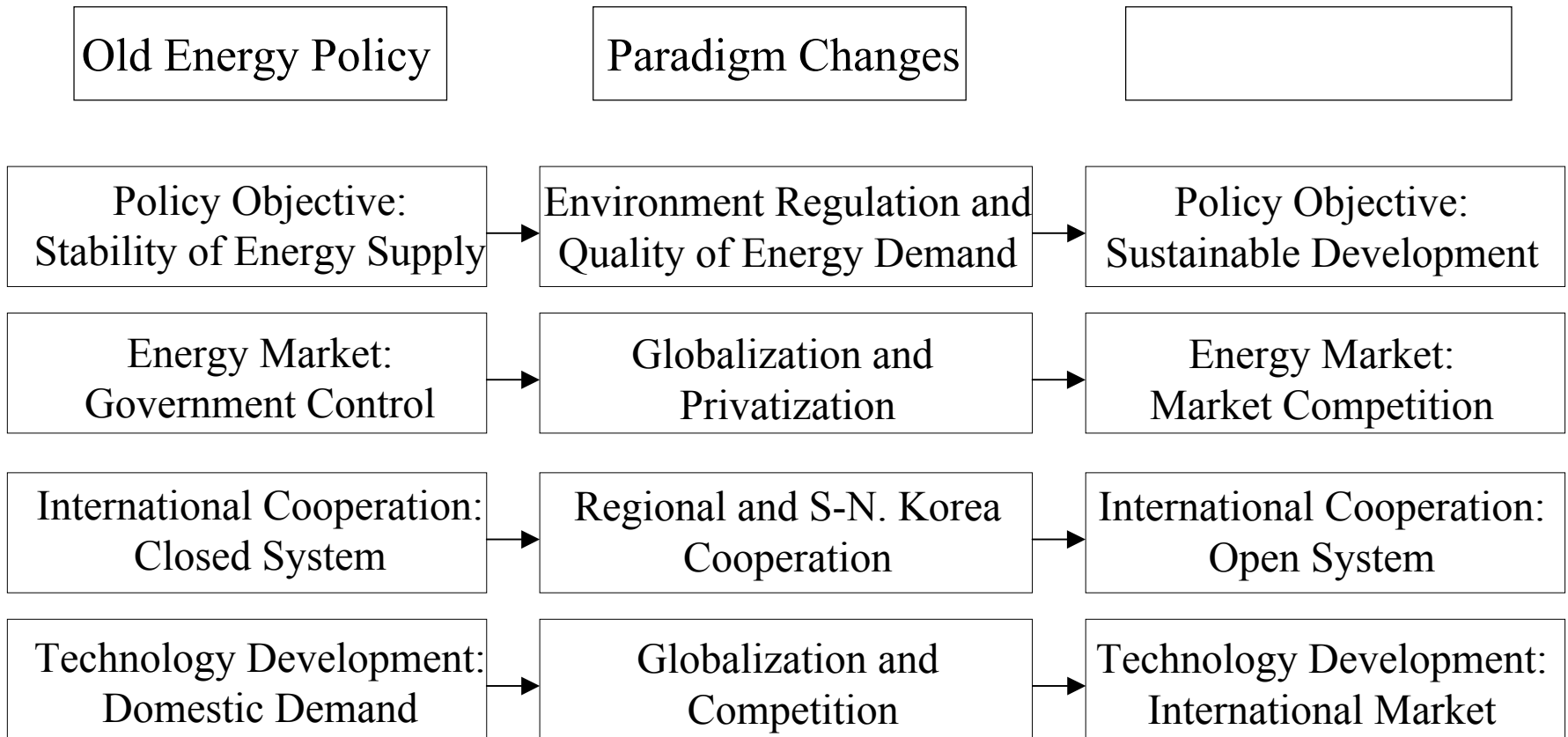


Update on Energy Sector Activities and Plans in the Republic of Korea

Jungmin KANG

Energy Paths Analysis/ Methods Training Workshop
Vancouver, Canada
November 4 to 7, 2003

Energy Vision 2010: A New Energy Policy



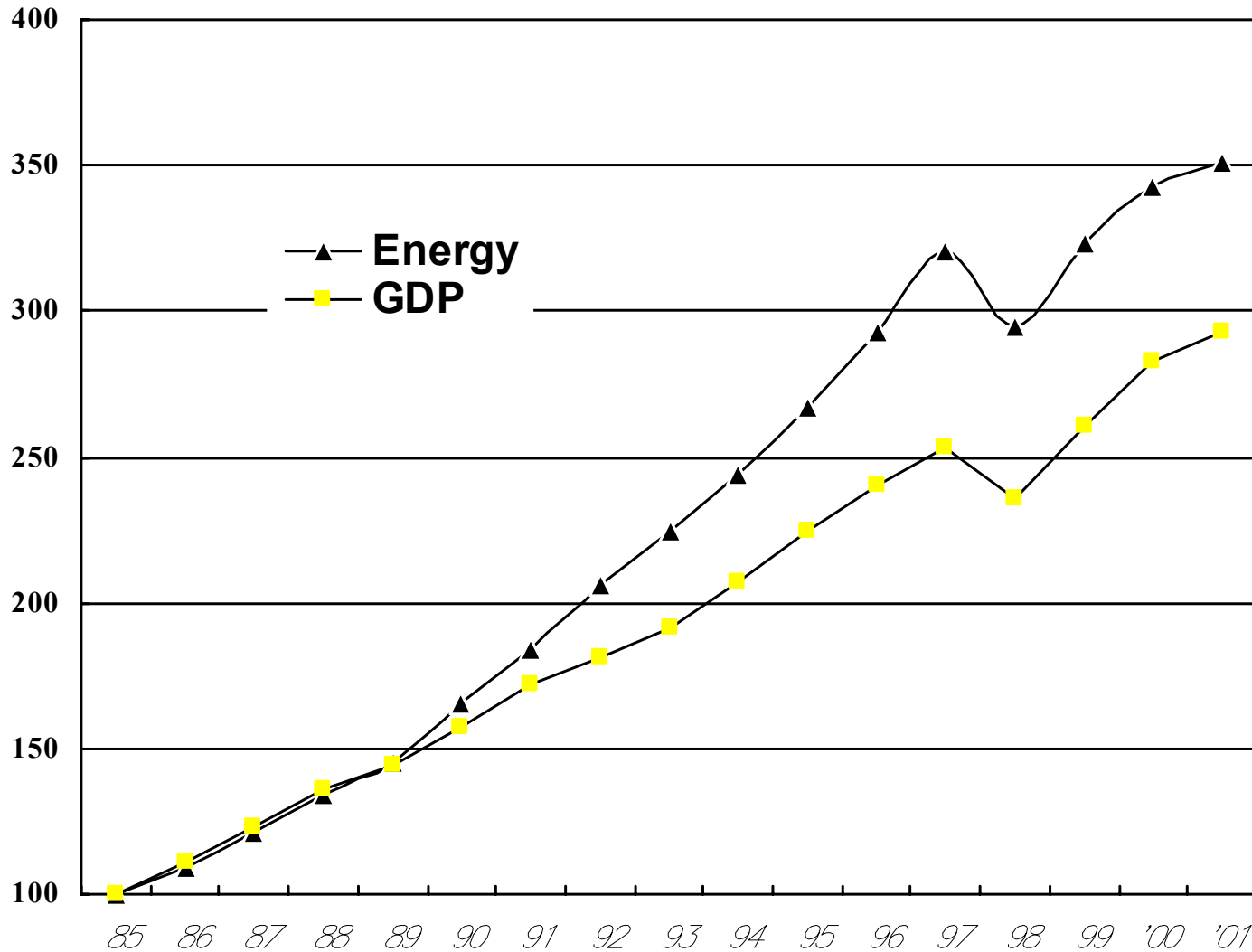
Highlights in Energy Vision 2010

- Sustainable Development
 - Establishment of environmentally friendly energy system
 - Improvement of energy efficiency
 - Encouragement of renewable energy
- Market Competition
 - Restructuring and privatization of the energy industry
 - Establishment of independent regulatory organization
- Open System
 - Establishment of energy network in Northeast Asia
 - Encouragement of energy cooperation between South and North Korea

Energy and Economic Growth

Item	1981	1990	1995	2000	2002	Growth rate (%)	
						'81-'90	'90-'00
Primary Energy Consumption (M TOE)	45.7	93.2	150.4	192.9	208.6	8.2	7.5
Per Capita Energy Consumption (TOE)	1.18	2.17	3.34	4.08	4.38	7.0	6.5
Energy/GDP (TOE/'95 M Won)	0.37	0.35	0.40	0.40	0.40	-0.6	1.4
GDP ('95 T Won)	122.4	263.4	377.4	476.3	521.5	8.9	6.1
Population (M)	38.7	42.9	45.1	47.3	47.6	1.2	1.0

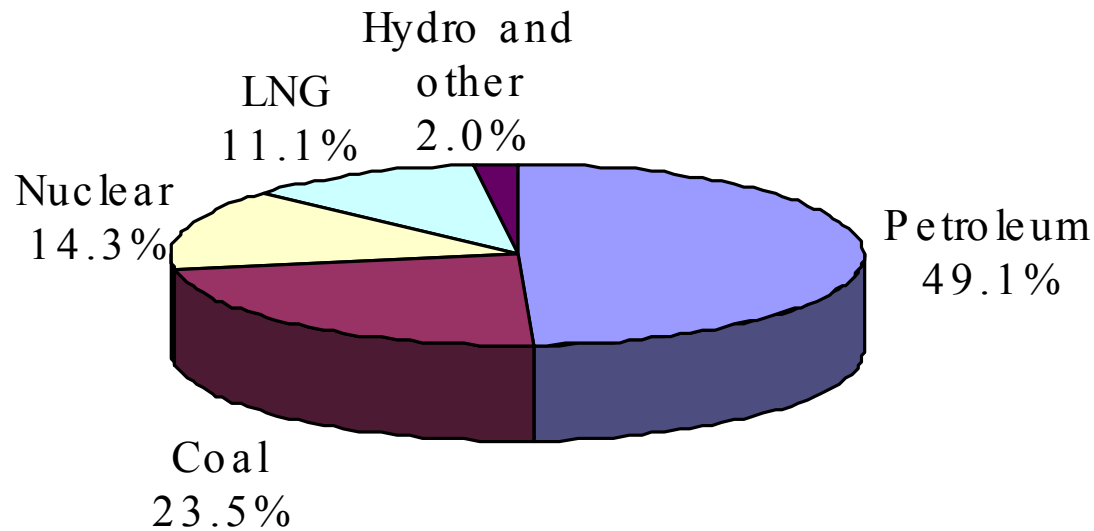
Energy Consumption and Economic Growth



Prospect on Energy & Economic Growth

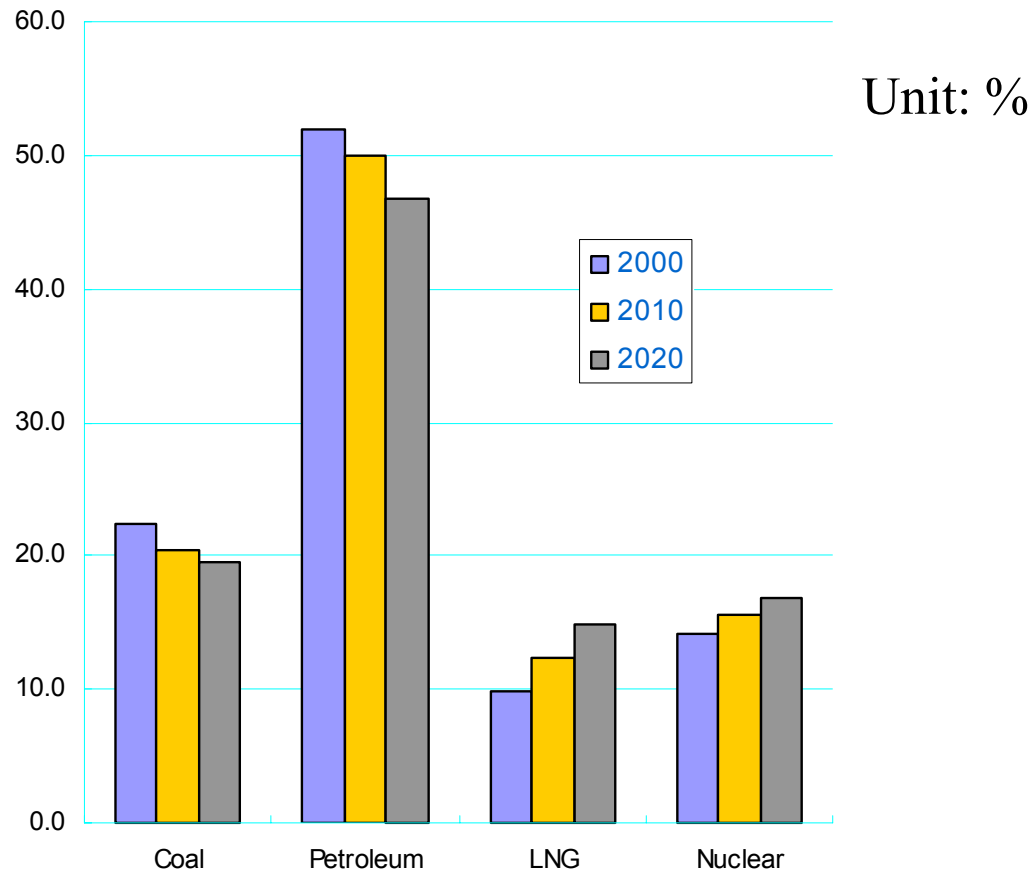
Item	2005	2010	2015	2020	Growth rate (%)	
					'00-'10	'10-'20
Primary Energy Demand (M TOE)	230.9	263.6	288.2	311.8	3.2	1.7
Per Capita Energy Demand (TOE)	4.77	5.31	5.72	6.16	2.6	1.5
Energy/GDP (TOE/'95 M Won)	0.38	0.34	0.30	0.27	-1.8	-2.3
Energy/GDP Elasticity	0.72	0.53	0.39	0.43	0.62	0.42
GDP ('95 T Won)	611.0	783.1	975.9	1,170.3	5.1	4.1
Population (M)	48.5	49.6	50.4	50.7	0.5	0.2

Energy Consumption by Source (2002)

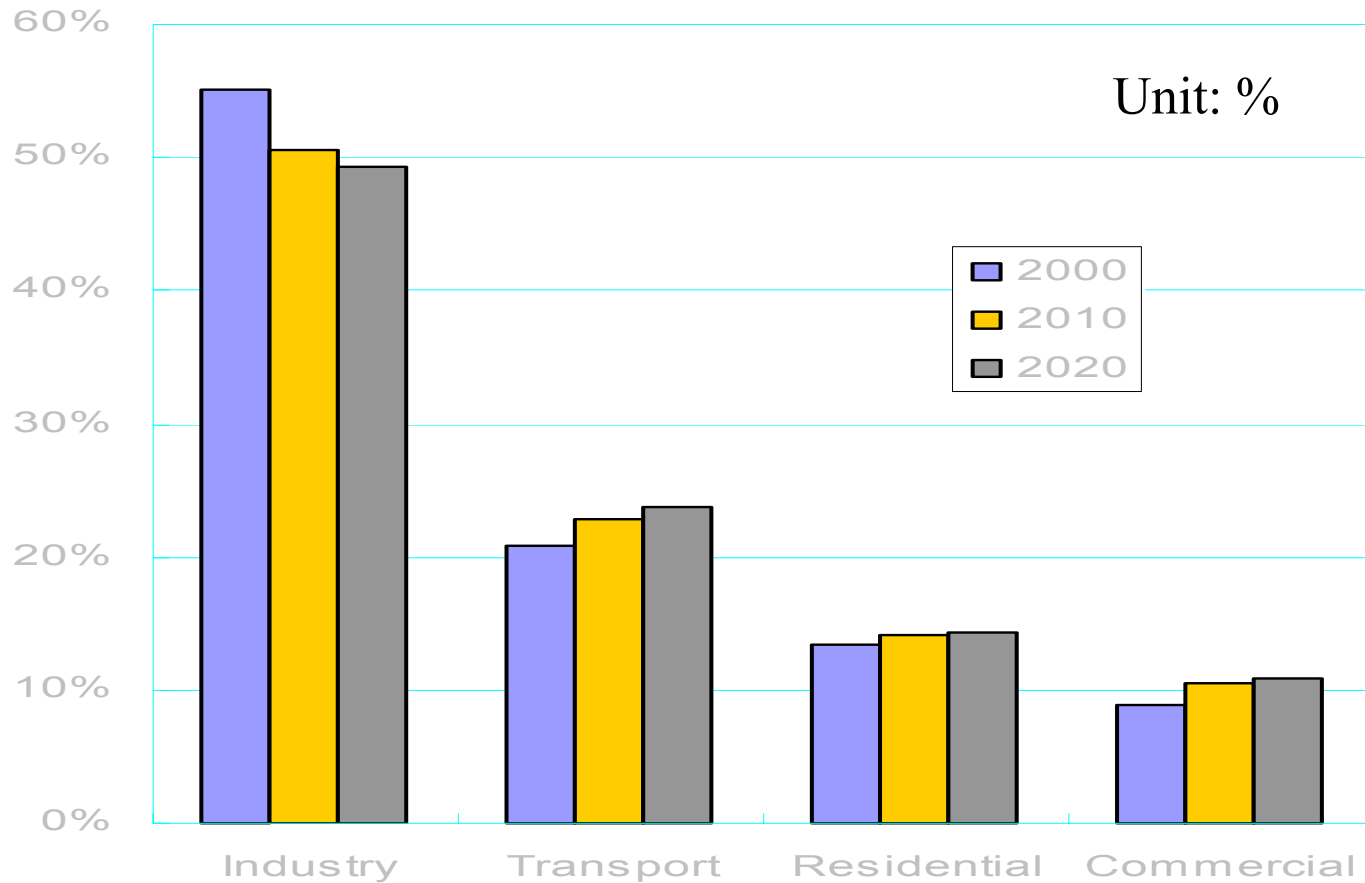


Total energy consumption: 208.6 M TOE

Energy Outlook: Energy Demand by Fuel



Energy Outlook: Energy Demand by Sector



Overseas Dependency of Energy Imports

	'80	'90	'00	'01	'02
Overseas Dependency (%)	73.5	87.9	97.2	97.3	97.1
Dependency on MEA Oil (%)	98.8	73.7	76.8	76.9	73.3

Measure for Energy Security

- Traditional measures
 - Government intervention on energy imports and domestic supplies
 - Diversifying energy fuels and import sources
 - Encouraging energy developments in abroad
 - Oil stockpiling
 - Energy conservation
- New measures
 - Enforcing market force rather than government control
 - Continuously increasing oil stocks
 - Enhancing international/regional energy cooperation

Prospect on CO₂ Emission

	2001	2006	2011	2015	2020
CO ₂ Emission (M TC)	123.3	147.8	162.9	171.5	184.7
CO ₂ /GDP (TC/ '95 M Won)	0.25	0.23	0.20	0.18	0.16
Per Capita Emission (TC)	2.60	3.03	3.27	3.41	3.65
CO ₂ /Energy (TC/TOE)	0.62	0.62	0.60	0.59	0.59

Measure for Environmental Security

- Energy efficiency
- Enlarging renewable energy

Prospect on Renewable Energy

	2001	2006	2011
M TOE (% over total energy)	2.5 (1.2)	4.0 (1.7)	5.8 (2.2)

Regional Energy Cooperation

- ROK shows official interest in regional initiatives for sharing energy resources, according to its Energy Vision 2010.
- KEEI has a more concrete project on this issues.

National Concern in Energy Security

- Siting problems, in particular, for new nuclear power plants as well as nuclear radioactive wastes