



Contribution of Türkiye to Energy Security in SE Europe

DR. HALİL YURDAKUL YİĞİTĞÜDEN

CONSULTANT, FORMER CO-ORDINATOR OF OSCE ECONOMIC AND
ENVIRONMENTAL ACTIVITIES

IENE ROUNDTABLE ON ENERGY SECURITY IN SE EUROPE
EUROPEAN PARLIAMENT
BRUSSELS 19 MARCH 2026

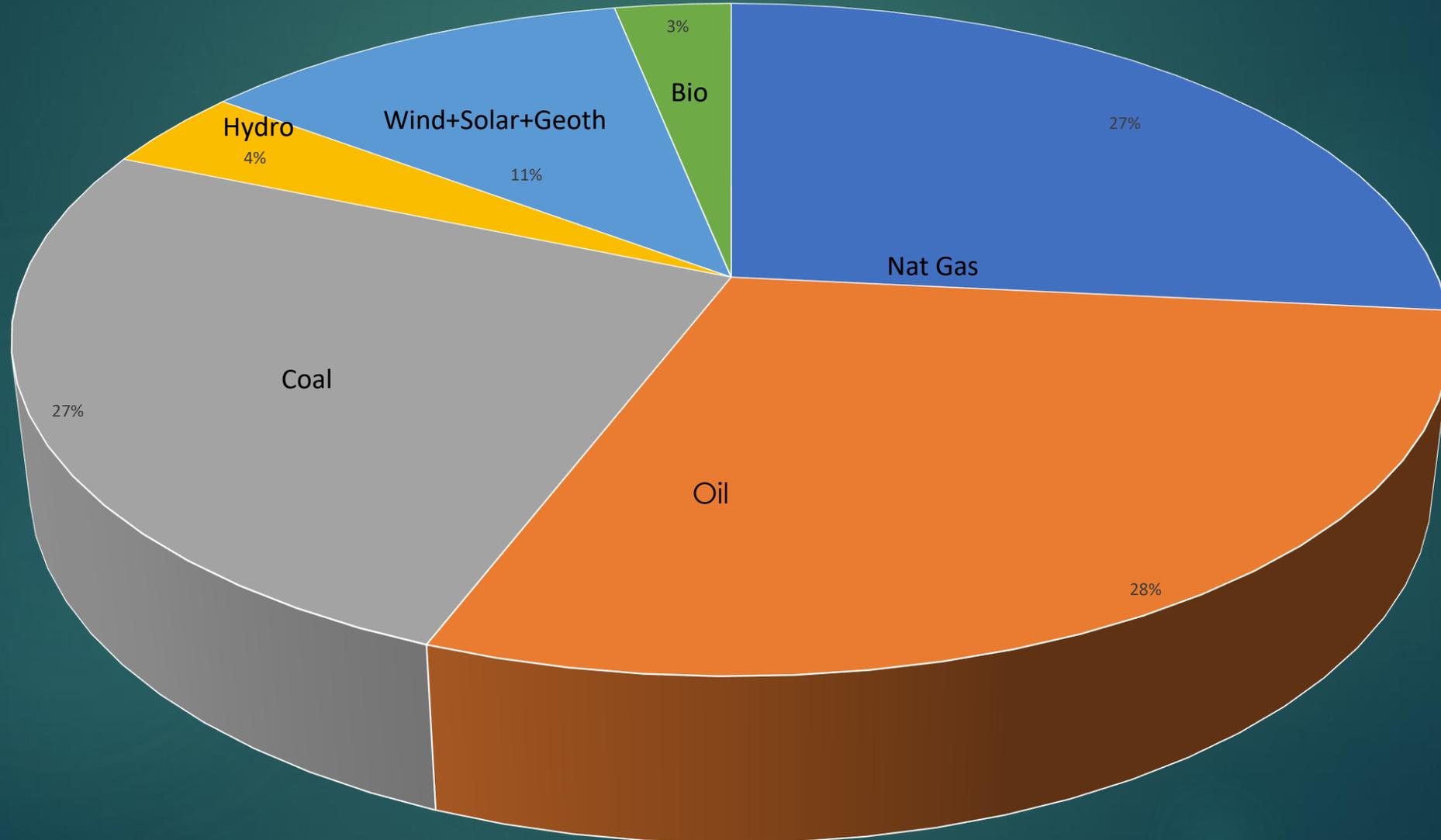
Turkish Economy - 2025



- ▶ Population: ~86 Million
- ▶ GDP: 1.59 Trillion USD
- ▶ GDP growth: 3.6%
- ▶ Gross External Debt Stock to GDP as of 30 Sep: 36.7%
- ▶ Trade volume: ~ 639 Bn USD
- ▶ 6th largest economy in Europe

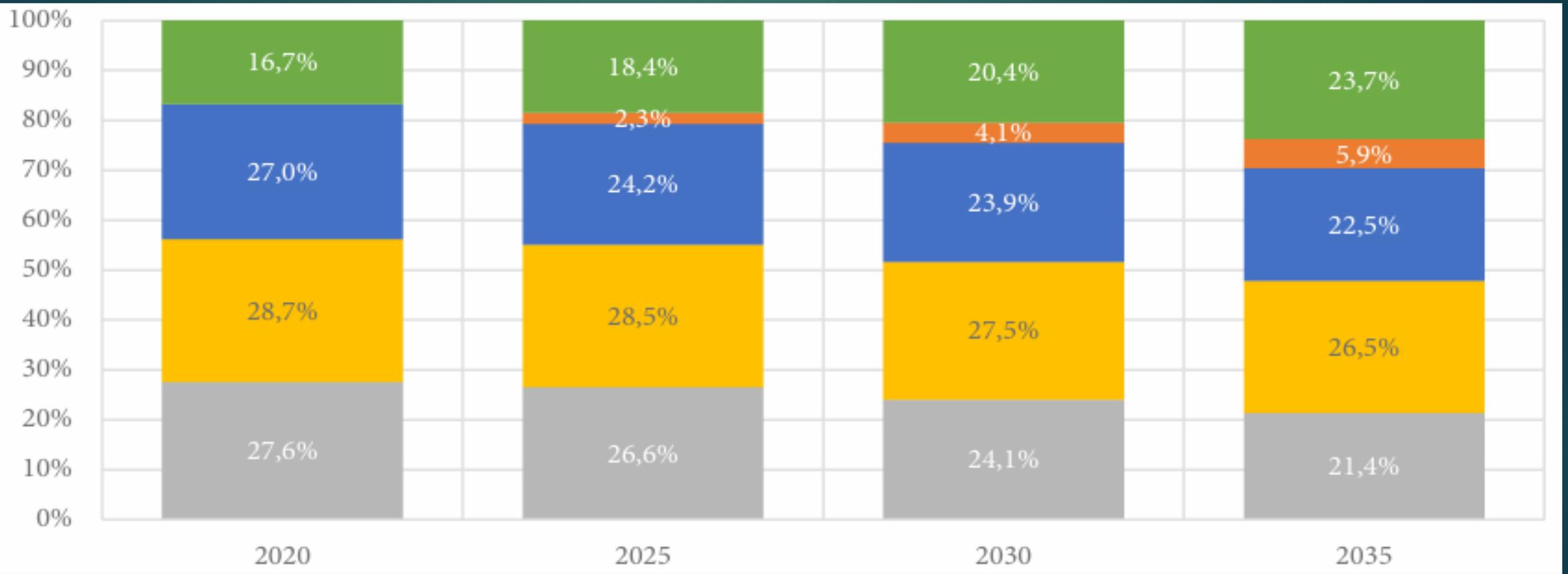
Primary Energy Mix of Türkiye 2024

165.2 Mill toe, Share of imports: 67% - Share of Renewables: 18.6%



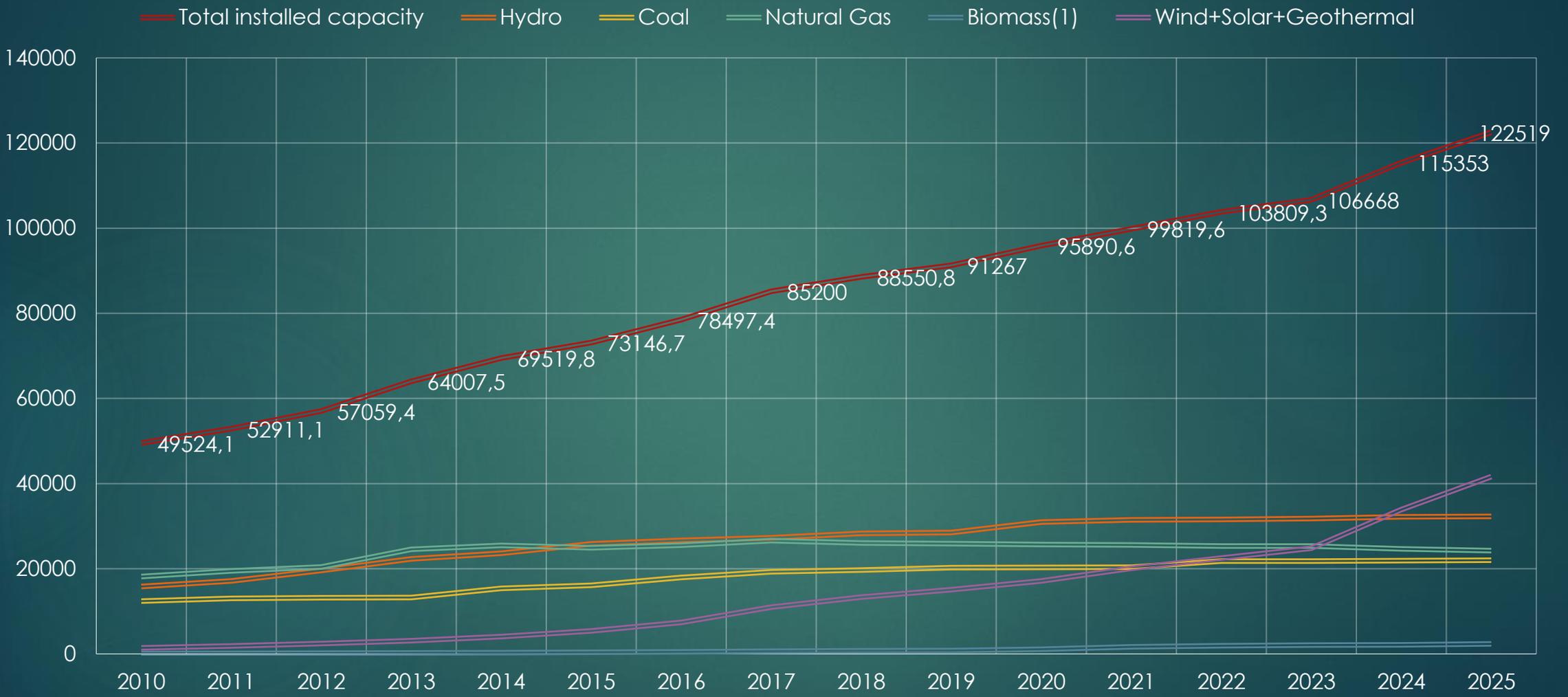
National Energy Plan 2020-2035

Primary Energy Consumption and its Distribution by Source



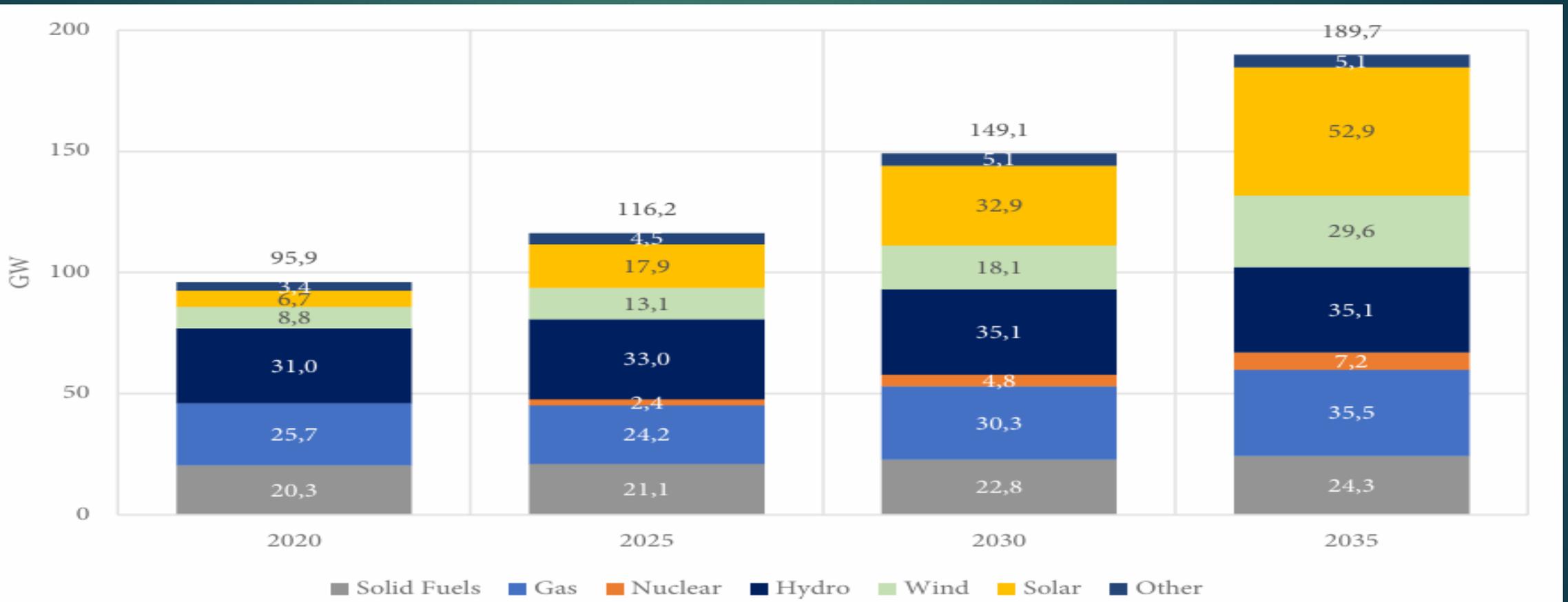
■ Solid Fuels ■ Oil ■ Gas ■ Nuclear ■ RES

Development of installed capacity



2025: Renewables 76,3 GW – 62 % of total; 2035 Target: Renewables 122.7 GW – 65% of total

Planned development of installed electricity capacity by source 2020-2035



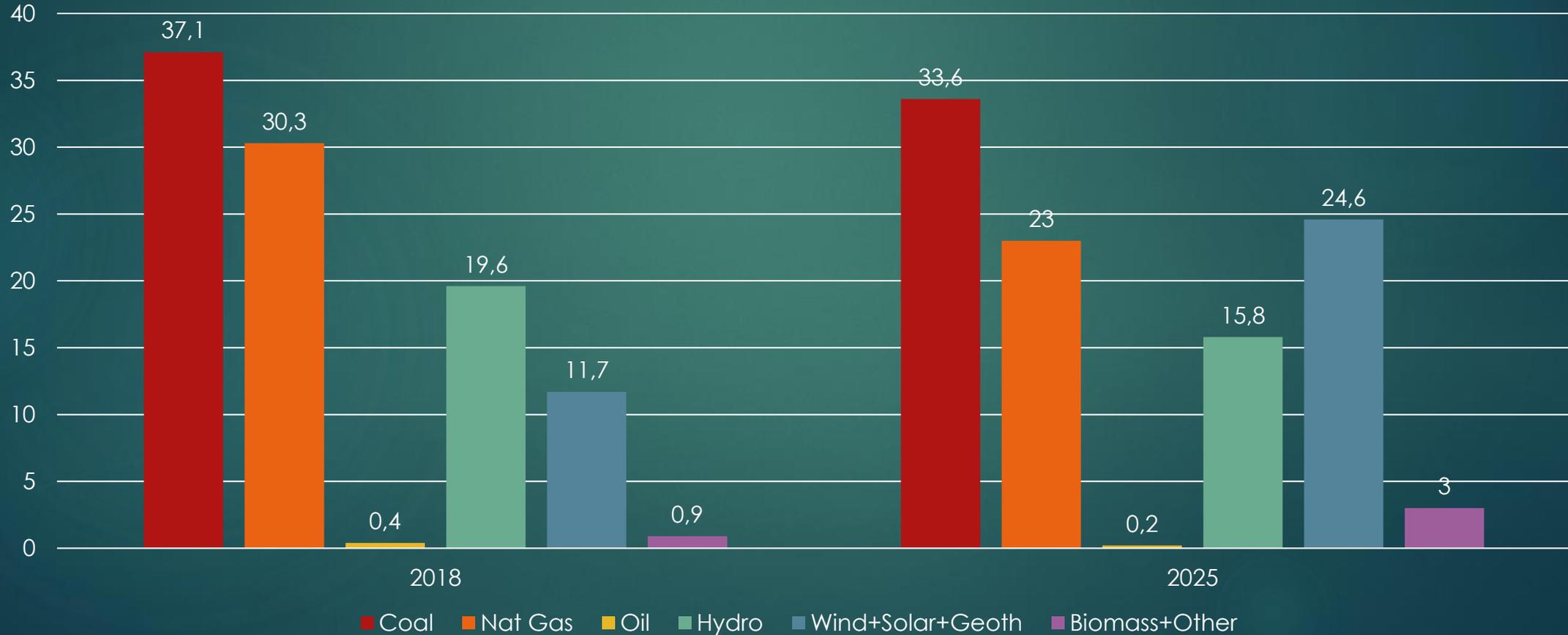
ELECTRICITY GENERATION BY SOURCE

%

Source: TEİAŞ, Ministry of Energy and Natural Resources

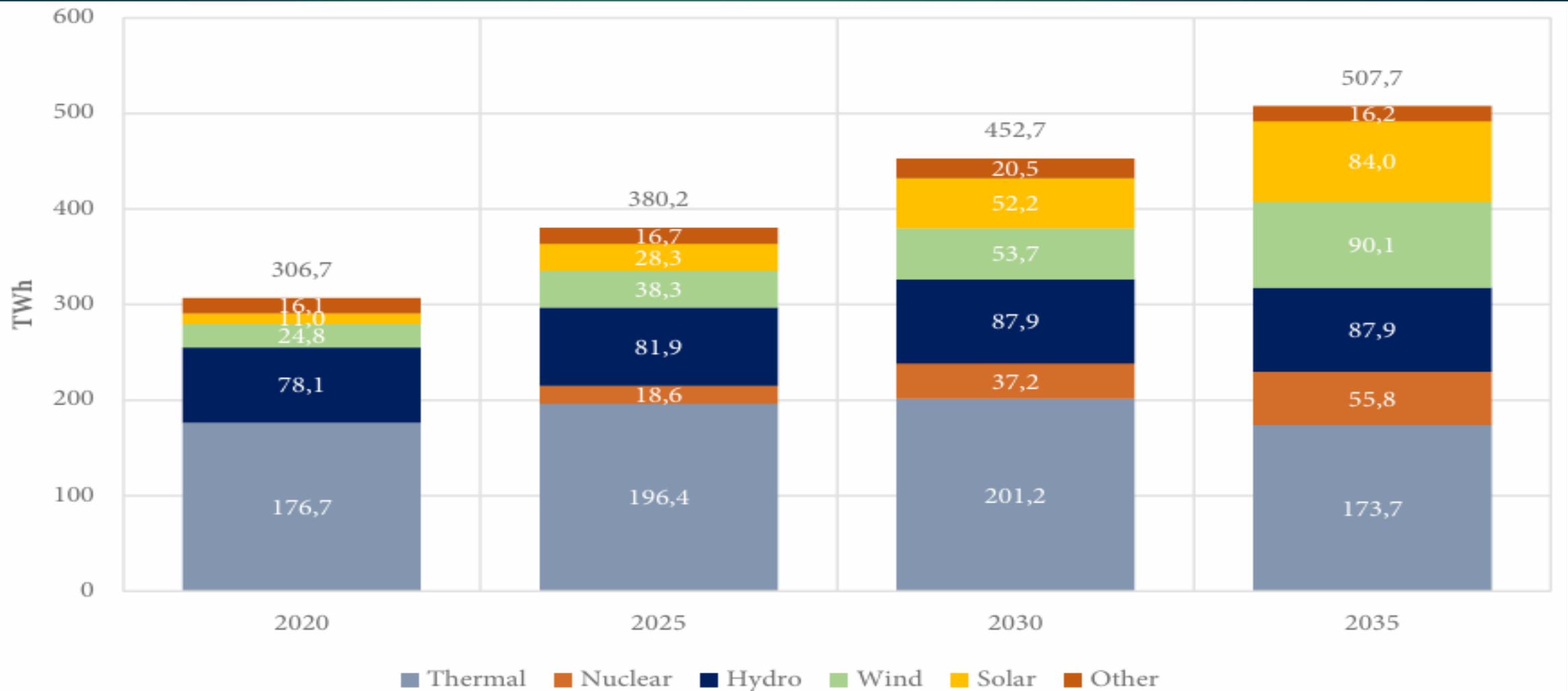
2018
275.1 GWh

2025
362.9 GWh



Planned development of electricity generation by source 2020-2035

2035: Renewables ~55%; Nuclear ~11%



Nuclear is Part of the Energy Security

Akkuyu Nuclear Power Plant Mersin Province

Reactor design: NPP 2006 (WER-1200), 4 x 1200 MW

Construction period: 2018-2028

03 Apr 2018: Ground breaking ceremony of the first unit

23 Apr 2023: Fresh nuclear fuel for Unit 1 delivered

Commissioning stage of the first unit ongoing

Other Projects

Sinop NPP Inceburun, Sinop Province,

İğneada NPP, Kırklareli Province,

Ongoing negotiations with RF, China, S. Korea

Small Modular Reactor Project

Talks with UK, USA, France



Source: Akkuyu Nükleer A.Ş.

ENERGY EFFICIENCY MILESTONES

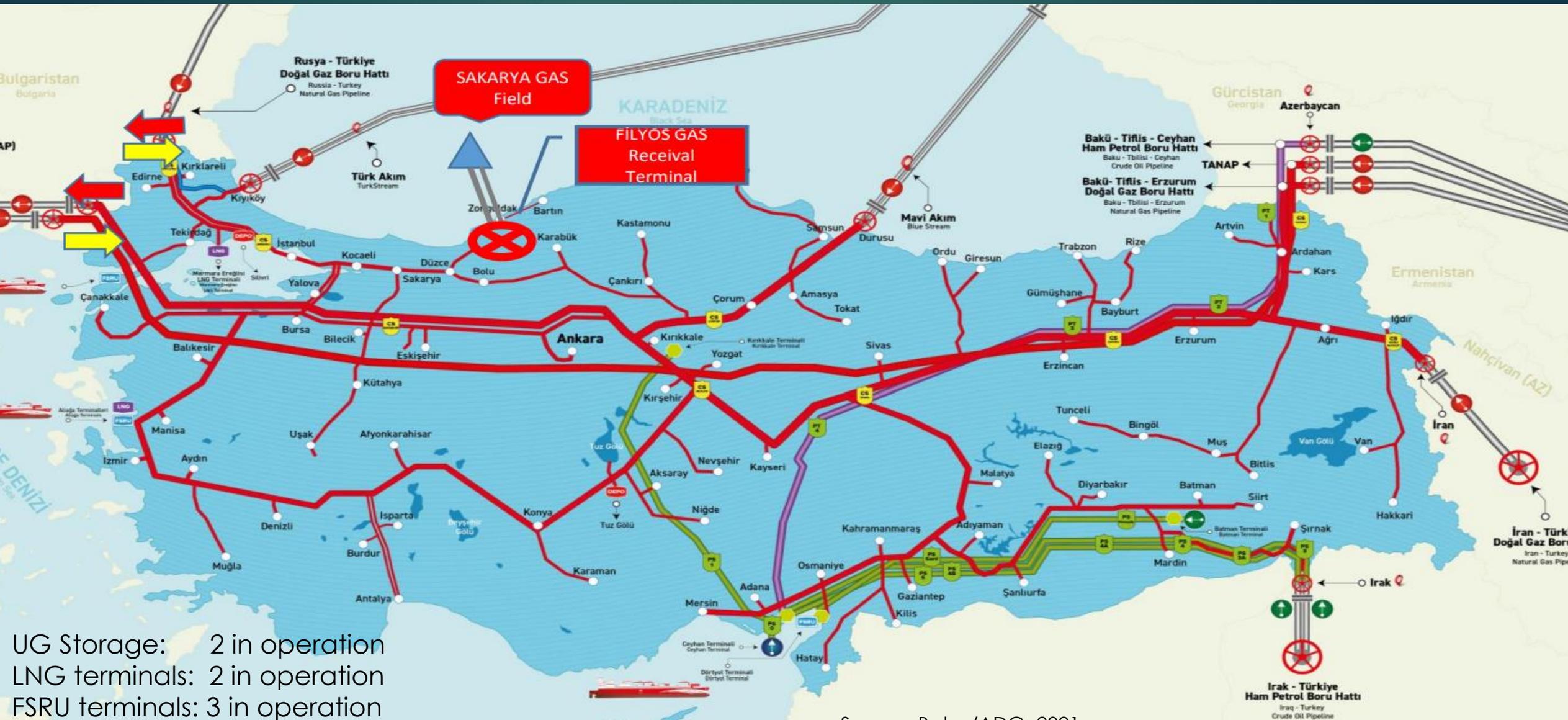
The first ever regulation for energy efficiency, 1977,
 Thermal Insulation Rules in Buildings Standard TS 825 from 2000 (revised in 2008),
 The Energy Efficiency Law No. 5627 adopted in 2007,
 Energy Efficiency Strategy 2012-2023, National Energy Efficiency Action Plan 2017-2023,
 The Energy Efficiency 2030 Strategy and II. National Energy Efficiency Action Plan, 2024,
 Cumulative savings: 37.1 mtoe, Emission reduction: 100 mt, Energy intensity reduction: 15%



	2024	2025	2026	2027	2028	2029	2030
Savings (mtoe)	1.197	1.120	1.266	1.403	1.589	1.703	1.884
Investments (USD)	2.452	2.656	2.544	2.513	3.086	3.227	3.574

Natural Gas as Transition Fuel

2025: Demand: ~ 58.6 bcm, Domestic production 3.2 bcm



UG Storage: 2 in operation
LNG terminals: 2 in operation
FSRU terminals: 3 in operation

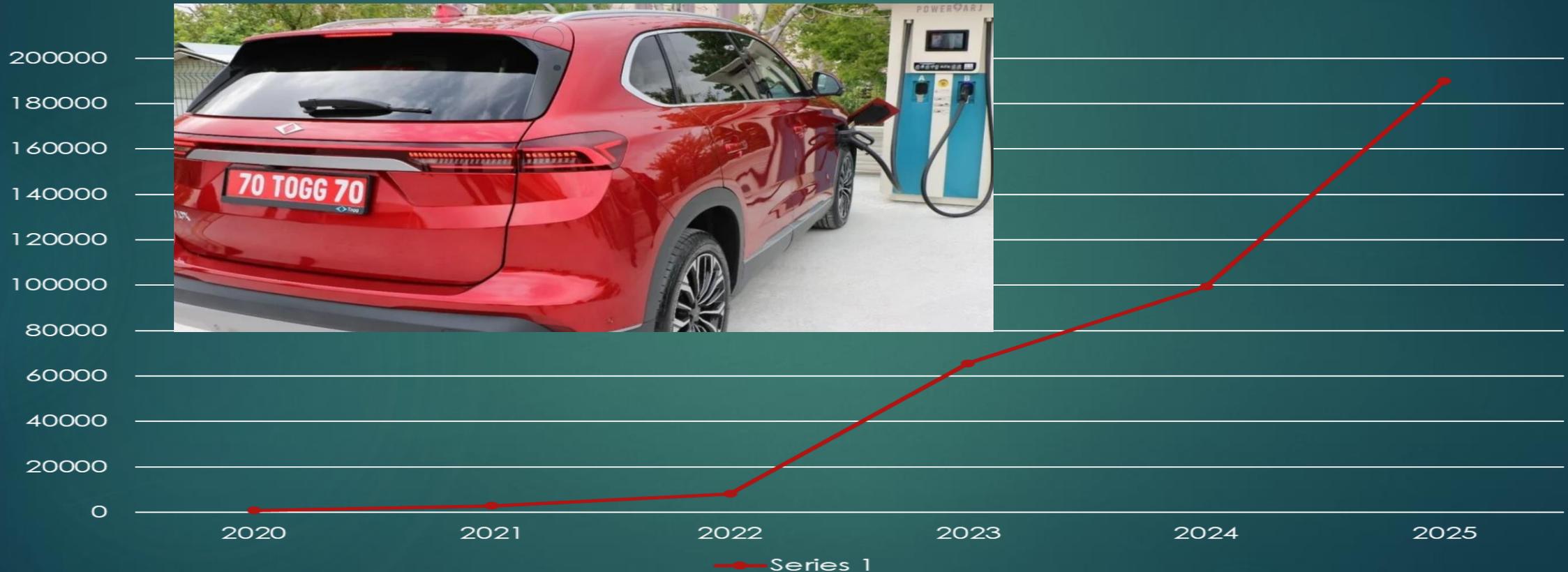
ENERGY TRANSITION IN TRANSPORT

High Speed Railways - Urban Railbound Transport as of 2025



ELECTROMOBILITY IN TÜRKİYE

Türkiye ranks 4th in Europe in electric car sales.
EV reached 17% market share with ~190,000 in 2025.



(Source: TEHAD, ODMD, EMBER)

ELECTROMOBILITY

Public Charging stations as of January 2026

Charging Stations: 7,843

Charging Points: 39,694

AC Charger: 22,635

DC Charger: 17,059

Source: Energy Market Regulatory Authority



Source: wrightcoating.com



Thank you

HYY629@YAHOO.COM