

The latest version of AIM/Enduse Model

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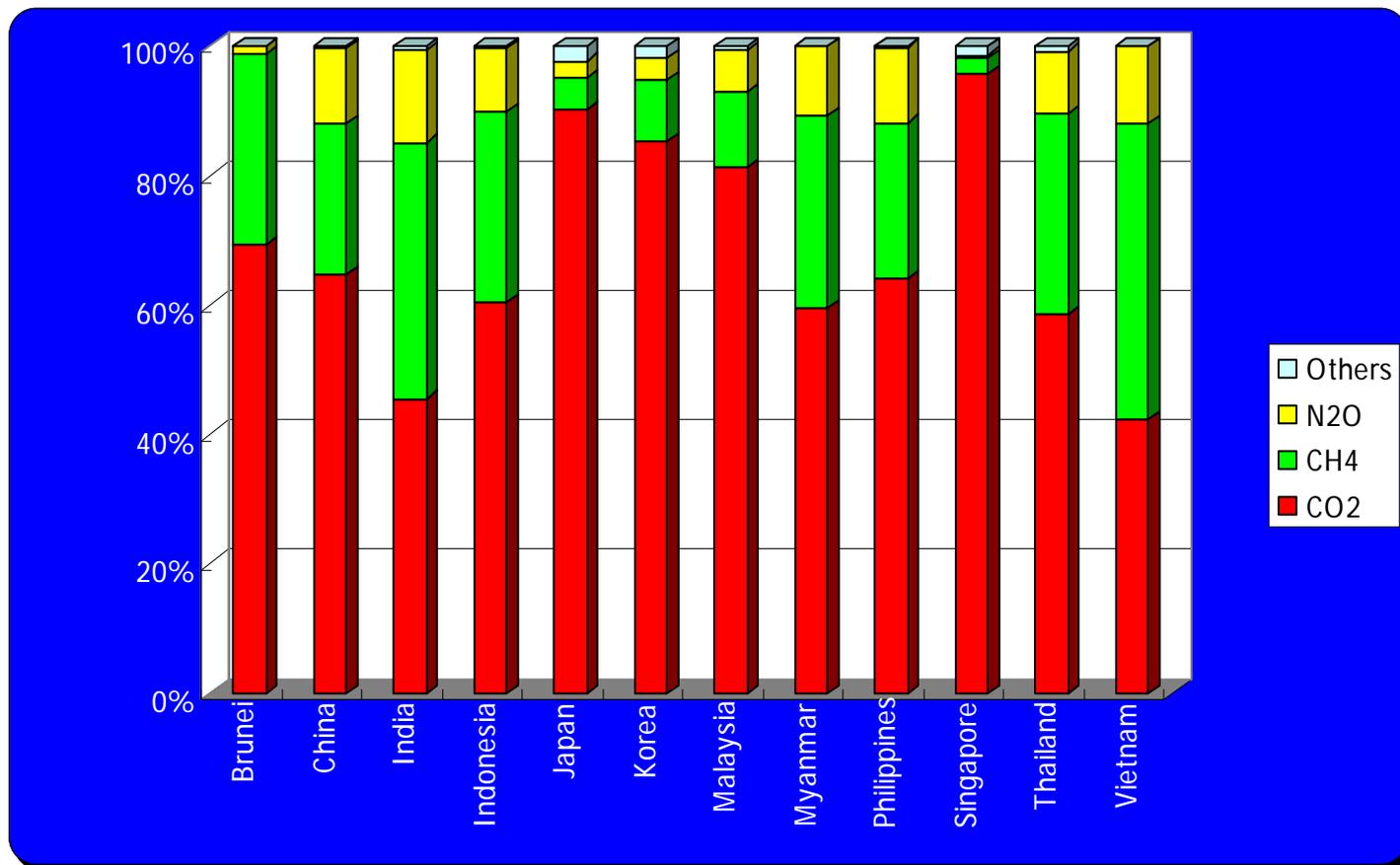
At Ohyama Memorial Hall

The latest version of AIM/Enduse Model

- 1) Module to estimate CH₄ and N₂O emission
- 2) Module to estimate PM emission and analyze the effect of removal processes.
- 3) Integrate country model and LPS/area source model
- 4) Future works

1) Module to estimate CH4 and N2O emission

a. Greenhouse gas emission share in Asia countries



Source : IEA

1) Module to estimate CH₄ and N₂O emission

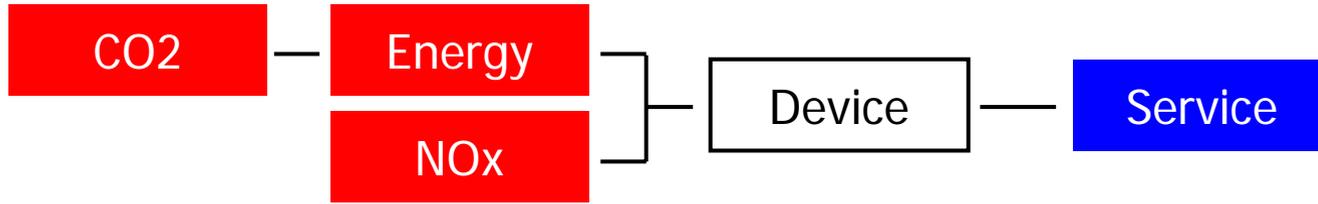
b. Main source of CH₄ and N₂O emission

Classification	Source	CH ₄	N ₂ O
Energy production	Coal Mines		
	Oil Production/Refining		
	Gas Production/Transmission/Distribution		
Enteric Fermentation	Cattle		
	Buffalo		
	Sheep		
	Goats		
	Camels		
	Horses		
	Mules and Asses		
	Swines		
Rice Cultivation	Paddy Rained Flood Prone		
Field Burning of Agr. Residue	Carbon		
	Nitrogen		
Biomass Burning	Charcoal Production		
	Fuel Wood		
	Charcoal Consumption		
	Dung		
Agriculture Soil	Synthetic Fertilizers		

1) Module to estimate CH4 and N2O emission

c. Emission source in AIM/Enduse model

Energy Device



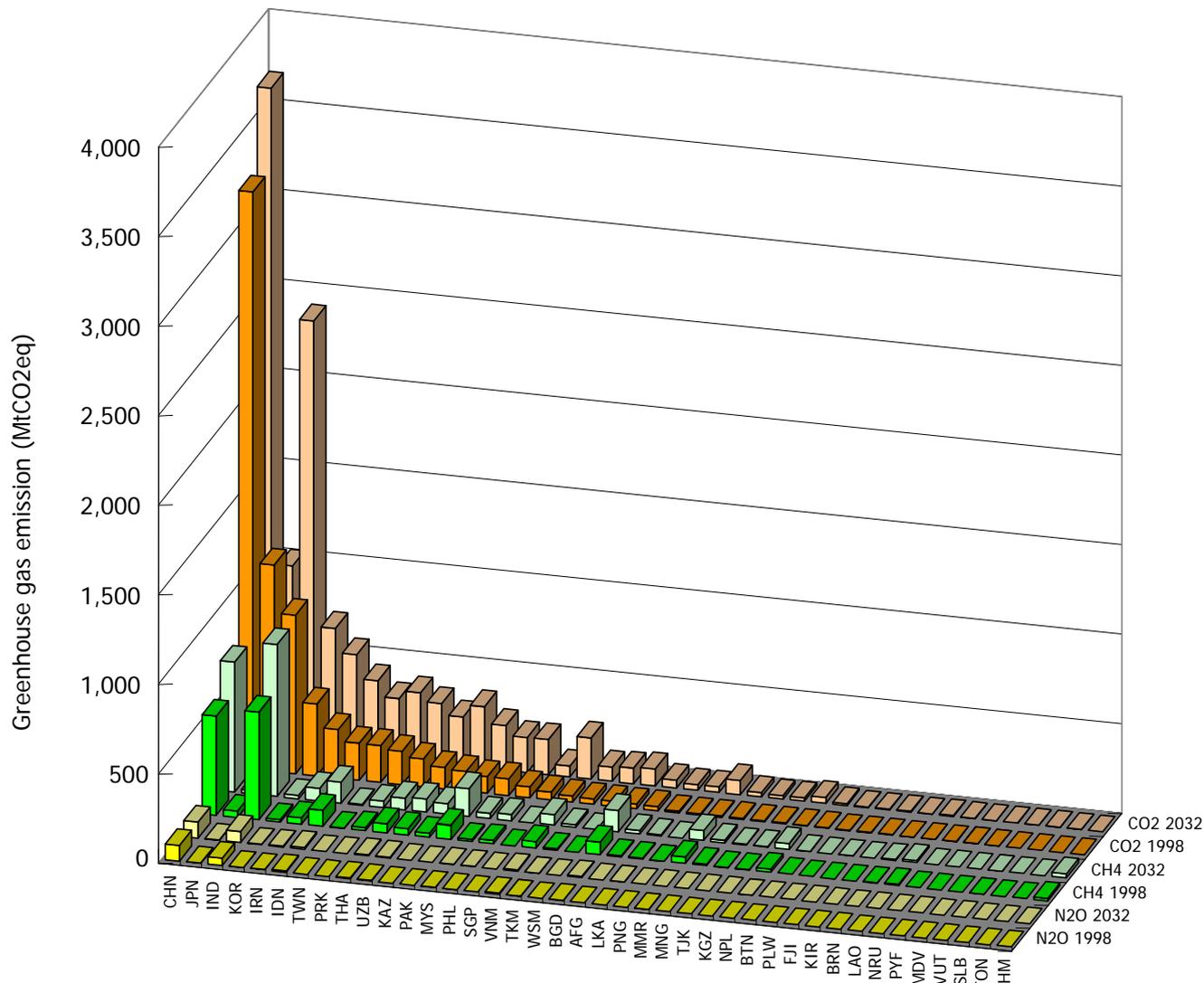
CH4 Emission Source



- Paddy field area
- Livestock heads
- Coal production ...

1) Module to estimate CH₄ and N₂O emission

d. CO₂, CH₄, N₂O Emission estimated with AIM/Enduse model

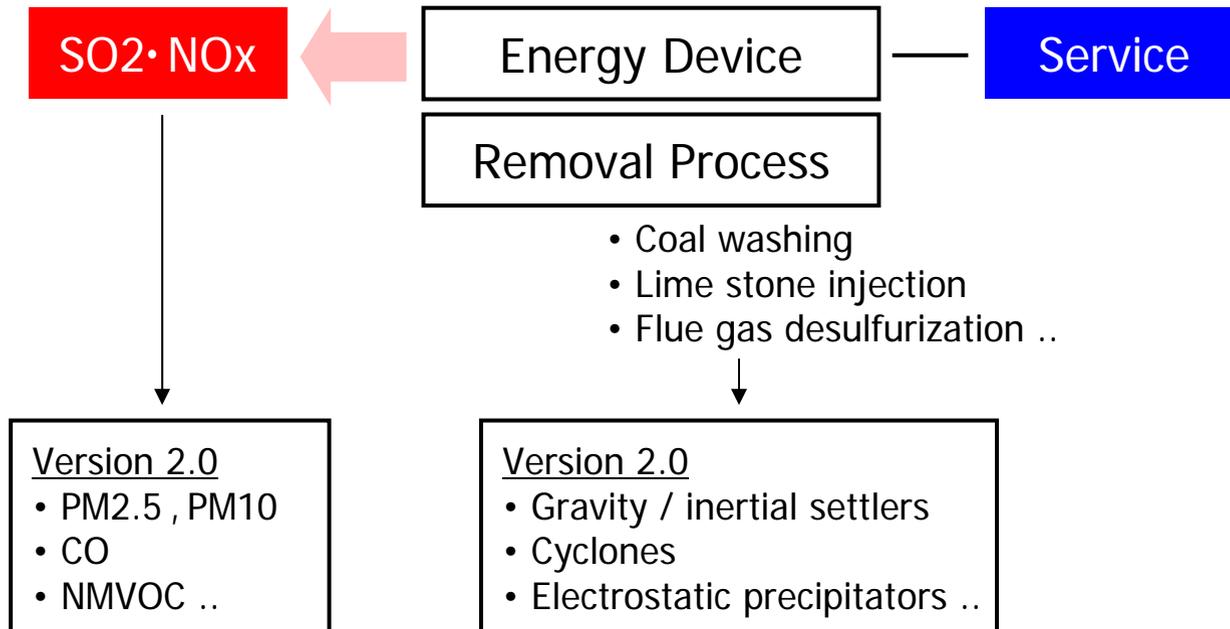


2) Module to estimate PM emission and analyze the effect of removal processes

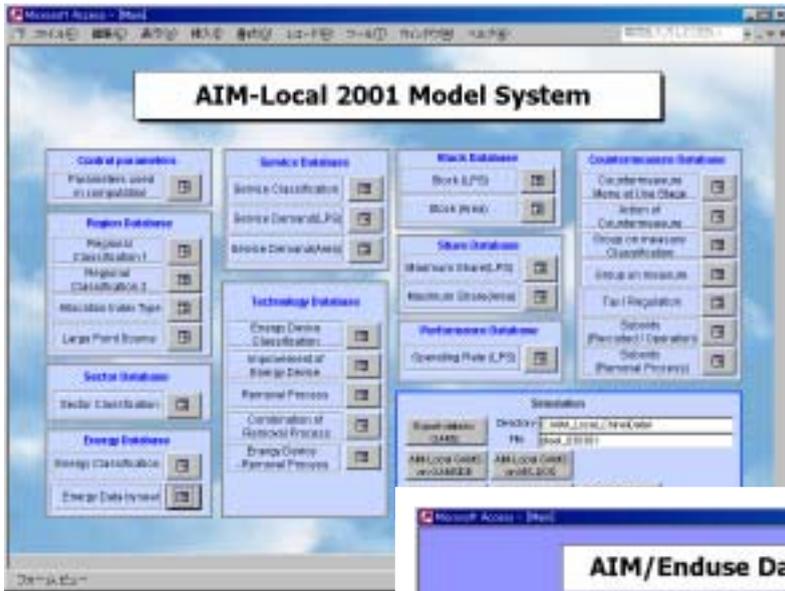
Without removal process



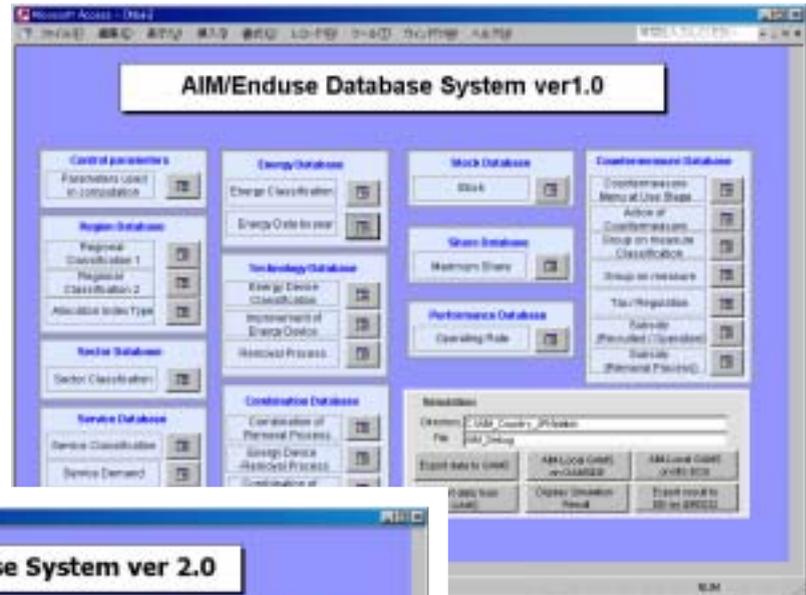
With removal process



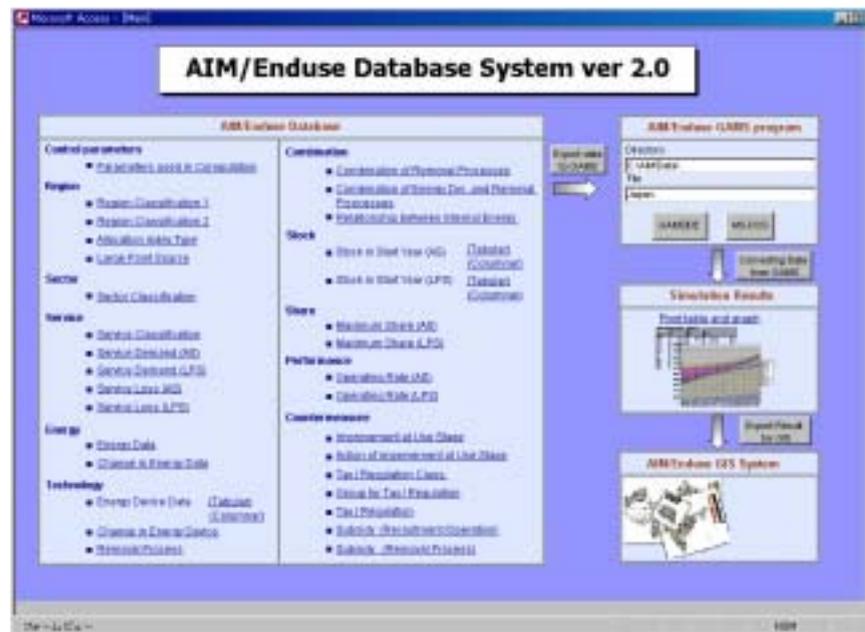
3) Integrate country model and LPS/area source model



March, 2002
LPS/area source model



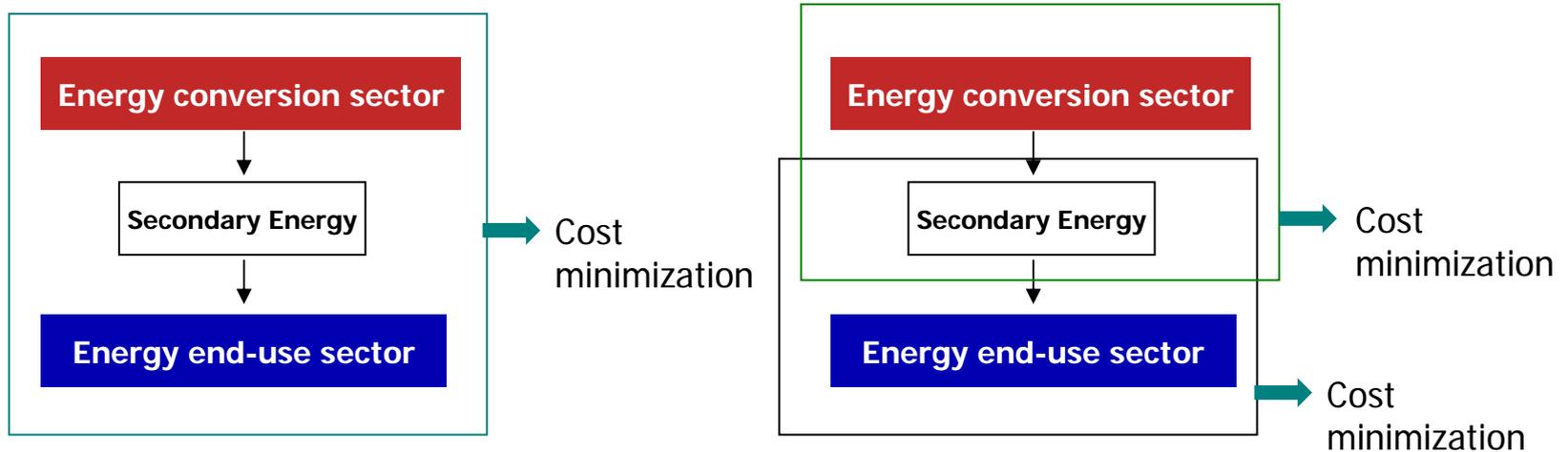
September, 2003
Country model



March, 2003

4) Future work

- 1) Solve the problem in energy conversion sector and energy end-use sector, respectively



- 2) Module to estimate future emission without GAMS

