

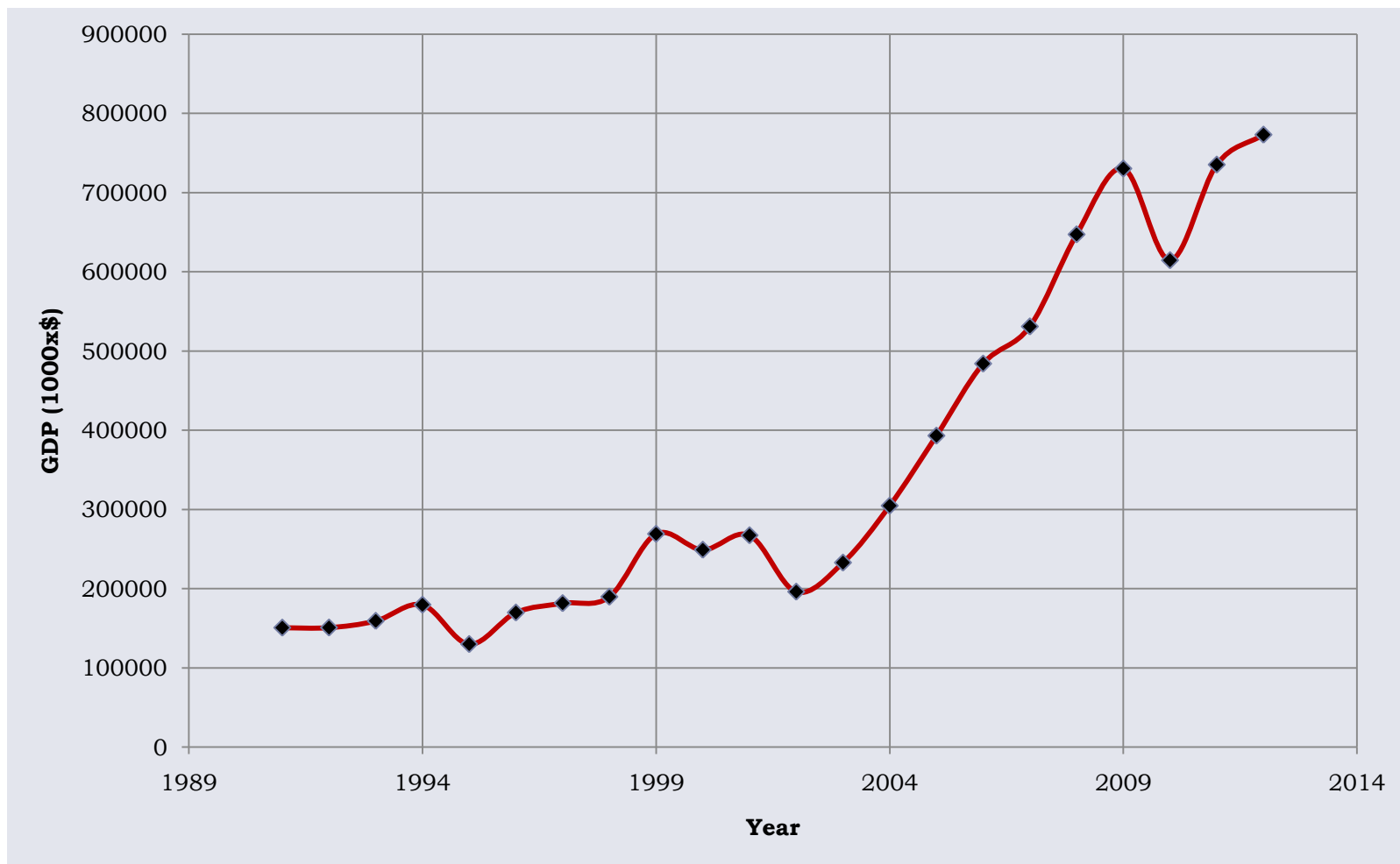
Why Nuclear in Turkey

**Necati YAMAÇ, Head Of NEPIO,
Turkish Ministry of Energy**

Atomexpo 2014, Moscow, 10.6.2014

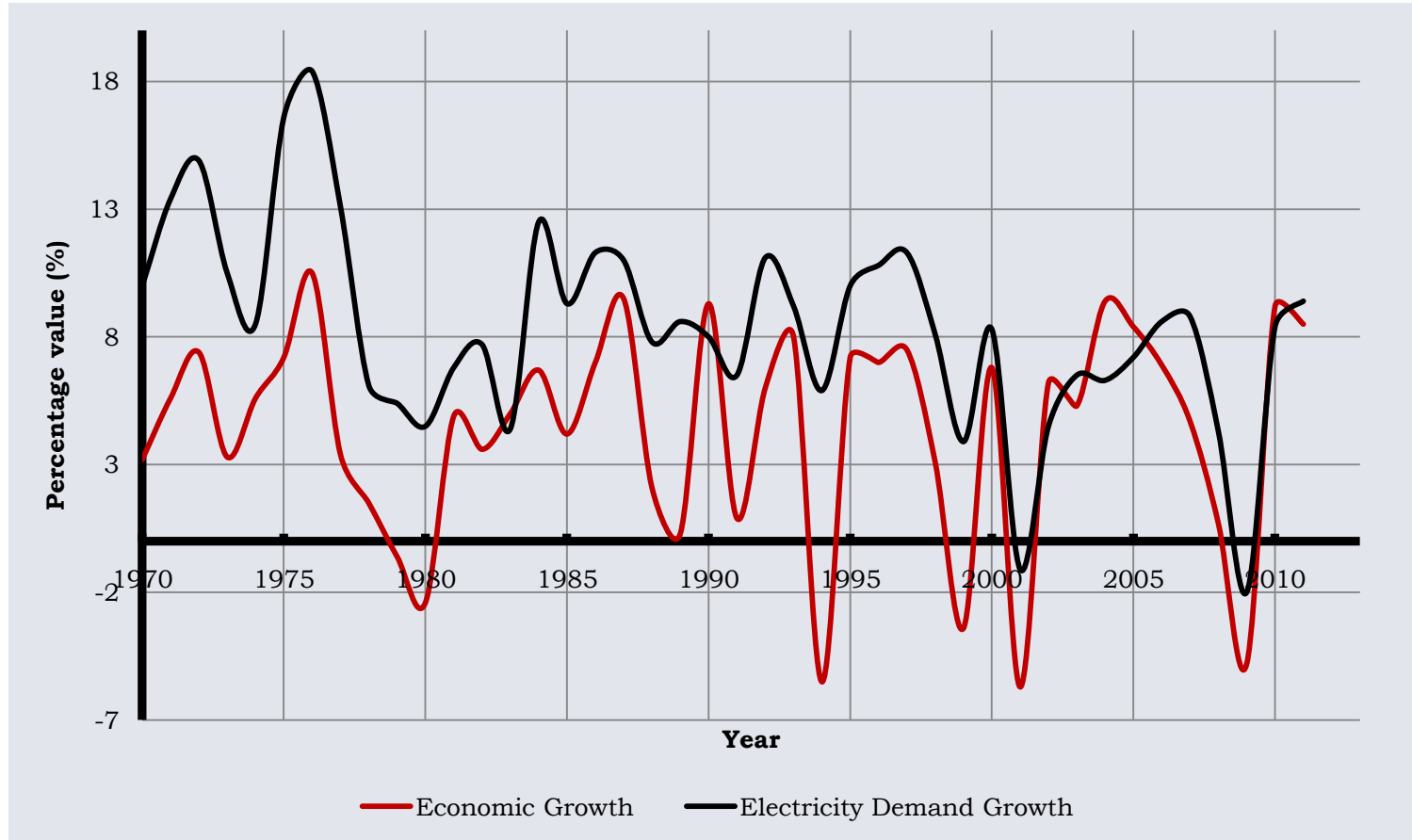
ENERGY PROFILE

GDP Projection



Electricity Demand (Side)

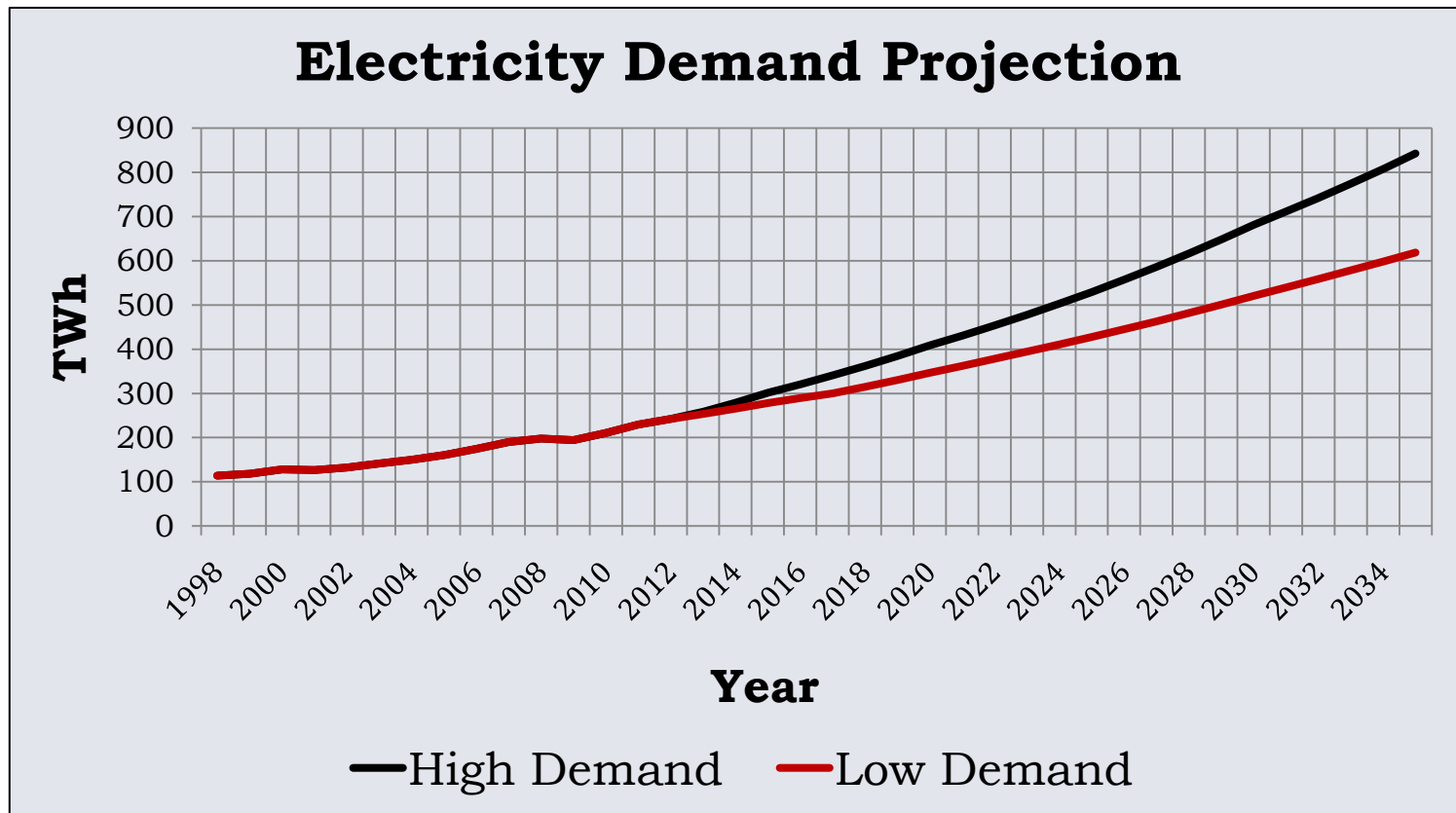
GDP&Electricity Demand*



* General Directory of Energy Affairs, MENR

Demand Growth

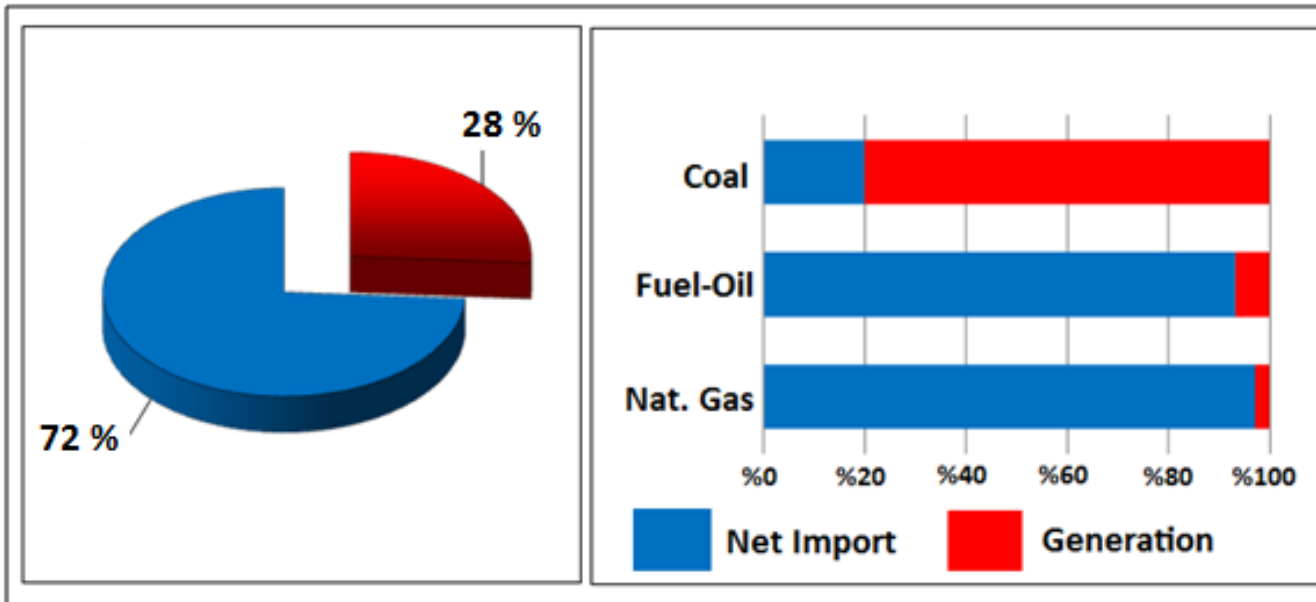
- The annual electricity demand growth rate is 7-8%.
- Ranking **second in the World** after China, and **first in Europe**.



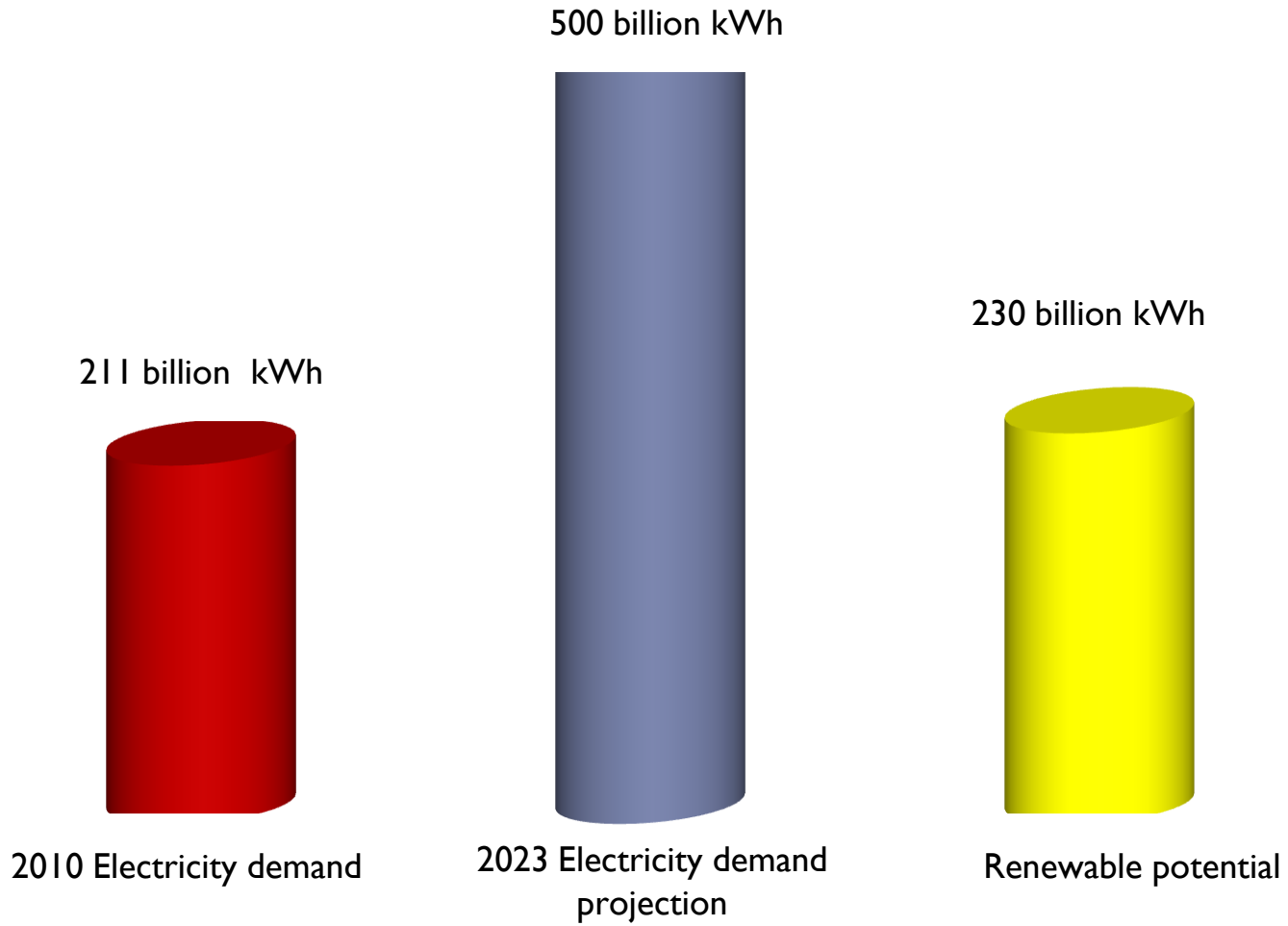
Energy Dependency

Current Situation

- ▶ %72 Energy dependency
- ▶ %98 Natural Gas, %92 Petroleum, %20 Coal



Renewable Energy Capacity



Why is Turkey Late on Nuclear?

Date	Events
1956	Atomic Energy Authority established
1967-1972	2nd part of five years nuclear development plan failed.
1972	TEK Nuclear Energy Department Established
1976	Akkuyu site licence accepted.
1977-1979	The tender cancelled
1983-1985	The tender cancelled
1986	TEK Nuclear Energy Department closed.
1996-2000	The tender canceled after 8 delays.
2007	National Nuclear Technology Development Program started
2007	Law No. 5710
2008-2009	The tender cancelled
2010	IGA signed with the Russian Federation Akkuyu NGS Electricity Generation Company established

AKKUYU NPP PROJECT

General Information

- Contractor: ROSATOM
- Estimated Cost: 20 billions US \$
- Reactor Type: VVER-1200 (AES-2006)
- Number of Units: 4 Units (1200 MW each)
- Operation Time: 60 years



Performed Activities

YEAR	EVENTS
12.05.2010	Signature of Intergovernmental Agreement
13.12.2010	Establishment of Project Company
05.2011	Allocation of Akkuyu site to the project company

Performed Activities

YEAR	EVENTS
09.2011	190 Turkish students sent to MEPHI University in Russian Fed. (by a financial support of Project Company)
12.2011	Application of Electricity Generation License to Energy Market Regulatory Authority
12.2011	Application for EIA to Ministry of Environment and Urbanism

Planned Activities

YEAR	EVENTS
2014	<ul style="list-style-type: none"> ▪ Signature of Power Purchase Agreement ▪ Completion of EIA ▪ Granting Electricity Generation License ▪ Application for Construction License
2015	Expected to issuance of Construction License
2019-2022	Commissioning Unit 1-2-3-4 one year interval

THANK YOU

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