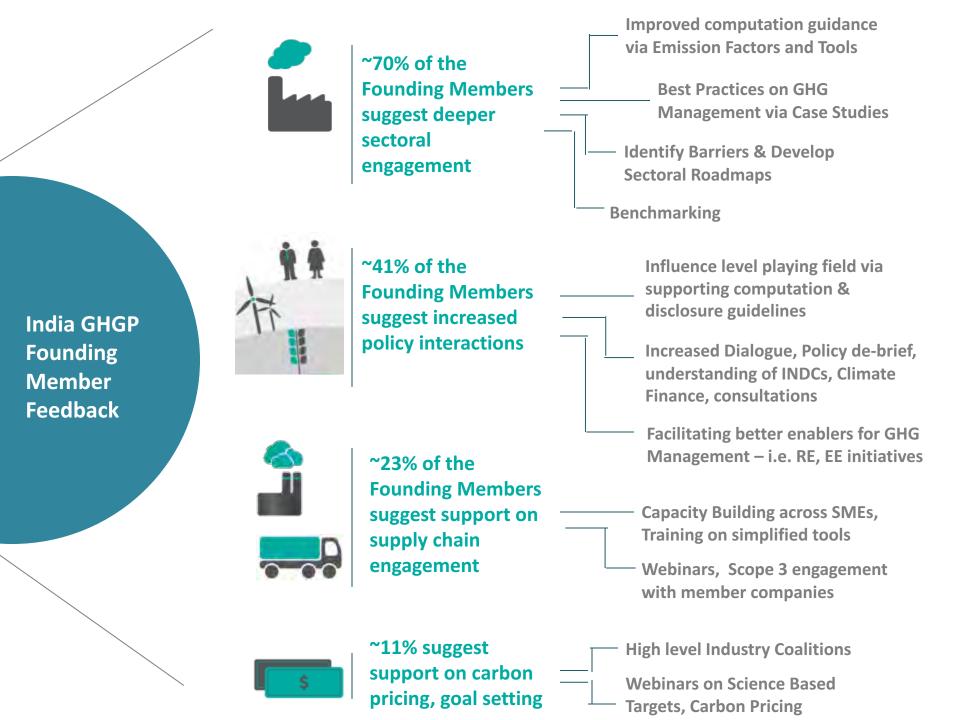
A GHG Program to Scale-up and Build Capabilities in India

Coming together of leading organizations;





For promoting Business Leadership on Climate change in India via an Industry-led, Voluntary System to Measure and Manage GHG Emissions





Pillars

India GHG Program

Program Pillars – Working with Non-state actors

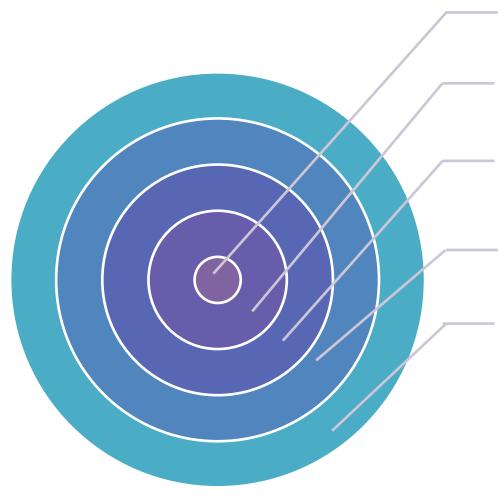
Trainings and Capacity Building

Sectoral Tools and Guidance development

Benchmarking
Peer
Interactions
Best Practices

Policy Dialogue

India GHG Program – Key Highlights



Founding Member Companies & Advisory Board.

Access to specialized expertise from WRI, TERI and CII.

Collaboration, Conversations and Competition on a single platform along with your industry/ sectoral and regional peers

Global linkages/best practices and benchmarking across other regional initiatives

Opportunity to jointly initiate a discussion with the policy makers and civil society on the business action and its challenges







Driving Ambitious Corporate Actions



Indian Railways

50%

Reductions

in transport related emissions by 2030

Mahindra & Mahindra

\$10 / tonne Carbon Price

Achieve 25% reductions in emissions

Godrej & Boyce

Carbon Neutrality

By 2020-21



Driving Ambitious Corporate Actions



Tata measure and manage grade grade and manage grade and

Internal Carbon Price

Adopted Internal Carbon Price in 2016

Delhi Airport

Achieved Carbon Neutrality

In 2016

Infosys

100% RE

Reduce emissions intensity of operations by 55.4% per employee by 2018



Milestones

