GREENING MALAYSIA ONE BUILDING AT A TIME

GREENBUILDINGINDEX

Malaysia's International Green Benchmark

GREENBUILDINGINDEX

Green Buildings & Parks World 2015
4 August 2015
SECURITIES COMMISSION (Hijjas Kasturi Associates, 1999)
L E O  L O W E N E R G Y O F F I C E

green building
Malaysia Energy centre (Ruslan Khalid Associates, 2007)
- Individual Developer Clients
- Confusion in the industry and to the consumers
- Outflow of investments

PAM (Malaysian Institute of Architects)

- September 2008
- Malaysia's national green building rating
- International benchmark for public, industry, governments

BUILDING INDUSTRY PRESIDENTS COUNCIL (BIPC)

- Developers
  - Contractors
  - Town Planners
  - Interior Designers
  - Surveyors
  - Engineers
  - Architects

PAM + ACEM (Association of Consulting Engineers Malaysia)

- With the endorsement of BIPC
Indoor Environment Quality
Sustainable Site Planning & Management
Material & Resources
Innovation
Water Efficiency
Energy Efficiency
Low Carbon Cities

Urban Environment

Urban Transportation

Urban Infrastructure

Green Building Index

BoonCW

20150804
THE GBI ASSESSMENT PROCESS

PRE-REGISTRATION CONSULTATION
- Optional

APPLICATION & REGISTRATION

Design Assessment (DA)
- Provisional Certification

PROVISIONAL CERTIFICATE
- Due for CVA 12 months after completion, or after 50% occupancy, whichever earlier.
- Valid 3 years

COMPLETION & VERIFICATION ASSESSMENT (CVA)
- Final Certification

FINAL CERTIFICATE
- Valid for 3 years
- Green Cost Assessment (Optional)

FINAL CERTIFICATE RENEWAL

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NEW LIFE FOR OLD PLUGGING THE LEAKS IN EXISTING BUILDINGS

GBI ASSESSMENT CRITERIA FOR NON-RESIDENTIAL EXISTING BUILDING (NREB)

FIRST EDITION | JANUARY 2011 | VERSION 1.1
GREEN FACTORIES

GBI INDUSTRIAL NEW CONSTRUCTION (INC) &
GBI INDUSTRIAL EXISTING BUILDING (IEB)
RATING TOOLS

7 June 2011
Driven by PPK
Malaysia Shopping Malls Association

NON-RESIDENTIAL NEW CONSTRUCTION (NRNC): RETAIL
NON-RESIDENTIAL EXISTING BUILDING (NREB): RETAIL
With Malaysia Association of Hotels

GREEN BUILDING INDEX
HOTEL & RESORT TOOLS

LAUNCHED 27th FEBRUARY 2014

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With Ministry of Health

PUBLIC HEALTH

INDUSTRY CONSULTATION
Scheduled to launch in 2015
<table>
<thead>
<tr>
<th>Property Types</th>
<th>Non Residential &amp; Industrial New Construction</th>
<th>Non Residential &amp; Industrial Existing Building</th>
<th>Residential New Construction</th>
<th>Township</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public/Private Office</td>
<td>Government Office</td>
<td>Private Office</td>
<td>Strata – High Rise</td>
<td>23ac</td>
</tr>
<tr>
<td>6-star/3-star/Boutique/Heritage Hotel</td>
<td>Data/Logistic Distribution Centre</td>
<td>Shop Office</td>
<td>Low Rise</td>
<td>- 3,335ac</td>
</tr>
<tr>
<td>Convention Centre/University/Schools</td>
<td>State Art Gallery/Shopping Malls</td>
<td></td>
<td>Landed – Detached Semi-D Terrace</td>
<td></td>
</tr>
<tr>
<td>Fast food outlet</td>
<td>Warehouse</td>
<td>Shop Office</td>
<td>Individual Home</td>
<td></td>
</tr>
<tr>
<td>Toll Plaza</td>
<td>Hospital</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Factory</td>
<td>Airport</td>
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<td></td>
</tr>
<tr>
<td>Market</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Recognising & Honouring
Malaysia’s Top 30 Green Catalysts

Presented By
Malaysian Green Technology Corporation

29 January 2015
The Majestic Hotel Kuala Lumpur

A key driving force in transforming Malaysian buildings to be more eco-friendly, and for achieving the significant milestone of 100 million square feet of certified green buildings.
## Executive Summary as of 15 July 2015

### GBI Certified Projects by Category

<table>
<thead>
<tr>
<th>Update on Green Building Index</th>
<th>Applied</th>
<th>Registered</th>
<th>Total Certified</th>
<th>Provisional Certification after DA</th>
<th>Final Certification after DA</th>
<th>Renewal Certification after DA</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRNC</td>
<td>353</td>
<td>326</td>
<td>151 (44%)</td>
<td>128</td>
<td>22</td>
<td>1</td>
</tr>
<tr>
<td>RNC</td>
<td>266</td>
<td>255</td>
<td>132 (44%)</td>
<td>118</td>
<td>14</td>
<td>0</td>
</tr>
<tr>
<td>INC</td>
<td>20</td>
<td>19</td>
<td>6 (2%)</td>
<td>2</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>NREB</td>
<td>20</td>
<td>19</td>
<td>10 (3%)</td>
<td>7</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>IEB</td>
<td>4</td>
<td>3</td>
<td>2 (1%)</td>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>T</td>
<td>14</td>
<td>14</td>
<td>7 (2%)</td>
<td>7</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total as of 15 July 2015</strong></td>
<td>677</td>
<td>636</td>
<td>308 (100%)</td>
<td>262</td>
<td>45</td>
<td>1</td>
</tr>
</tbody>
</table>

### GBI Certified Projects by Rating Categories

<table>
<thead>
<tr>
<th>Rating</th>
<th>NRNC</th>
<th>RNC</th>
<th>INC</th>
<th>NREB</th>
<th>IEB</th>
<th>T</th>
<th><strong>Total as of 15 July 2015</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Platinum</td>
<td>8</td>
<td>4</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>14 (5%)</td>
</tr>
<tr>
<td>Above 66 Points</td>
<td>44</td>
<td>25</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>72 (23%)</td>
</tr>
<tr>
<td>Gold</td>
<td>18</td>
<td>12</td>
<td>1</td>
<td>2</td>
<td>-</td>
<td>2</td>
<td>35 (11%)</td>
</tr>
<tr>
<td>Silver</td>
<td>81</td>
<td>91</td>
<td>4</td>
<td>6</td>
<td>2</td>
<td>3</td>
<td>187 (61%)</td>
</tr>
<tr>
<td>Certified</td>
<td>151</td>
<td>132</td>
<td>6</td>
<td>10</td>
<td>2</td>
<td>7</td>
<td>308</td>
</tr>
</tbody>
</table>

### Gross Floor Area (GFA) of GBI Certified Buildings

- NRNC: 5,218,024.24 GBI Certified GFA (Sqm)
- RNC: 6,983,473.71 GBI Certified GFA (Sqm)
- NREB: 899,762.88 GBI Certified GFA (Sqm)
- INC: 92,710.51 GBI Certified GFA (Sqm)

**Total as of 15 July 2015:** 13,214,602.14 (142,240,793.63sqft)

### Carbon Dioxide (CO2) Emission Reduction of GBI Certified Buildings

- NRNC: 414,487.72 CO2 (Sqm)
- RNC: 179,505.33 CO2 (Sqm)
- NREB: 76,390.67 CO2 (Sqm)
- INC: 6,865.33 CO2 (Sqm)
- IEB: 1,720.29 CO2 (Sqm)
- Total: 679,169.34 CO2 (Sqm)

**CO2 Emission Reduction:** (1CO2e/annum, based on electricity energy reduction only @ 1kWh = 0.741 kg CO2 - Peninsular / 0.872 kg CO2- Sarawak / 0.546 kg CO2 - Sabah)
Over 2,300 candidates trained in 25 intakes in Malaysia and regionally since May 2009

- Basic course being included in tertiary syllabus
- Towards Self-certification for Certified Level
774 GBI Facilitators Registered

- Architects (600) 29%
- Engineers (1,035) 49%
- Other Building Professionals (217) 10%
- Manufacturers etc. (184) 9%
- Developers & Managers (64) 3%
Commissioning Specialists
21 CxS Registered
greenbuilding index

Professional Series

- In partnership with National Professional Organisations
Consultation

Fortnightly

Pre-registration
General Enquiry
Preliminary Consultation for Prospective Applicant

Post-registration
Design Assessment Consultation
Completion and Verification Consultation
www.greenbuildingindex.org
REAL ADVOCATE GREEN BUILDING RATING

GREEN BUILDING INDEX
B O O N C W
2 0 1 5 0 8 0 4
INCENTIVES FOR BUILDINGS OBTAINING GREEN BUILDING INDEX CERTIFICATE

A) TAX EXEMPTION
- Any person who incurs qualifying expenditure (QE) to obtain GBI certification for a building used for his business qualifies for tax exemption. This tax incentive provides exemption on the statutory income which is equivalent to 100% of that expenditure.
- Qualifying expenditure means an additional expenditure (known as the Green Building Cost Sum) incurred in relation to construction of a building, alteration, renovation, extension or improvement of an existing building. The exemption can be up to 100% of statutory income for each year of assessment.
- Any unutilised QE can be carried forward to subsequent years of assessment until the amount is fully exempted. This tax exemption only applies once for each building certified from 24 October 2009 until 31 December 2014.
- The types of tax incentive mutually exclusive to this tax exemption are addressed in the guidelines issued by Lembaga Hasil Dalam Negeri Malaysia (LHDNM).

B) STAMP DUTY EXEMPTION
The stamp duty exemption provides exemption on instruments of transfer of ownership of buildings and residential properties acquired from property developers and awarded GBI certificate. The exemption is on the additional cost of the property incurred to obtain the GBI certificate. The exemption is only given for the first transfer of ownership of the building and for sales and purchase agreements executed from 24 October 2009 until 31 December 2014.

Once certified, applicants can claim for the tax exemption or stamp duty exemption in their annual Income Tax return Forms. The GBI Certificate has to be kept for audit purposes by LHDNM.
Please note that a complete set of guidelines on the tax and stamp duty exemption can be obtained from www.hasil.gov.my.
Platform for Implementation of National Benchmarks

- Local Authorities’ Structure Plans and Local Plans
- Uniform Building Bye Laws
- MS1525 Code of Energy Efficiency
- Rainwater Harvesting
- Industrialised Building System (IBS)
- Urban Storm Water Drainage (Manual Saliran Mesra Alam, MASMA)
- Malaysian Timber Certification Scheme (MTCS)
VOLUNTEERS

Green Building Index Accreditation Panel
Green Building Index Technical Committee
Green Building Index Working Group
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