



Introduction of AIM/CGE Model

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Objectives

To evaluate the environmental policies with simulating the future situation of economy, energy and environment in Asia-Pacific region

- to cover as wide a range of countries in Asia-Pacific region (17 regions)
- to deal with global trade
- to develop 3E model based on economical theory

AIM/CGE/ASIA

- Type: Top-down, CGE, recursive
- Program : GTAP-EG/GAMS/MPSGE
- Database : GTAP ver.5(1997), IEA and so on...
- Target Year: 2050/2100
- Target Region: 26 regions
- Target Sector: 24 sectors

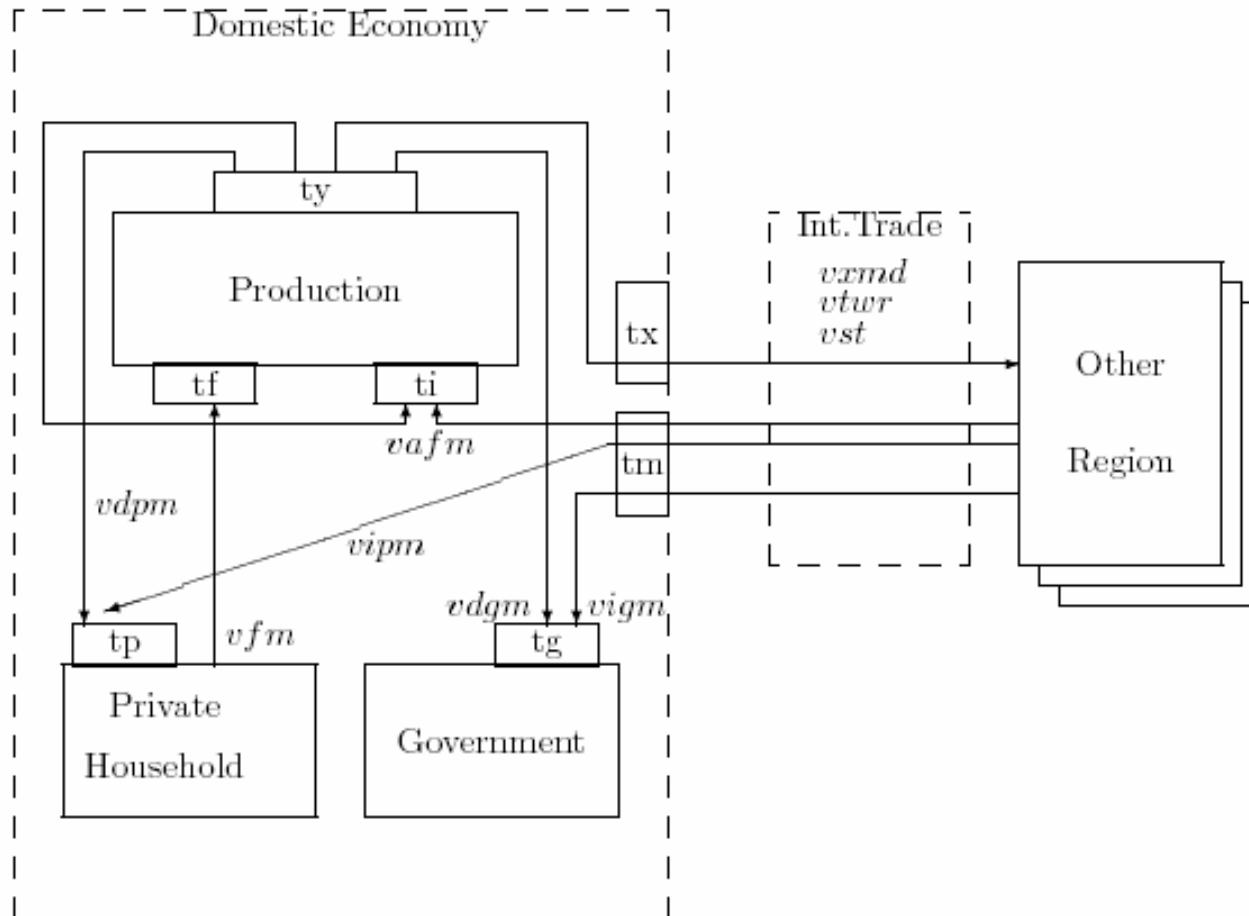
Target Region

1	USA	United States	14	<u>MYS</u>	Malaysia
2	CAN	Canada	15	<u>PHL</u>	Philippines
3	EUR	Europe	16	<u>SGP</u>	Singapore
4	<u>JPN</u>	Japan	17	<u>THA</u>	Thailand
5	<u>AUS</u>	Australia	18	<u>VNM</u>	Viet Nam
6	<u>NZL</u>	New Zealand	19	<u>BGD</u>	Bangladesh
7	FSU	Former Soviet Union	20	<u>IND</u>	India
8	CEA	Central European Associates	21	<u>LKA</u>	Sri Lanka
9	<u>CHN</u>	China	22	<u>ASI</u>	Other Asia
10	<u>HKG</u>	Hong Kong	23	LAM	Latin America
11	<u>KOR</u>	Korea - Republic of	24	MEA	Middle East + North Africa
12	<u>TWN</u>	Taiwan - Province of China	25	SSA	Sub-sahara Africa
13	<u>IDN</u>	Indonesia	26	ROW	Rest of the World

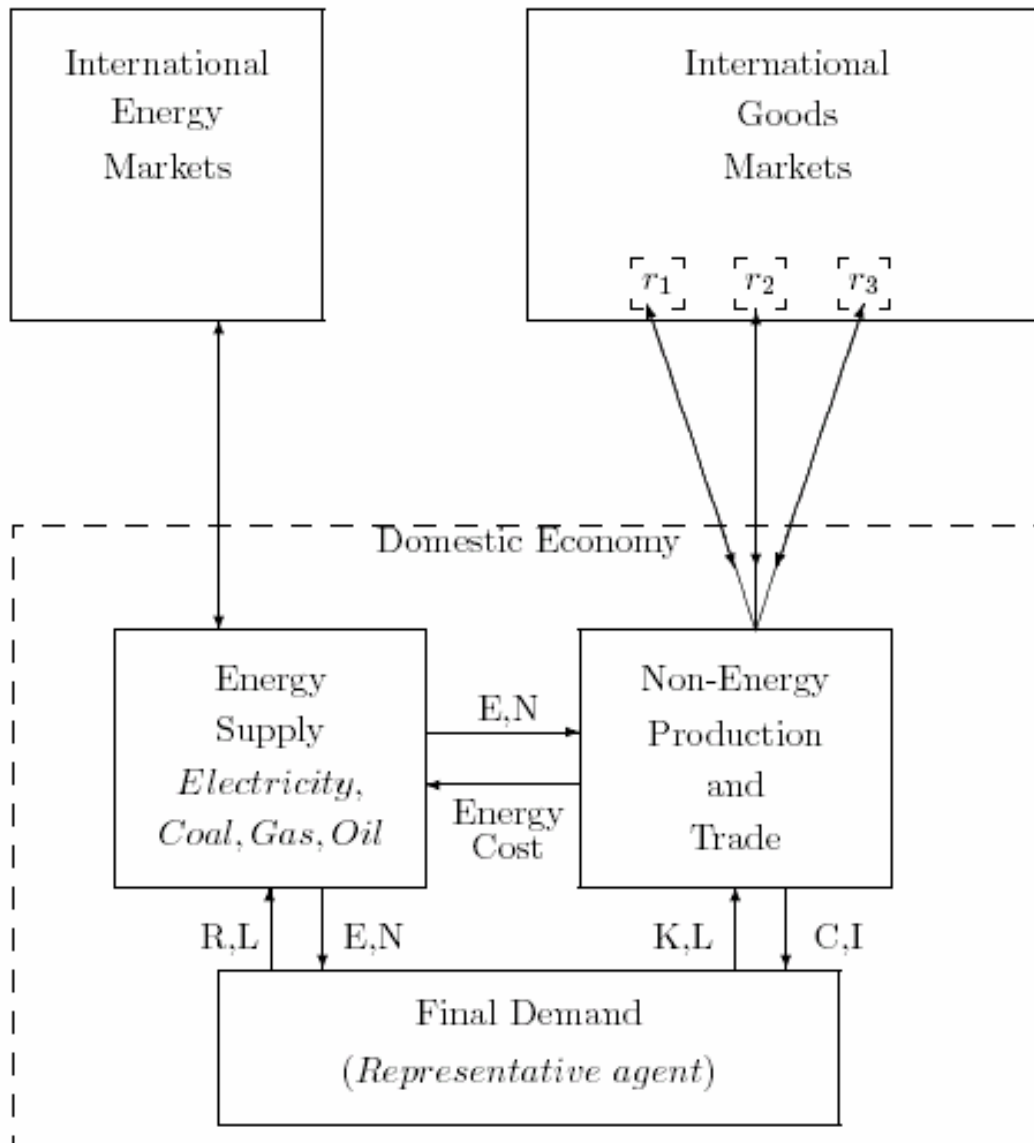
Target Sector

1	GAS	Natural gas works	13	FPR	Food products
2	ELE	Electricity and heat	14	PPP	Paper-pulp-print
3	OIL	Refined oil products	15	LUM	Wood and wood-products
4	COL	Coal transformation	16	CNS	Construction
5	CRU	Crude oil	17	TWL	Textiles-wearing apparel-leather
6	I_S	Iron and steel industry	18	OMF	Other manufacturing
7	CRP	Chemical industry	19	AGR	Agricultural products
8	NFM	Non-ferrous metals	20	ATP	Air transport
9	NMM	Non-metallic minerals	21	T_T	Transport
10	TRN	Transport equipment	22	SER	Commercial and public services
11	OME	Other machinery	23	DWE	Dwellings,
12	OMN	Mining	24	CGD	Investment composite

GTAP flows



GTAP-EG



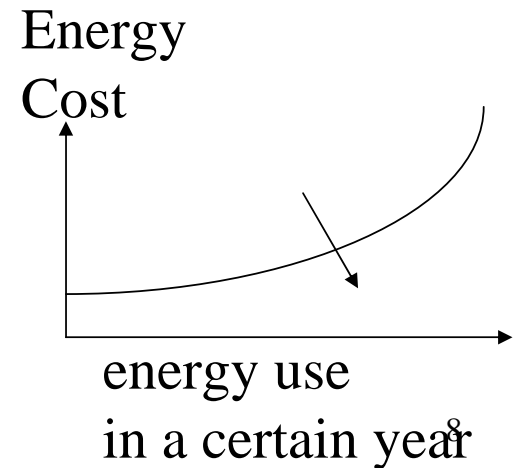
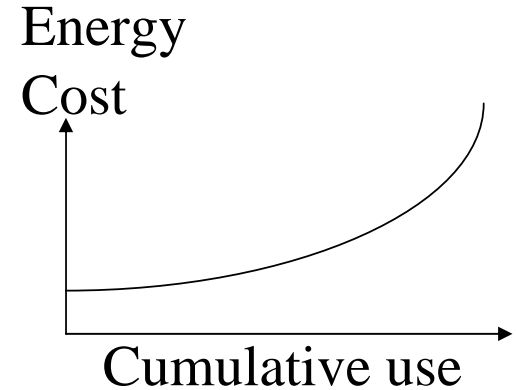
E: Electricity
N: Non-electric energy

R: Energy resources
C: Non-energy goods

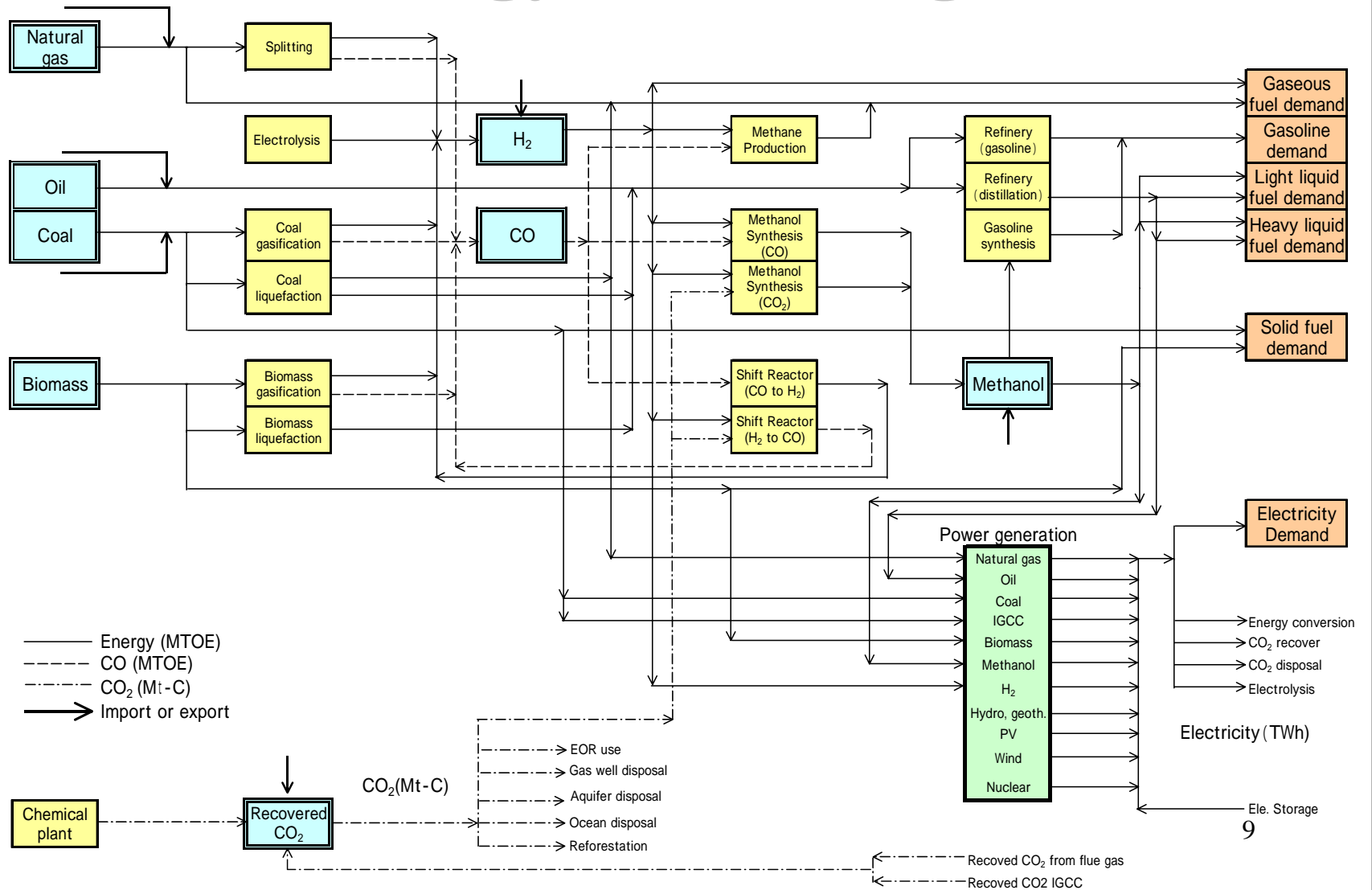
K: Capital
L: Labor
I: Investment

Energy Resources

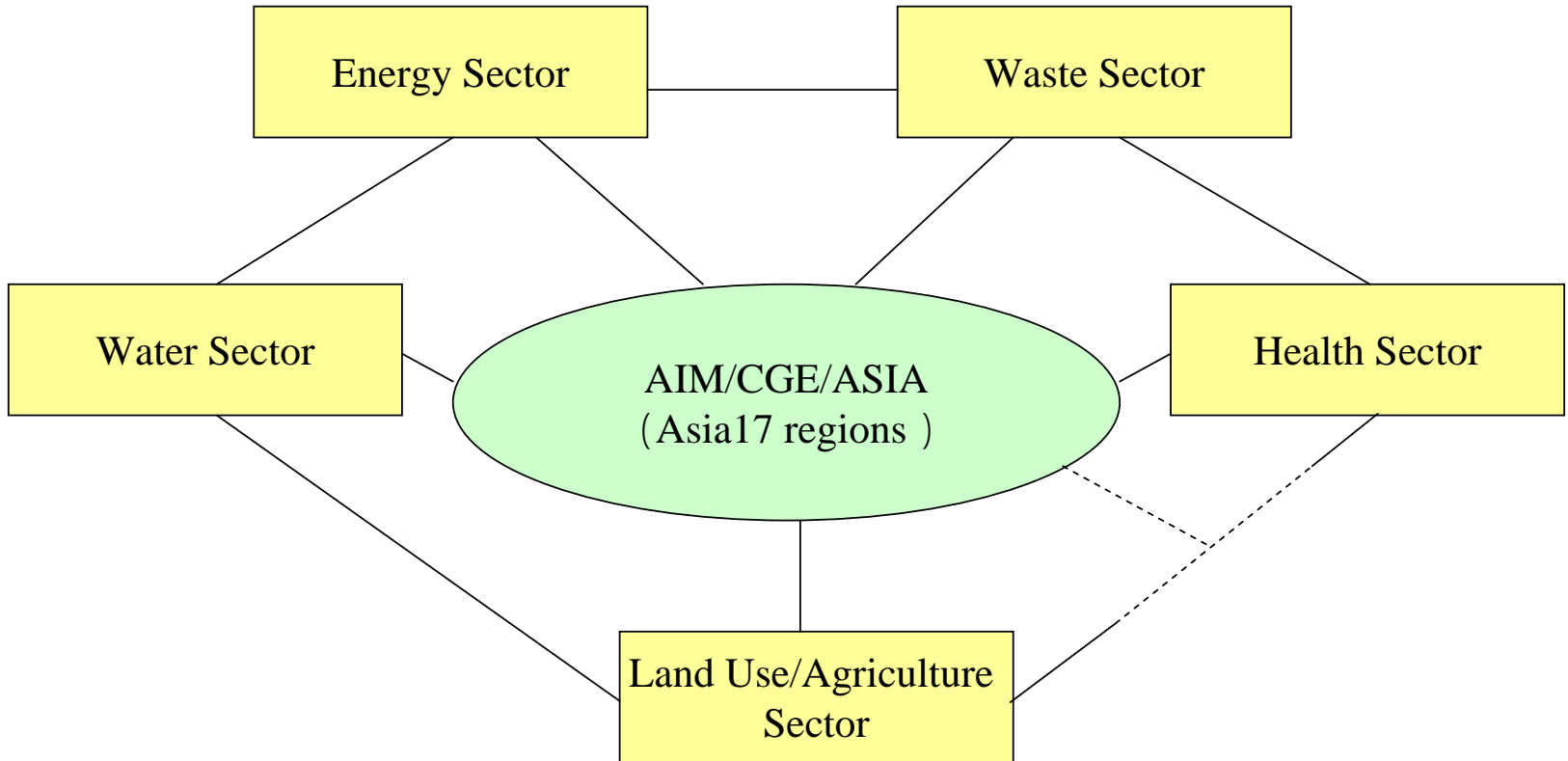
	energies	sources
Fossil Fuel	Oil	Oil & Gas Journal USGS WEC survey
	Gas	
	Coal	
Non-Fossil Fuel	Hydro, Geothermal	WEC survey
	PV, Wind	GIS, WEC survey
	Biomass	FAO, GIS, WEC survey
	Nuclear	IAEA



Energy Technologies



AIM/CGE in AIM Family





Future works

- To investigate and set energy resources and supply cost data
- To develop 1st version of AIM/CGE model
- To evaluate environmental innovative strategy policies