A Discussion on the Benefits of Environment Performance of the Promotion of Kaohsiung Green Building Specialties Policy

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Flood

Meinung town in Kaohsiung county

Drought

Zengwun Reservoir
To respond the changes of global climate

Think Locally · Act Globally

Faced at the problems of high carbon emission, alternations of floods and droughts, the air pollution of PM 2.5
Reflection on the relationship between architecture and environment
Problem solving resolution---Kaohsiung Housing project

Orange Building

The first Version
Innovative vision

The Second Version
Orange + Green Building

The Third Version
New Building X New Energy X Orange Buildings

The Fourth Version
International Exchange--signed a cooperation agreement with Japan Osaka, Singapore, the Netherlands and other five cities
The apartment fires caused 17 casualties. In order to escape, the child fell on the house shelter.
Kaohsiung Housing project

Green + Orange Building
Vertical forest in Kaohsiung

Landscape balcony with vertical forest

Milnao

Now

Image Source: http://dataroom.tw/archicake/upload/

Heat Island Effect
Escape Refuge
Energy Saving & Carbon Reduction
Quality Life
City View
<table>
<thead>
<tr>
<th>Executive Summary</th>
<th>Reach rate 2012 to 2017</th>
<th>Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Total carbon reduction</td>
<td>Reduce carbon 5,045tons</td>
<td>11.65 million trees carbon fixation</td>
</tr>
<tr>
<td>2. Building rainwater collection and storage</td>
<td>Storage339,290m³</td>
<td>Approximately 180 international standard pools</td>
</tr>
<tr>
<td>3. Solar photoelectric energy</td>
<td>Set up18,611kWp</td>
<td>About 17.9 seats in the Kaohsiung National Stadium</td>
</tr>
<tr>
<td>4. All-age appropriate space</td>
<td>It has 17,673 residential use for universal bathroom design</td>
<td></td>
</tr>
<tr>
<td>5. Vertical greening volume</td>
<td>total265,139m²</td>
<td>About 40 international standard football fields area</td>
</tr>
</tbody>
</table>
Kaohsiung Housing project

4 years to set 150 million Mega Watt
• 2015/22.5 million kWh electricity
• 2016/30 million kWh electricity
• 2017/45 million kWh electricity
• 2018/52.5 million kWh electricity

Kaohsiung Megawatts(MW) Photoelectric Project

Increase energy
208 million kWh electricity

Reduce carbon
13.23 million tons
The Third Version

Kaohsiung Housing project

- Homes Shelter
- 3D Garage
- Vertical Greening
- Smart Life Technology
- Experimental Building
- Full Age Facility
- Building Production Records

KAOHAUS GO
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Warmly welcome you to visit Kaohsiung!

Thank You for Listening

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