The BMA’s Initiatives in Alleviating Global Warming in Bangkok

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UN has estimated that the global temperature will be increased 2-4 degree Celsius in average resulted in the sea level rise by 20-50 cm in the next 10-50 years.

Bangkokians are more aware of the issue due to evidence in climate change i.e. more hot days, floodings, and rainstorms.

Bangkok residents (12 mil) annually consume:
- 206 mil. kilowatts of electricity.
- 34 mil. liters of oil.
- 400,000 liters of gasohol.
- 25000 kg. of natural gas.
## Comparison of Greenhouse Gases Released from Various Sectors in Thailand and Bangkok

<table>
<thead>
<tr>
<th>Sectors</th>
<th>Thailand (million tons CO₂)</th>
<th>Bangkok (million tons CO₂)</th>
<th>Percent (Bangkok : Thailand)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy</td>
<td>193</td>
<td>73</td>
<td>38 %</td>
</tr>
<tr>
<td>Agriculture</td>
<td>83</td>
<td>&lt;1</td>
<td>&lt;1 %</td>
</tr>
<tr>
<td>Industry</td>
<td>19</td>
<td>3</td>
<td>16 %</td>
</tr>
<tr>
<td>Waste</td>
<td>27</td>
<td>6</td>
<td>22 %</td>
</tr>
<tr>
<td>Alteration in Land Use</td>
<td>22</td>
<td>&lt;1</td>
<td>&lt;1 %</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>344</strong></td>
<td><strong>82</strong></td>
<td><strong>24 %</strong></td>
</tr>
</tbody>
</table>

Bangkok Metropolitan Administration
The joint conference between public and private organizations

- Take place during 2 - 3 May 2007 at Bangkok City Hall.
- Participating Organizations: the Ministry of Energy, the Department of Land Transport, Chulalongkorn University, the Federation of Thai Industries, the Metropolitan Electricity Authority, etc.
- To discuss ways of alleviating the global warming problem in Bangkok.
Measures for Alleviating Global Warming in Bangkok

1. Energy reduction and control
2. Car pool and bicycle uses
3. 3R Waste Reduction (Reuse, Reduce, Recycle)
4. Avoiding Non-recyclable Products
5. Daily Life Activities
6. Improvement of consumption habits
7. Others, such as planting trees, promoting walking instead of using vehicles
Cooperation with Public/Private Organizations in Alleviating the Global Warming

- On 9 May 2007 at UN Building in Bangkok, 36 Organizations jointly signed the “Bangkok Declaration” for the Cooperation on alleviating the global warming.
- Five highlighted ways to mitigate global warming:
  1. Reduce energy consumption.
  2. Reduce GHG emissions.
  3. Promote sufficiency economy lifestyle.
  4. Promote helpful activities.
  5. Build public awareness.
Activities for Alleviating the Global Warming

Take place on Wednesday 9 May 2007, at downtown Bangkok

- Exchange of incandescent and compact fluorescent lamps.
- Energy saving exhibition.
- Public screening of “An Inconvenient Truth.”
- “15 Minutes Lights Out…for our Bangkok.”
  - reduce 530 megawatts of electricity used.
  - reduce 143 tons of CO₂ emissions.
<table>
<thead>
<tr>
<th>Commencing Date</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 May 2007</td>
<td>“15 Minutes Lights out...for our Bangkok”</td>
</tr>
<tr>
<td>9 June 2007</td>
<td>Exchange old bulbs for fluorescent lamps</td>
</tr>
<tr>
<td>9 July 2007</td>
<td>Turning the engines off while parking</td>
</tr>
<tr>
<td>9 August 2007</td>
<td>Distribution of trees</td>
</tr>
<tr>
<td>9 September 2007</td>
<td>Replacing plastic bags with cloth ones</td>
</tr>
<tr>
<td>9 October 2007</td>
<td>Reducing garbage</td>
</tr>
</tbody>
</table>
BMA’s 5-Year Operational Plan for Global Warming Alleviation (2008 - 2013)

Objective: to reduce greenhouse gas emissions in Bangkok for 15%

The drafted Plan comprises 5 aspects:

1. Transportation and traffic systems development.
2. Promotion of alternative energies.
3. Development of “Green Buildings” and “Environmental Friendly Offices.”
4. Waste and water management.
5. Increase of green areas.

Bangkok Metropolitan Administration
The Announcement of BMA’s 5-Year Operational Plan

- **Launch Date:** 5 June 2007, the World Environment Day.
- **Public Participation:** by expressing comments, opinions and suggestions through BMA’s website or via fax within 30 July 2007.
- **Adoption Date:** 12 August 2007.
The End.