Green Rating Programs
- As a tool to monitor Green Development

Kiran Ananth
Confederation of Indian Industry
India
Green Rating Systems

- More than 400 products are certified as Green Products
  - Paints, Cement, Flyash Bricks,

- 6.33 billion ft² registered green building footprint

- 4800 Green Building Registered Projects

- 450 Companies registered
  - 147 GreenCo Certified companies (31 SMEs)
  - Vendors are encouraged to promote GreenCO in SMEs

Indian Green Building Council

Green Pro

GreenCo
Green Building Rating Systems

- Complimenting the national standards
- Covering – all aspects of building life cycles
- Energy, Water, Material, air quality, site selection, etc
- Working with Governments for promotion and adoption of Green Buildings

<table>
<thead>
<tr>
<th>Commercial</th>
<th>Residential</th>
<th>Built Environment</th>
<th>Industrial</th>
<th>Health &amp; Wellbeing</th>
<th>Education</th>
<th>Places where we stay, live, learn, work, play, transit &amp; worship - all going Green …</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. IGBC Green Interiors</td>
<td>8. IGBC Green Affordable Housing</td>
<td>14. IGBC Green Villages</td>
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<td>4. IGBC Green Campus</td>
<td>9. IGBC Green Metro Stations</td>
<td>15. IGBC Green Township</td>
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<td>5. IGBC Green Data Centres</td>
<td>10. IGBC Green Existing Metros</td>
<td>16. IGBC Green Landscape</td>
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<td>11. IGBC Green Railway Stations</td>
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Growth of Green Buildings

India – Second largest Green Building Footprint in the World!
CII – GreenCo Rating System
First of its kind in the World
The system is a framework to:

- Assess the performance
  - How green is your company?
- Provide improvement opportunities
- Achieve savings and sustain “Green” initiatives

Approach:

- Life cycle approach
- Highly performance based

Scope:

- Manufacturing / Service sector
- Unit / Facility level rating
# GreenCo Rating Framework – Version 3, 2018

<table>
<thead>
<tr>
<th>S No</th>
<th>Parameter</th>
<th>Points</th>
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<tbody>
<tr>
<td>1</td>
<td>Energy Efficiency</td>
<td>150</td>
</tr>
<tr>
<td>2</td>
<td>Water Conservation</td>
<td>100</td>
</tr>
<tr>
<td>3</td>
<td>Renewable Energy</td>
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<tr>
<td>4</td>
<td>GHG Emission Reduction</td>
<td>100</td>
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<tr>
<td>5</td>
<td>Waste Management</td>
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<td>6</td>
<td>Material conservation, Recycling &amp; Recyclability</td>
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<tr>
<td>7</td>
<td>Green Supply Chain</td>
<td>100</td>
</tr>
<tr>
<td>8</td>
<td>Product Stewardship &amp; Life cycle aspects</td>
<td>125</td>
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<tr>
<td>9</td>
<td>Innovation for Environment</td>
<td>50</td>
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<tr>
<td>10</td>
<td>Green infrastructure &amp; Ecology</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>1000</strong></td>
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</tbody>
</table>

- **Platinum** (750+)
- **Gold** (650 to 749)
- **Silver** (550 to 649)
- **Bronze** (450 to 549)
- **Certified** (350-449)
over 450 companies working on the rating
GreenCo’s Sector Spread

- Manufacturing & Engineering: 53
- SME: 48
- Indian Railways: 30
- Automobile Mfg.: 16
- Cement: 12
- Chemical & Pharma: 9
- Petrochemical: 8
- Iron & Steel: 6
- Tyre Manufacturing: 6
- Services: 6
- Pulp & Paper: 5
- FMCG: 4
- Textile: 3
GreenCo - Value Addition

Life cycle assessment studies conducted by 20 companies,
Reduced and mitigated tonnes of CO2
1150000 tonnes of CO2 eq by 31 companies
Clocked lesser transportation miles

Substituted several MW of energy from conventional sources with renewable energy
313 MW by 31 companies

Saved millions of units of electricity
377 Million units by 19 companies

Eliminated consumption of tonnes of virgin raw material & tonnes of material from reaching landfills
250000 tonnes by 20 companies

Identified alternate methods to design and manufacture products

Saved, recycled, harvested and reused millions of litres of water
16 million kilolitres by 25 companies

Green vendor development by 45 companies

90 companies reported recurring cost savings of $25 Million/year
GreenCo Rating in India's INDC

(Intended Nationally Determined Contributions)

INDIA'S INTENDED NATIONALLY DETERMINED CONTRIBUTION:
WORKING TOWARDS CLIMATE JUSTICE

ॐ श्री: शान्तिर-शान्तिक शान्ति:
पृथिवी शान्तिराप: शान्तिरोधप: शान्ति: ।

"Om dyauh śāntiś antariksam śāntiḥ prithvi śāntiḥ ēpah śāntiḥ osadhayah śāntiḥ"
-- Yajur Veda 36.17

Submitted to UNFCCC

United Nations Framework Convention on Climate Change
UNIDO features GreenCo in 50th anniversary publication
GreenCo Rating System for Monitoring Green

- Strengthens environmental Sustainability performance
  - Excellent potential to Save Energy, Water, Materials & Waste
  - Reduce Carbon emissions
  - Increase use of Renewable energy

- Understanding & implementation of Global best practices
  - Green Supply Chain
  - Product Stewardship & Life cycle management
  - Green Infrastructure & Ecology
  - Green Purchase Policy & Procurement
‘GreenPro’ Certification

- Increasing demand for Green Products from Green Buildings & GreenCo Rating programs
- GreenPro - Products certified based on ‘Life Cycle’ approach
  - Raw materials
  - Manufacturing Process
  - Product Performance
  - End of Life Management
- Enables Industry to choose right products and materials
Product Categories in GreenPro

Existing Categories

**Building Products**
1. Paints & Coatings
2. Insulation
3. Plasters
4. Furniture
5. Tiles
6. False Ceiling
7. Construction Blocks
8. Cleaning Chemicals
9. Panels & Boards
10. High Performance Glass
11. Shading System Building Materials
12. Wood Composite
13. Cement
14. Ready Mix Concrete (RMC)
15. GGBS
16. Construction Chemicals
17. Construction Aggregates
18. Technology Solutions
19. Innovative Green Building Technologies

**Building Products**
1. Aluminium
2. Steel & TMT Bars
3. Plumbing Fixtures
4. Roofing Solutions

**Electrical Products**
5. Lighting Luminaires
6. Appliances
7. Packaged HVAC Systems
8. Rechargeable Batteries

**Industrial Products**
9. Lubricants
10. Degreasers
11. Coatings
Progress made so far...

<table>
<thead>
<tr>
<th>Architectural Products</th>
<th>Boards &amp; Plaster</th>
<th>Cement</th>
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<tbody>
<tr>
<td>HunterDouglas</td>
<td>Gyproc</td>
<td>ACC</td>
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<table>
<thead>
<tr>
<th>Construction Blocks &amp; Panels</th>
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<td>Armstrong</td>
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<thead>
<tr>
<th>Construction &amp; Cleaning Chemicals</th>
<th>Glass Products</th>
<th>Interior</th>
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<tbody>
<tr>
<td>Exam Eco Solutions</td>
<td>Haylide</td>
<td>Asahi India Glass Ltd.</td>
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<td>green build</td>
<td>HINDCON Chemicals</td>
<td>Saint-Gobain</td>
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<thead>
<tr>
<th>Ground Granulated Blast Furnace Slag</th>
<th>Innovative Products</th>
<th>Low Density Aggregate</th>
<th>WPC Products</th>
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<tbody>
<tr>
<td>TATA Steel</td>
<td>eden</td>
<td>Think Hi</td>
<td>Shubwood</td>
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| JSW Cement                          | innovations that work. | ru
| start strong, grow stronger.        |                     |                       |

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<tr>
<th>IAQ</th>
<th>Insulation Products</th>
<th>Tiles</th>
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<tr>
<td>apure</td>
<td>Honeywell</td>
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<td>Sterling &amp; Wilson</td>
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<td>AkzoNobel</td>
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<td>NIPPON PAINT</td>
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<td>Panache</td>
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<td>Surfa Coats</td>
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<td>Wallcare</td>
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Supporting Council and Organisations

IGBC
GreenPro

Over 375 Certified products available for Green Buildings

3-5 OCTOBER 2018 BANGKOK, THAILAND
GreenPro part of GEN

- GreenPro accredited by Global Ecolabelling Network (GEN)
  - GreenPro standards at par with other International Rating Programs
  - Mutual recognition
    - 27 Ecolabels, 60 countries
  - International market opportunities for GreenPro certified products
Market Transformation towards Green...
To sum up ...

• Green Ratings at company level
  – Bottom-up approach
  – Enables measurement, improvement & change
• Can be scaled up to national level
  – Endorsement by regulators
  – Procurement – public & private
• Voluntary in nature
  – Less regulatory costs, larger focus on improvement