Ikatan Arsitek Indonesia

Country Report on
Green and Sustainable Architecture

Prasetyoadi (Tiyok), IAI
Jaipur, 23 May 2017
IAI – Status Update

• Established Green Building Department in 2010
• IAI has included sustainable and green architecture in trainings, CPD (continuous professional development) and basic criteria for design competitions
• Memorandum of Understanding between IAI and GBC Indonesia in 2010
• IAI and Green Building Council Indonesia developed Greenship Homes rating system. The is website: www.greenshiphomes.org
• The rating is web based and free to use online
• The certification will be issued by Green Building Council if necessary
• The website is in operation on 2014
• Supporting Local Government to develop local green building regulations
• Green and Sustainable Architecture is now under Department of Research Development IAI
Green Building in Jakarta

- Jakarta Governor Decree No. 38/2012
- It is enforced since 2013 through Architecture Review Board
- The results up to May 2016
  - Applied to 260 buildings, approx. 15 million m²
  - Energy Saving: 853,914 MWh/year
  - CO₂ emission reduction: 605,425 Ton/year
    - Cost Saving of approx. USD 68,313 million/year
  - Water use Reduction of 25-30%
Collaboration IFC – IAI – GBCI

- Developing Green Building Module with Universities
- Knowledge of Sustainable Building Sharing as part of CPD
- CEO workshop of Top 15 Architecture Firm
- Public Housing Design Competition
- Architect’s Convention in Makassar on 8 April 2017 between IAI and IFC-GBCI
**Savings (GREENSHIP EB)**
As Per January 2017

<table>
<thead>
<tr>
<th>Item</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor Area</td>
<td>451,781m2</td>
</tr>
<tr>
<td>Energy</td>
<td>20,294,449KWH</td>
</tr>
<tr>
<td>CO2 Emission</td>
<td>18,082Ton</td>
</tr>
<tr>
<td>Water</td>
<td>264,014,102Liter</td>
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</tbody>
</table>

**Design and Target Savings (GREENSHIP NB-DR & NB-FA)**
Per January 2017

<table>
<thead>
<tr>
<th>Item</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Floor Area</td>
<td>1,146,701m2</td>
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<tr>
<td>Energy</td>
<td>96,635,043KWH</td>
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<tr>
<td>CO2 Emission</td>
<td>85,966Ton</td>
</tr>
<tr>
<td>Water</td>
<td>820,295,522Liter</td>
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</tbody>
</table>
GREENSHIP Homes Self Assessment

- Luas Lantai Bangunan Rata-rata (m²): 169
- Luas Lantai Bangunan Total (m²): 4234
- Luas Tanah Rata-rata (m²): 791
- Luas Tanah Total (m²): 20568
Greenship Sustainable Neighbourhood
World GBC and its members who are in The Global Alliance for Buildings and Construction that were launched in COP21. These commitments are:

- Reduce the Global temperature raise by 2°C

- Reducing CO2 emission from building and construction sector to 84 Gigaton

- Ensuring every buildings to have Net Zero Emission
Better Places for People

This is a global campaign program that inform the health effect and improve life quality for green building occupant.

All information about Health & Wellbeing could be accessed from this following website www.betterplacesforpeople.org.
The Business Case For Green Building

Asia Pacific program to attract investment in Asia Pacific to finance Green Building Development

GBC Indonesia, Malaysia GBC, and Vietnam GBC will be the pilot projects
Asia Pacific Award showcasing the pioneer of green building in the region.
ANALISA TAPAK
Kondisi Eksisting
ANALISA TAPAK
Bangunan yang akan dihilangkan
Pada konsep ini, kawasan Telkom Corporate University akan diusulkan sebagai kawasan yang bersahabat dengan pejalan kaki, dengan merevitalisasi jalanan existing menjadi area pejalan kaki.

Kantong parkir disediakan untuk mengakomodir kendaraan bermotor di area utara dan selatan. Area depan kawasan direvitalisasi dengan membuka plaza dan program baru berupa komersial dan hotel.
Thank You