

**FINANCIAL STRATEGIES  
TO ACCELERATE DEPLOYMENT  
OF  
CLEANER POWER SYSTEMS**

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**WORLD ENERGY COUNCIL  
CLEANER FOSSIL FUEL SYSTEMS  
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# ENERGY POLICIES

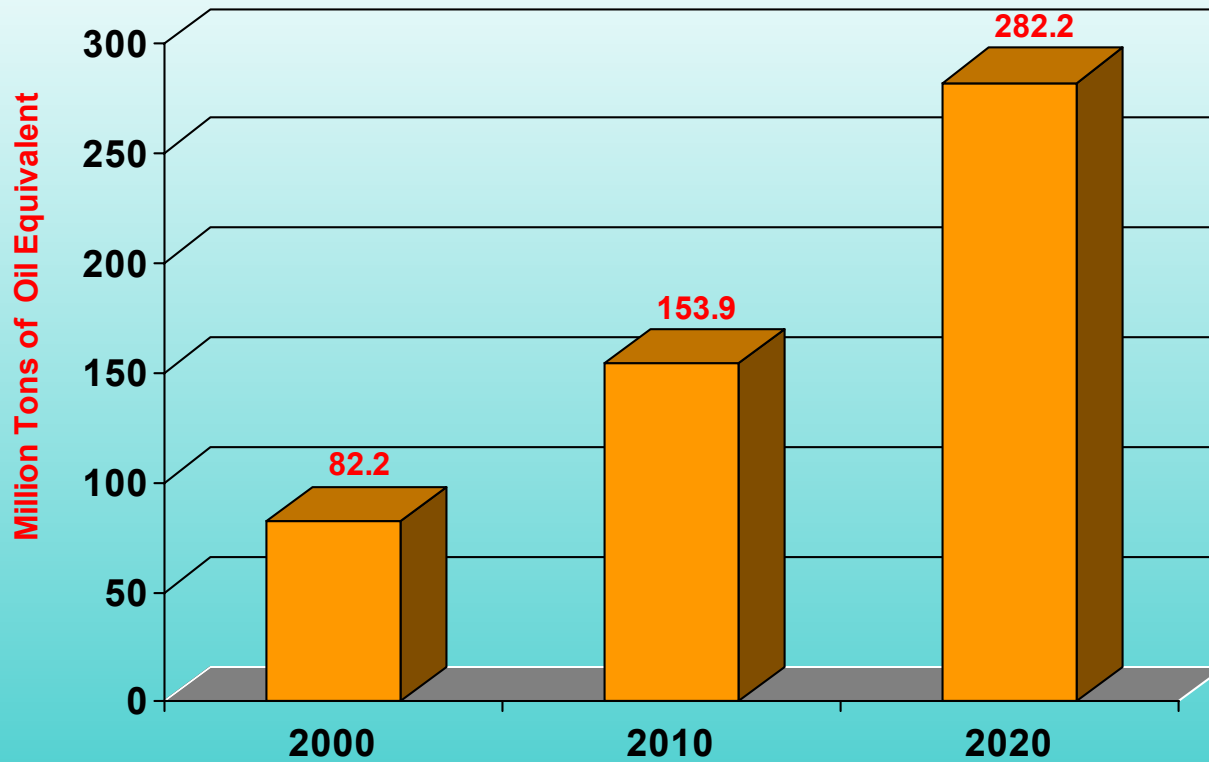
- Liberalization of the energy sector,
- Enhancing productivity and ensuring transparency by creating a competitive environment in the energy market,
- Transportation of the rich energy resources of the East to the Western markets via Turkish Energy Corridor,
- Giving priority to resource diversification for the Energy Supply Security in Turkey which is becoming more and more dependent on external sources to meet its energy demand,
- Targeting Sustainable Development in evaluation and utilization of energy resources, by also considering the environmental issues,
- Giving more emphasis to the New Energy Technologies.

# IMPORT DEPENDENCY

<b>YEAR</b>	<b>DOMESTIC RESOURCES</b>	<b>IMPORT</b>
<b>2000</b>	<b>34 %</b>	<b>66 %</b>
<b>2010</b>	<b>27 %</b>	<b>73 %</b>
<b>2020</b>	<b>22 %</b>	<b>78 %</b>

# PRIMARY ENERGY DEMAND

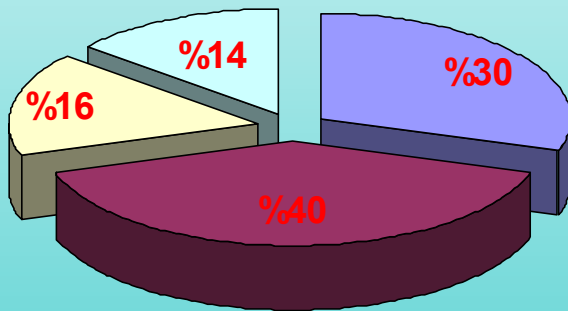
At 6.4% average annual growth rate



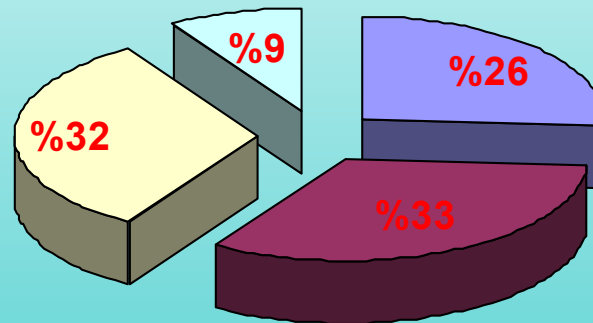
# PRIMARY ENERGY DEMAND BY SOURCES

Fossil fuels will remain as primary source in future

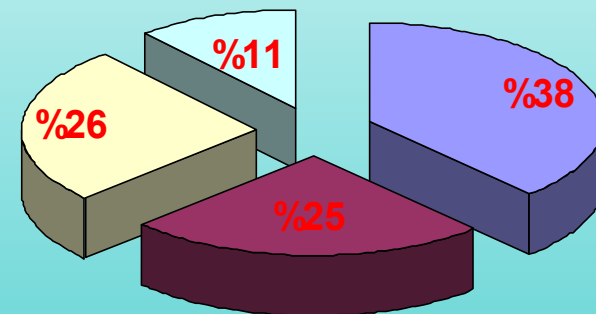
2000



2010

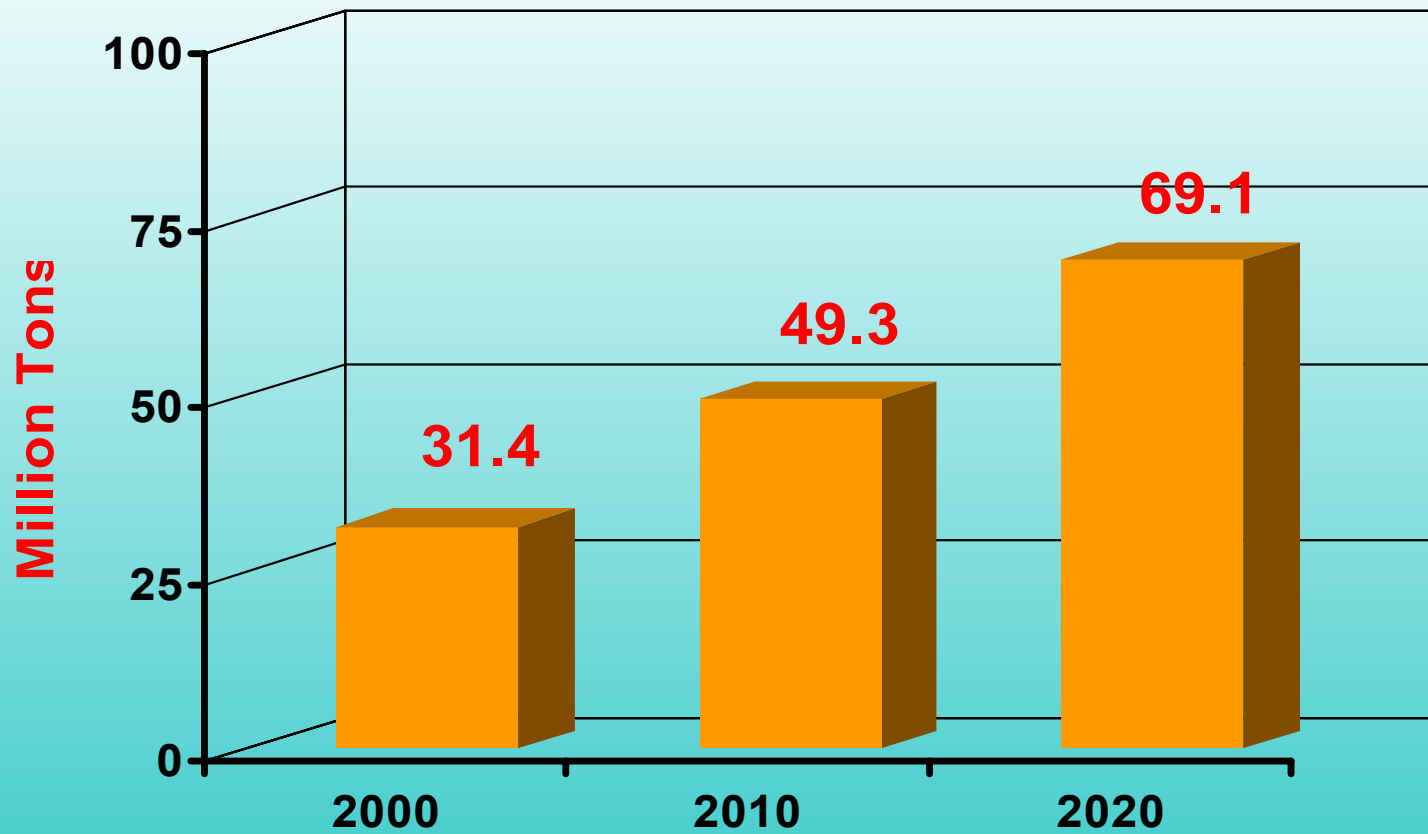


2020

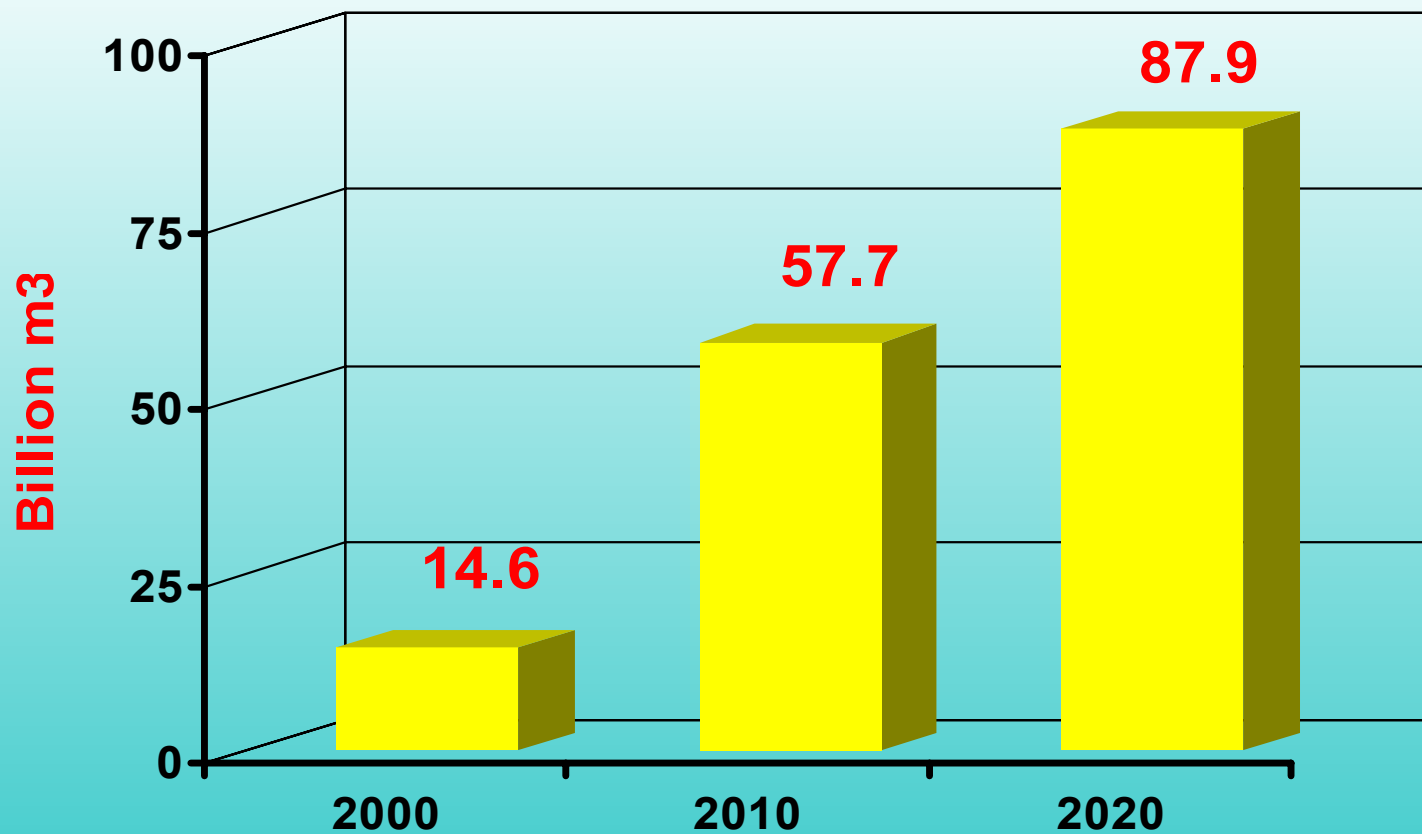


Coal Oil N. Gas Others

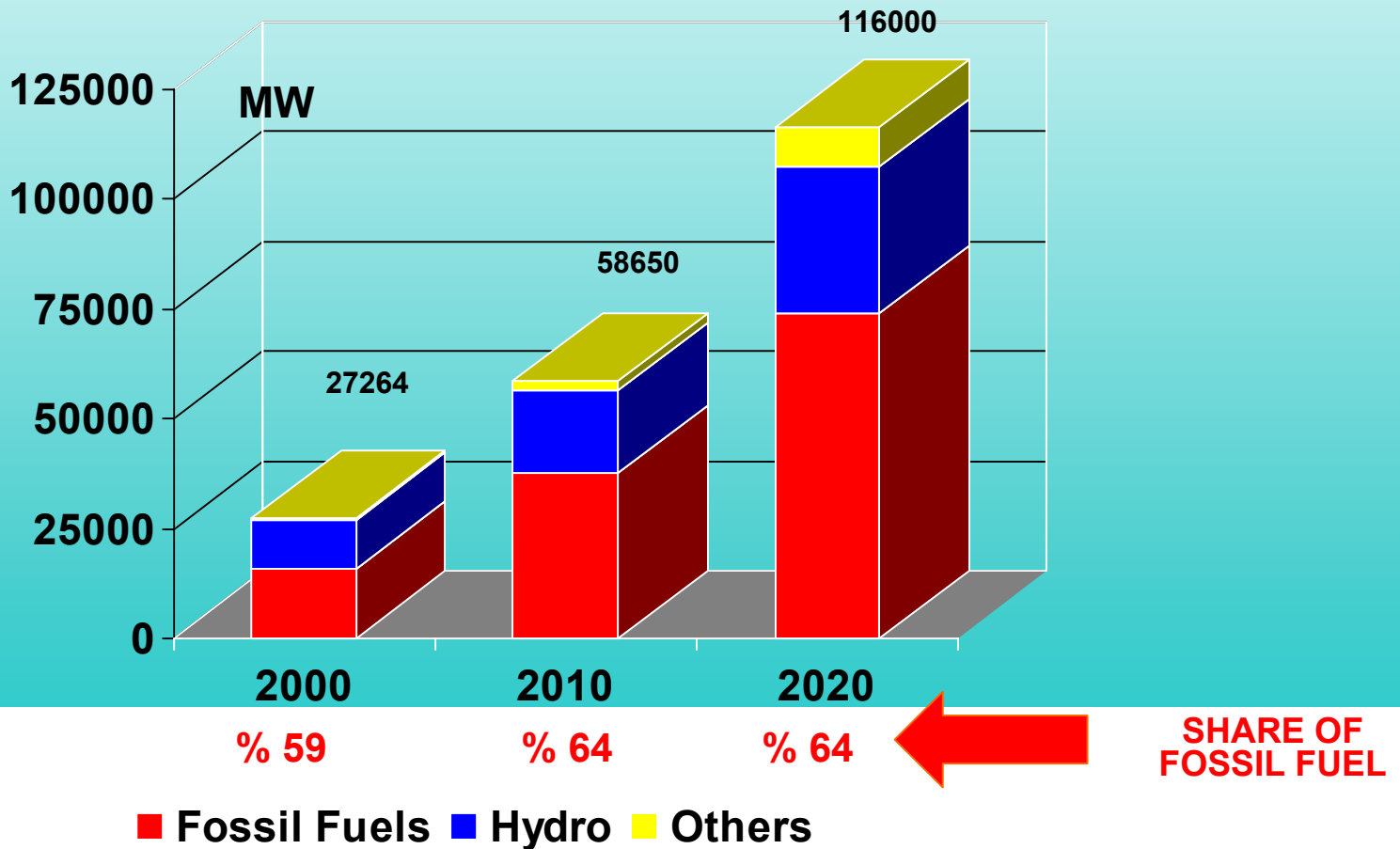
# OIL DEMAND



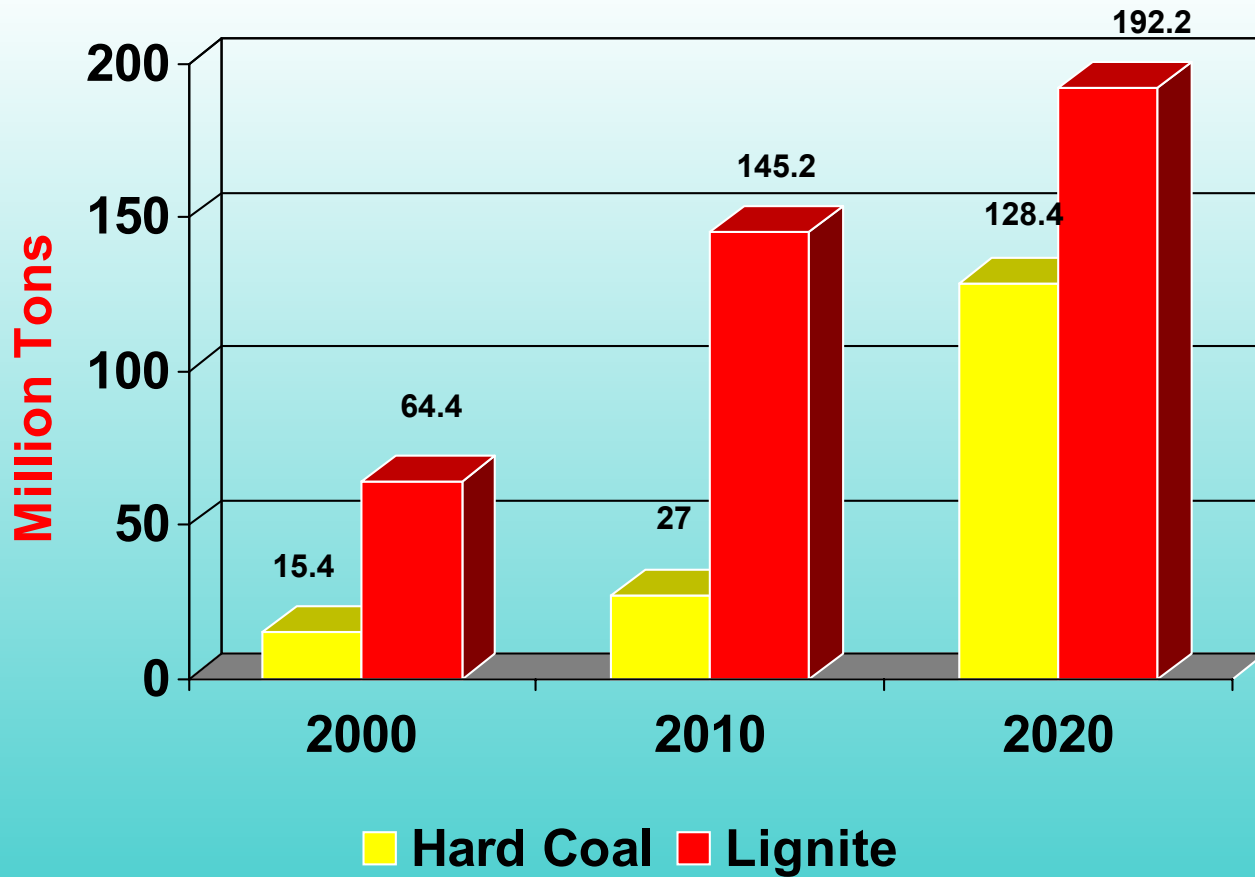
# NATURAL GAS DEMAND



# INSTALLED POWER CAPACITY



# COAL DEMAND



# CLEAN COAL TECHNOLOGIES

- All clean energy technologies are encouraged.

- Çan Power Plant with a total installed capacity of 320 MW is under construction with Fluidized Bed Technology

- Flue Gas Desulphurization (FGD) units are being installed to the existing power plants. New power plants are constructed together with FGD

- Operating facilities with FGD units:

- Orhaneli
    - Çayırhan1-4
    - Yatağan
    - Kangal 3

- Facilities whose FGD units are under construction:

- Yeniköy-Operating
    - Kemerköy-Operating
    - Afşin-Elbistan B

# COMBINED HEAT-POWER SYSTEMS

- **Combined heat-powers Systems play a significant role to utilise energy sources efficiently and also reduce CO<sub>2</sub> emissions**
- **Cogeneration systems have been encouraged in Turkey**
- **The share of facilities operating under Autoproducer models in total electricity generation is about 9% in the European Union while 11.4% in our country**

# NATURAL GAS SALE-PURCHASE AGREEMENTS

**8 gas supply contracts (Natural Gas and LNG) have already been signed with six different countries.**

- **Russian Federation (3 different agreements)**
- **Nigeria (LNG)**
- **Algeria (LNG)**
- **Iran**
- **Azerbaijan**
- **Turkmenistan**

# “East-West Energy Corridor” of the 21<sup>st</sup> Century”

