Advancing Green Agenda in Singapore

Lee Siew Eang, Technical Coordination Committee, SGBC; Department of Building, NUS
Green Agenda

- Carbon emission reduction
- Pollution avoidance
- Resource efficiency
Green Agenda

BCA GREEN MARK

Carbon emission reduction + Pollution avoidance + Resource efficiency
The SGBP Criteria

- Energy Efficiency
- Water Efficiency
- Resource Efficiency
- Carbon Emission Mitigation
- Pollution Avoidance

Whole Life Approach

- Raw Material production
- Maintenance
- Demolition and Disposal
- Installed Product
- Manufacturing
SGBP – Task Forces & Product Groups

- Water treatment and management
- Furniture
- Fire Protection
- Materials and Systems
SGBP Certification

<table>
<thead>
<tr>
<th>Products with Established Criteria</th>
<th>Development Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>35</td>
<td>136</td>
</tr>
</tbody>
</table>
Product Certification with Criteria

- Mechanical: 29%
- Electrical: 5%
- Concrete & Structural: 18%
- Façade & Roofing: 18%
- Interior System: 13%
- Finishes: 17%
Product Certification under Development Category

- Mechanical: 28%
- Electrical: 6%
- Concrete & Structural: 22%
- Façade & Roofing: 13%
- Interior System: 22%
- Finishes: 6%
- Others: 3%
Green Services Certification

- Trained Personnel in sustainability design and technology
- Tools and technologies
- Sustainability achievements
- Environmental management certification
- Contributions as green advocate

- Architecture
- Engineering
- QS and Project Managers
- Environment Sustainability Design Consultants
- Interior Designers
- Landscape Architecture
Conferences, Seminars and Workshops…

Members’ Evening (with Lutron) in Mar 2010

Product Certification Development in Mar 2010

Members’ Networking Session at WCS in Jun 2010

SGBC, IGBC & BEX Asia Tradeshow in Sep 2010

Members’ Tradeshow at Beijing Mar 2010

Members’ Tradeshow at Glasstech Asia in Jun 2010

SGBC-DLS Seminar in Jul 2010

Study Mission to US Greenbuild in Nov 2010
Growing Green Building Business…

SGBC Members’ Evening – joint event with Trane

SGBP Certification Awards ceremony

SGBC Members’ Evening – joint event with 3M

Singapore Pavilion by SGBC at BEX Asia 2011
Taking SGBP to the markets with agencies’ support
20 Schools in Singapore will be wired for energy management by Green Ambassadors appointed by schools. This is a SGBC’s initiative supported by a US$100,000 IBM grant under the Smarter Planet programme. The programme instrument up 20 schools, engaged professionals and induct students into the green movement.
SGBP is the product by the Green Advocates

- Inculcate Green Building awareness through talks and projects
- Forge alliances to promote collaborations and green building R&D

Project Green Insights briefing
@ ITE College East

MOU Signing with Singapore Business Federation, JTC, Housing Development Board and BeiJing Construction Decoration Association
The Future: Do we have a road map?

<table>
<thead>
<tr>
<th>Systems</th>
<th>Buildings</th>
<th>Township</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC</td>
<td>Energy Smart Building</td>
<td>Sustainable Infra-structure</td>
</tr>
<tr>
<td>Facades</td>
<td>Net Zero Energy Bldg</td>
<td>Eco Precinct</td>
</tr>
<tr>
<td>IBMS/Informatics</td>
<td>Carbon Neutral Bldg</td>
<td>Smart Community</td>
</tr>
</tbody>
</table>

Researchers | Practitioners | Regulators

Local | Tropics | International

Energy Efficiency | Low Carbon | Energy Option

Policies | Technologies | Life Style
Green and Energy Efficiency is not everything

- Livable City
- Green Building
- Integrated Performing Building

Related topics:
- Livable City
- New Economic Sector
- Remote monitoring Management
- Capacity Development
- New Disease
- Building Intelligence
- Research and Development
- Universal Access and Aging
- Cost and Affordability
- Security and Protection
- Institutional renewal
- Green Building
- Industry Development
- Building Performance
- Industry Development
- New Disease
- Building Intelligence
- Research and Development
- Universal Access and Aging
- Cost and Affordability
- Security and Protection
- Institutional renewal
- Green Building
Thank You