NATIONAL POLICY on CLIMATE CHANGE and GHG INVENTORY

Dida Gardera
Head of Information Management
gardera@menlh.go.id
**Emission Profile**

**Without LUCF**
- Energy: 50.5%
- Industry: 7.7%
- Agriculture: 13.6%
- Waste: 28.3%

**With LUCF**
- Energy: 20%
- Industry: 3%
- Agriculture: 6%
- Waste: 11%
- Peat Fire: 13%
- Land Use Change and Forestry: 47%

<table>
<thead>
<tr>
<th>Sector</th>
<th>Gg CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy</td>
<td>280,938</td>
</tr>
<tr>
<td>Industry</td>
<td>42,814</td>
</tr>
<tr>
<td>Agriculture</td>
<td>75,420</td>
</tr>
<tr>
<td>Land Use Change and Forestry (excl. peat fire)</td>
<td>649,254</td>
</tr>
<tr>
<td>Peat Fire</td>
<td>172,000</td>
</tr>
<tr>
<td>Waste</td>
<td>157,328</td>
</tr>
<tr>
<td>Removal</td>
<td>556,449</td>
</tr>
<tr>
<td>NETT EMISSION</td>
<td>1,377,753</td>
</tr>
</tbody>
</table>
Projection of Indonesia net emission: 1.38 GtCO$_2$e (2000) $\rightarrow$ 2.95 GtCO$_2$e (2020)

Key source categories are peat emission, forestry, energy and waste. Emission from peat fire was taken from van der Werf et al (2007). The figure in the charts did not include emission from liming and fertilizing.
Emission Reduction Target of 26% By 2020

Projection of Indonesia net emission:
1.38 GtCO₂e (2000) → 2.95 GtCO₂e (2020)

BAU – Business as Usual

26% (national budget)

41% (total emission reduction)

15% (internationally supported)

Year of 2020

Gton CO₂-eq
# Emission Reduction Plan

<table>
<thead>
<tr>
<th>Sectors</th>
<th>Emission Reduction Plan (Giga ton CO2e)</th>
<th>Total</th>
<th>Action Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>26%</td>
<td>15%</td>
<td></td>
</tr>
<tr>
<td>Forestry &amp; Peatland</td>
<td>0.672</td>
<td>0.367</td>
<td>• Land &amp; forest fires control, Water resources &amp; system management, Forest &amp; land rehabilitation, Industrial Forest/HTI, Communal Forest, Illegal logging eradication, Deforestation prevention</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Community empowerment.</td>
</tr>
<tr>
<td>Waste</td>
<td>0.048</td>
<td>0.030</td>
<td>• 3R strategy of waste management, Integrated waste management in urban areas</td>
</tr>
<tr>
<td>Agriculture</td>
<td>0.008</td>
<td>0.003</td>
<td>• Intro of low emission rice variety, Efficiency of water irrigation, Organic fertilizer utilization.</td>
</tr>
<tr>
<td>Industry</td>
<td>0.001</td>
<td>0.004</td>
<td>• Energy efficiency, Renewable energy utilization, etc.</td>
</tr>
<tr>
<td>Energy &amp; Transportation</td>
<td>0.038</td>
<td>0.018</td>
<td>• Bio-fuel use, High gasoline fuel standard machinery, Improvement of Transport Demand Management(TDM)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Quality of public road &amp; transportation, Demand Side Management, Energy efficiency, Development of renewable energy</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>0.767</strong></td>
<td><strong>0.422</strong></td>
<td><strong>1.189</strong></td>
</tr>
</tbody>
</table>

Ministry of the Environment
The Republic of Indonesia
PRESIDENTIAL DECREES - to address GHG emission reduction & GHG Inventory

26% Emission Reduction


Presidential Decree No. 71/2011 on Conducting National GHG Inventory
The National GHG Inventory System (SIGN) includes contributions from various ministries and institutions. Key stakeholders include:

- **Steering Committee** (High-Level Officials of line ministries)
- **Ministry of Forestry** (INCAS)
- **Ministry of Energy and Mineral Resources** (REFF Burn)
- **Local Governments** (Green Growth, etc)
- **Other sources**: PLN, PJB2, BPS, Universities, other institutions
- **Ministry of Environment**
- **Ministry of Industry** (Green Industry)
- **Ministry of Agriculture**
- **Ministry of Transportation**
- **DNPI / National Council on Climate Change**
- **Coordinating Ministry for Economy**
- **UNFCCC**
Environmental institutions at municipal/regency level

Dinas at municipal/regency level

Specific activities (single data)

SIGN Center

Governors

Environmental institutions at Provincial level

Dinas at provincial level

GHG inv. Report (Carbon profile)

National GHG inventory Report

Related ministries

GHG inv. Report (Carbon profile)

Dinas at municipal/regency level

Specific activities (single data)
Current Progress on GHG Inventory

- Capacity Building of GHG Inventory for Provincial Governments through Deconcentration Fund 2012-2013
- Preparing Third National Communication
- National Summit on Climate Change:
  - 2nd National Summit on CC: GHG Inventory and Emission Reduction (2012)
  - 3rd National Summit on CC: Preparing The Third National
MRV Process

M
• Identification
• Methodology
• Inventory for baseline
• Action plan
• Implementation
• Monitoring

R
• Baseline scenario
• Methodology
• Inventory

V
• Verification due to:
  • Baseline emission
  • Methodology
  • Inventory
  • Site visit (if necessary)
• Content of verification: (a) objectives, scope & criteria; (b) Quality Assurance; (c) Conclusion
National MRV System & Registry

- REDD+
- RAN-RAD-GRK
- Governmental Mitigation Activities (Proklim, Cleaner Industry, DME, etc)
- Other Mitigation Activities

MRV Guidelines

- Verification of MRV REDD+ Institution
- Verification by Internal/external
- Verification by Internal/external as MRV Guidelines

MRV Body and National Registration

- Registry of Mitigation Action
  - UNILATERAL (26%)
  - SUPPORT (15%)
  - Credit
  - Misc.

SYSTEM MRV

SYSTEM INVENTORY GHG NATIONAL (SIGN)

NATURAL REPORT of MRV

Registration INTERNASIONAL UNFCCC:
- Matchmaking
- Recognition

Ministry of the Environment
The Republic of Indonesia

The Ministry of the Environment of The Republic of Indonesia
Challenges

- Integrating climate change policy (Law 32/2009) at strategic level into operational level (SEA, EIA, Solid Waste Management, etc)
- Synergizing and partnership among government institutions, private sectors, and community
- Enhancing international cooperation on GHG inventory & MRV development
THANK YOU