Common Objectives for A Successful National Climate Action Plan:
(Climate Change Master Plan 2015-50 & National Adaptation Plan)

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Office of Natural Resources and Environmental Policy and Planning
Ministry of Natural Resources and Environment
Contents

- Climate Change Consequences and Impacts to Thailand
- Thailand’s National Structure of Work on Climate Change
- Thailand’s Climate Change Master Plan (CCMP) 2015-2050
- CCMP 2015-50 in action and Implementation
Climate Change Consequences and Impacts to Thailand
## Climate Change Consequences and Impacts

### Total GHG Emissions Excluding Land-Use Change and Forestry - 2013 (MtCO$_2$e)

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country</th>
<th>MtCO$_2$e</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>China</td>
<td>11735.0071</td>
</tr>
<tr>
<td>2</td>
<td>United States</td>
<td>6279.8362</td>
</tr>
<tr>
<td>3</td>
<td>European Union (28)</td>
<td>4224.5217</td>
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<tr>
<td>4</td>
<td>India</td>
<td>2909.0566</td>
</tr>
<tr>
<td>5</td>
<td>Russian Federation</td>
<td>2199.1173</td>
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<tr>
<td>6</td>
<td>Japan</td>
<td>1353.3473</td>
</tr>
<tr>
<td>7</td>
<td>Brazil</td>
<td>1017.8745</td>
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<td>8</td>
<td>Germany</td>
<td>894.057</td>
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<td>9</td>
<td>Indonesia</td>
<td>744.3403</td>
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<td>10</td>
<td>Canada</td>
<td>738.3825</td>
</tr>
<tr>
<td>11</td>
<td>Mexico</td>
<td>733.0104</td>
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<tr>
<td>12</td>
<td>Iran</td>
<td>716.8149</td>
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<tr>
<td>13</td>
<td>Korea, Rep. (South)</td>
<td>673.5412</td>
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<tr>
<td>14</td>
<td>Australia</td>
<td>580.0997</td>
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<tr>
<td>15</td>
<td>Saudi Arabia</td>
<td>566.8181</td>
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<td>16</td>
<td>United Kingdom</td>
<td>566.2641</td>
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<td>17</td>
<td>South Africa</td>
<td>510.2377</td>
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<td>18</td>
<td>France</td>
<td>440.8485</td>
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<td>19</td>
<td>Italy</td>
<td>420.8244</td>
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<tr>
<td>20</td>
<td>Turkey</td>
<td>408.4574</td>
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<td>21</td>
<td>Ukraine</td>
<td>375.667</td>
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<tr>
<td>22</td>
<td>Thailand</td>
<td>369.431</td>
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<tr>
<td>23</td>
<td>Poland</td>
<td>361.1905</td>
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<tr>
<td>24</td>
<td>Argentina</td>
<td>334.2374</td>
</tr>
<tr>
<td>25</td>
<td>Pakistan</td>
<td>326.774</td>
</tr>
</tbody>
</table>

Source: World Resources Institute
Climate Change Consequences and Impacts


Countries most affected by extreme weather events (1996-2015)

<table>
<thead>
<tr>
<th></th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Honduras</td>
</tr>
<tr>
<td>2</td>
<td>Myanmar</td>
</tr>
<tr>
<td>3</td>
<td>Haiti</td>
</tr>
<tr>
<td>4</td>
<td>Nicaragua</td>
</tr>
<tr>
<td>5</td>
<td>Philippines</td>
</tr>
<tr>
<td>6</td>
<td>Bangladesh</td>
</tr>
<tr>
<td>7</td>
<td>Pakistan</td>
</tr>
<tr>
<td>8</td>
<td>Vietnam</td>
</tr>
<tr>
<td>9</td>
<td>Guatemala</td>
</tr>
<tr>
<td>10</td>
<td>Thailand</td>
</tr>
</tbody>
</table>

Note: Countries where more than 50% of the losses/deaths occurred in one year/event.

Source: Germanwatch and Munich RE NatCatSERVICE
Climate Change Consequences and Impacts

Agriculture and Food Security
Marine and Coastal Resources
Severe Natural Disaster
Bio-Diversity
Economy
Community & Settlement
Water Resources
Land-use Change
Flood/Drought
Epidemic Diseases
Forest and Eco-system
Health and Hygiene
Tourism Industry
Consequences and Impacts to Thailand: Drought

Office of Natural Resources and Environmental Policy and Planning, 2015
Consequences and Impacts to Thailand: Floods

Office of Natural Resources and Environmental Policy and Planning, 2015
Consequences and Impacts to Thailand: Mud/land Slide

Office of Natural Resources and Environmental Policy and Planning, 2015
Consequences and Impacts to Thailand: Coastal Erosion

Office of Natural Resources and Environmental Policy and Planning, 2014
Consequences and Impacts to Thailand: Heat Wave

Office of Natural Resources and Environmental Policy and Planning, 2015

http://www.unigang.com/Article/27225
Thailand’s National Structure of Work on Climate Change
Thailand’s National Structure of Work on Climate Change

National Board of Climate Change Policy
(Chair: Prime Minister) Minister of MoNRE, Minister of MoFA

Sub Nt’l Board on Policy Integration (Chair: MoNRE Perm-Sec)
Amended 2015

Sub Nt’l Board on Technical Support (Chair: ONEP Sec-Gen)
Amended 2015

Sub Nt’l Board on Negotiation (Chair: MoNRE Perm-Sec)
Amended 2015

Climate Change Coordinators (CCC)
(30 Agencies :: 19 Ministries + 11 Agencies under PM Office)
Appointed 2010

MoNRE (Perm-Sec.)
Secretary

Office of Natural Resources and Environmental Policy and Planning (ONEP)
Climate Change Management Coordination Division (CCMC)
(Policy formulation and National Focal Point)

Thai Green House Gas Organization (TGO)
Thailand’s Climate Change Master Plan (CCMP) 2015-2050
Vision 2050

“Thailand becomes a Climate Change Resilient and Low-Carbon Development Society Following Sustainable Development Pathway”

Approved by the Cabinet, July 14th, 2015
Thailand’s Climate Change Master Plan 2015-2050

Approaches

- Agriculture and Food Security
- Water Management
- Human Health
- Tourism
- Natural Resource
- Human Settlement

Climate Change Adaptation

- Research Studies and Technologies
  - CC Local Knowledge and Public Awareness

Capacity Building / Enabling Environment

- Climate Change Implementing Mechanism
  - International Collaboration/Cooperation

GHGs Mitigation and Low-Carbon Development

- Urban Management
- Power Generation
  - Agriculture
  - Forest
- Waste Management
- Transportation
- Industry
- Building Energy Consumption

Strategies

- Agriculture and Food Security
- Water Management
- Human Health
- Tourism
- Natural Resource
- Human Settlement

- Urban Management
- Power Generation
  - Agriculture
  - Forest
- Waste Management
- Transportation
- Industry
- Building Energy Consumption
CCMP 2015-50 in action and Implementation
CCMP 2015-50 in action and Implementation

CCMP 2015-2050

Drafted NAP

Local Mainstreaming (4 Pilot areas)
1. Chiang Rai Province
2. Central Chao-praya river basin
3. Udon-tani Province
4. Andaman Cluster

Ministerial Policy Integration
1. NAP-Agriculture
2. MOH
3. MOI
4. MOTS

NDC Roadmap

Energy Consumption
- Renewable Energy Development Plan 2015-2036
- Energy Conservation Plan 2015-2036
- Power Development Plan 2015-2036 (PDP2015)
- Smart Grid Development Plan 2015-2036
- Master Plan of Sustainable Transport Development & Climate Change Mitigation
- Master Plan of Industry Development 2012-2031
- Master Plan of Waste Management 2016-2021
- ETC.

Waste

IPPU

Thailand NDC Roadmap 2021-2030

Statement by H.E. General Prayut Chan-o-cha (Ret.), Prime Minister of the Kingdom of Thailand at the General Debate of the 70th Session of the United Nations General Assembly
New York, 29 September 2015

"THAILAND INTENDS TO REDUCE GREENHOUSE GAS EMISSIONS BY 20% FROM BAU LEVEL BY 2030"

The level of contribution could increase up to 25%

subject to adequate and enhanced access to technology development and transfer, financial resources and capacity building support through a balanced and ambitious global agreement under the UNFCCC
(Drafted) National Adaptation Plan (NAP): “Formulating Processes”

1. Vulnerability database
2. Vulnerability Circumstance
3. Suggestions of drafting NAP
   - Gaps and Needs
   - Priority List
   - Methodologies

Projected Vulnerability Circumstance
Vulnerability Database
Suggestions of drafted NAP

Existing Knowledge
- Royal Projects
- R & D
- Co-benefit

Technologies
- Local Participation wisdom
- Research
- Int’l projects
- Innovation
- Int’l Funded Projects
- Beliefs
- Protection and mitigation
- Government
- Recovery Plans

National Archives of
Adaptation Methods
Contribution of CCMP 2015-2050 Implementation

UNFCCC • Paris Agreement • SDG Goal# 13 • 20-Yr Nat’l Strategy • Thailand 4.0 • NESDP12 60-64 (ยุทธ์ 4) • EQM 60-64 (กรอบ 3)

CCMP 2015 - 2050

Adaptation • Mitigation • Enabling Environment

Goals

Short term • Mid-term • Long & Continual term

CCMP 2015-2050 Implementation

NDC (+MRV) • NAP (M + E) • Financial Support (country Program)

Local Mainstreaming

- Local Policies
- Provincial Development Plans
- Programs/Projects in Actions

Ministerial Policy Integration

Ministerial Strategic Plans - Action and Implementation Plans -
Thank you

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Ministry of Natural Resources and Environment

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