

WG2 "Non-CO₂ Gases"

**➤ Introductory Presentation
"Time Schedule" and "Non-CO₂ Gases in Asia"**

14 July 2011, Phnom Penh, CAMBODIA
The 9th Workshop on GHG Inventories in Asia

Keizo Hirai
Greenhouse Gas Inventory Office of Japan (GIO)
National Institute for Environmental Studies (NIES)

Time Schedule

(WGIA9-WG2, Day 2, 8:30~12:00)



WG2 Presentation and Discussion at Sihanoukville

Chair: Dr. Damasa Magcale Macandog (Philippines)

Rapporteur: Mr. Atsushi Sato (Japan)

➤ 8:30~9:10

“ Time Schedule ”

“Non-CO₂ Gases in Asia based on Questionnaire- Feedback”

Presenter: Dr. Keizo Hirai (Japan)

➤ 9:10~9:45

**“Emission-Trend , Methodology and Mitigation -Measures of HFCs,
PFC and SF₆ in JAPAN“**

Presenter: Dr. Keizo Hirai (Japan)

-----Coffee Break, 15min.-----



Time Schedule

(WGIA9-EG2, Day 2, 8:30~12:00)



➤ 10:00~10:20

“Cambodia’s Greenhouse Gases Inventory for the year 2000 ”

Presenter: Mr. Phirum Am (Cambodia)

➤ 10:20~10:55

“ Emissions from Agriculture Sector in 2000, SNC Lao PDR”

Presenter: Mr. Mone Nouansyvong (Lao, PDR)

➤ 10:55~11:30

“ GHG Inventory in Myanmar, INC Report”

Presenter: Dr. Khin Lay SWE (Myanmar)

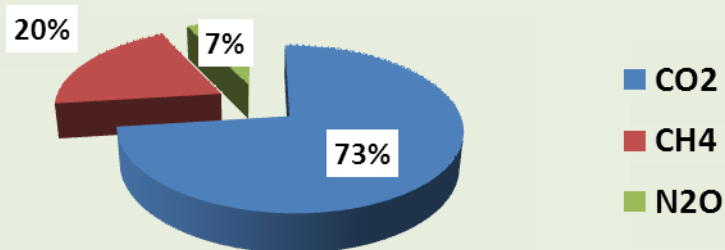
➤ 11:30~12:00

“ Discussion; Review and Future Plan”

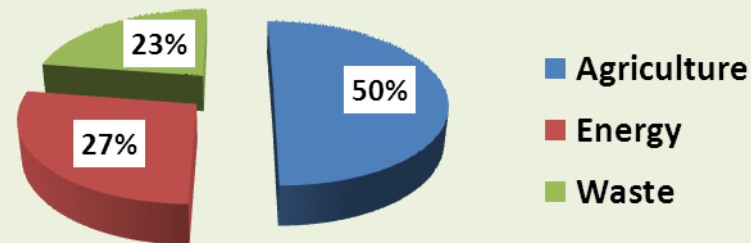


No.1 CHINA (Thank you Dr. Ma)

CO₂, CH₄, N₂O in CHINA (1994)
Non-CO₂ Total: 983,500 Gg CO₂-eq.



CH₄ by Category in CHINA (1994)
CH₄: 720,000 Gg CO₂-eq.



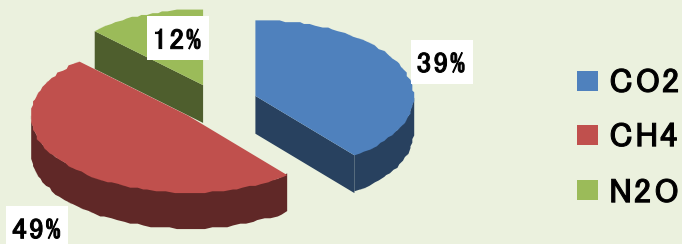
- No.1 Non-CO₂ = CH₄ / No.1 Category of CH₄ = Agriculture
No.1 Sub-Category = Enteric Fermentation
- Most Concerned Gas / Category = HFCs / Refrigeration and Air-Conditioning
- China begins to estimate HFC/PFCs/SF₆ in the SNC



No.2 VIETNAM (Thank you Mr. Nguyen)

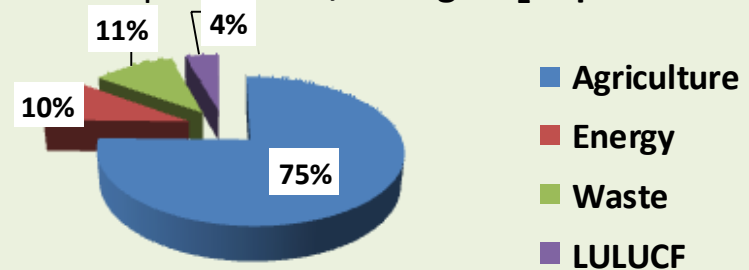
CO₂, CH₄, N₂O in VIETNAM (2000)

Non-CO₂ Total: 83,100 Gg CO₂-eq.



CH₄ by Category in VIETNAM(2000)

CH₄ Total: 66,400 Gg CO₂-eq.

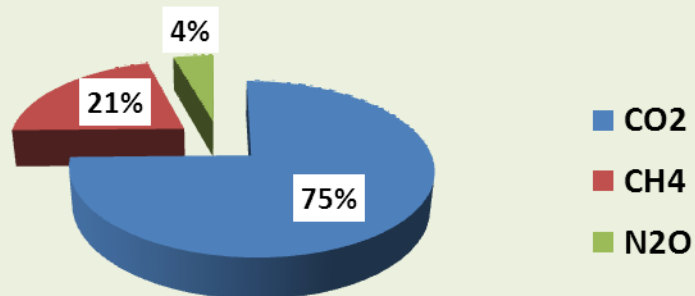


- No.1 Non-CO₂ = CH₄ / No.1 Category of CH₄ = Agriculture
No.1 Sub-Category = Rice Cultivation
- Most Concerned Gas / Category = CH₄ / Rice Cultivation
- Compared with 1994, N₂O increased 58%: The main reason is, the increase of applying chemical fertilizers to cultivation in agricultural soil.



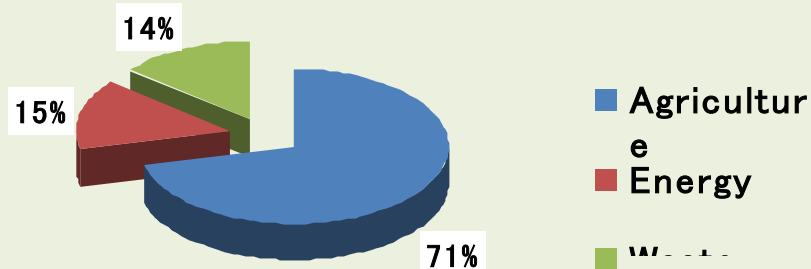
No.3 THAILAND (Thank you Dr.Emmanoch)

CO₂, CH₄, N₂O in Thailand(2000)
Non-CO₂ Total:71,200 Gg CO₂-eq.



CH₄ by Category in Thailand(2000)

CH₄ Total: 58,800Gg CO₂-eq.

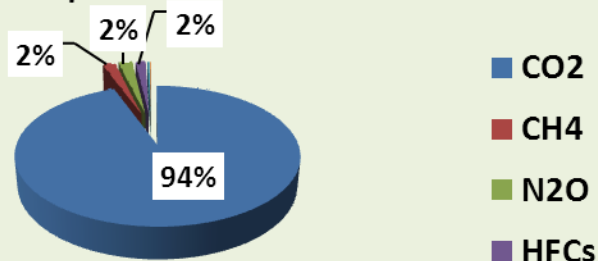


- No.1 Non-CO₂ =CH₄ / No.1 Category of CH₄=Agriculture / No.1 Sub-Category=Rice Cultivation
- Most Concerned Gas / Category = CH₄ / Rice Cultivation

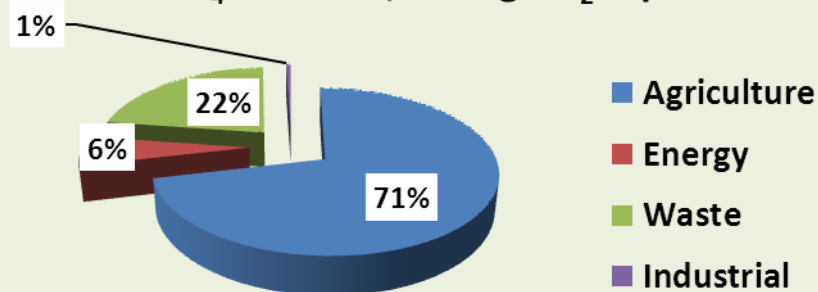


No. 4 JAPAN (presentation later)

CO₂, CH₄, N₂O, Fgases in
JAPAN(2009) Non-CO₂ Total: 64,700
Gg CO₂-eq.



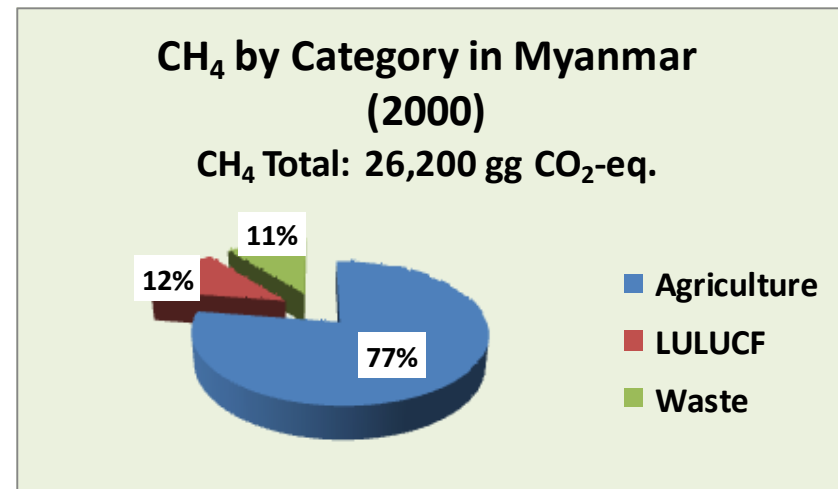
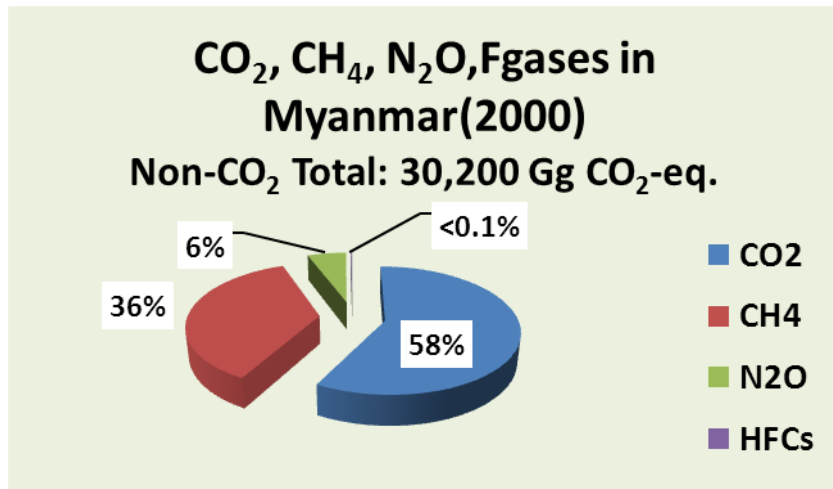
CH₄ by Category in JAPAN(2009)
CH₄ Total: 20,200 Gg CO₂-eq.



- No.1 Non-CO₂ =CH₄ / No.1 Category of CH₄=Agriculture / No.1 Sub-Category=Rice Cultivation
- Most Concerned Gas / Category = HFCs / Refrigeration and Air-Conditioning



No. 5 Myanmar (Thank you Dr. Swe for your presentation)



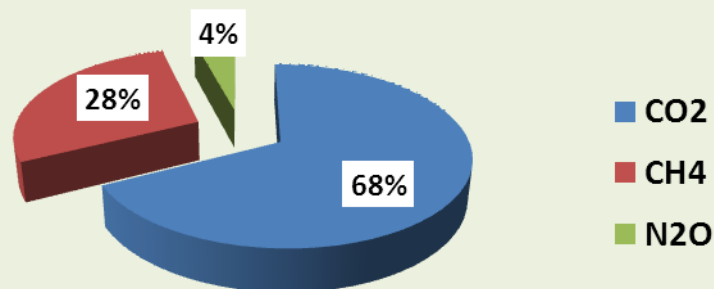
- **No.1 Non-CO₂ =CH₄ / No.1 Category of CH₄=Agriculture / No.1 Sub-Category=Rice Cultivation**
- **Most Concerned Gas / Category = CH₄ / Rice Cultivation**



No. 6 Cambodia (Thank you Mr. Am for you presentation)

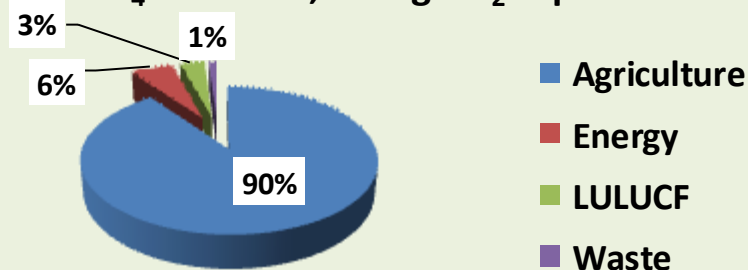
CO₂, CH₄, N₂O in Cambodia (2000)

Non-CO₂ Total: 23,500Gg CO₂-eq.



CH₄ by Category in Cambodia(2000)

CH₄ Total: 20,400Gg CO₂-eq.

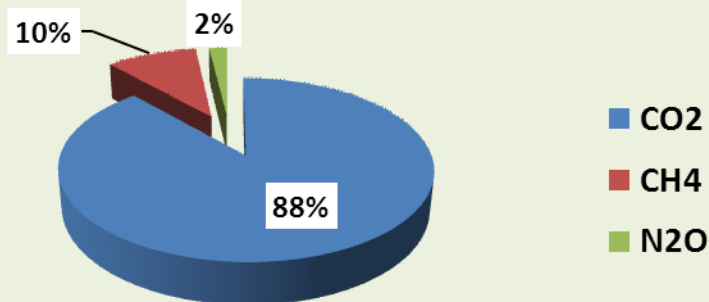


- **No.1 Non-CO₂ =CH₄ / No.1 Category of CH₄=Agriculture / No.1 Sub-Category=Rice Cultivation**
- **Most Concerned Gas / Category = CH₄ / Rice Cultivation**

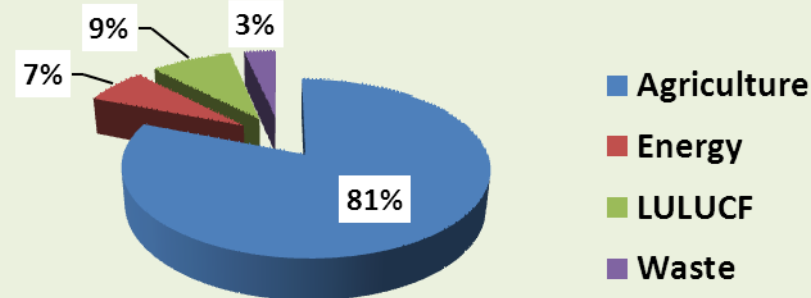


No. 7 LaO PDR (Thank you Mr. Nouansyvong for your presentation)

CO₂, CH₄, N₂O in LaO PDR(2000)
Non-CO₂ Total: 8,600Gg CO₂-eq.



CH₄ by Category in LaO PDR(2000)
CH₄ Total: 7,200Gg CO₂-eq.

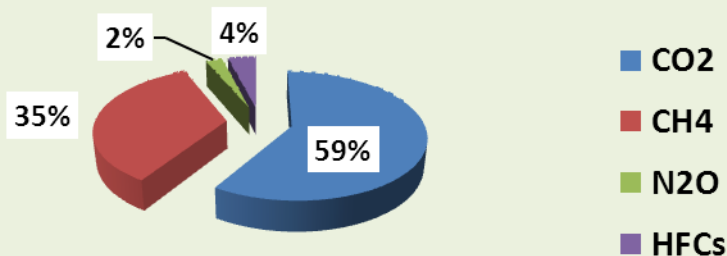


- No.1 Non-CO₂ = CH₄ / No.1 Category of CH₄ = Agriculture / No.1 Sub-Category = Rice Cultivation
- CO₂ emission is quite high in 2000 because of deforestation issue.
- Most Concerned Category = Forest Conversion

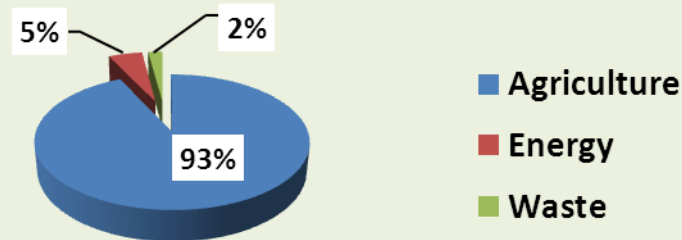


No. 8 Mongolia (Thank you Dr. Jargal)

CO₂, CH₄, N₂O, Fgases in
Mongolia(2006) Non-CO₂ Total:
7,800Gg



CH₄ by Category in
Mongolia(2006)
CH₄ Total: 6,500Gg CO₂-eq.



- No.1 Non-CO₂ =CH₄ / No.1 Category of CH₄=Agriculture / No.1 Sub-Category=Enteric Fermentation
- HFCs from “Refrigeration, Air Conditioning” is the 3rd contributor.

