



JICA Energy Policy Program 2026

Country Report: Egypt's Energy Policy

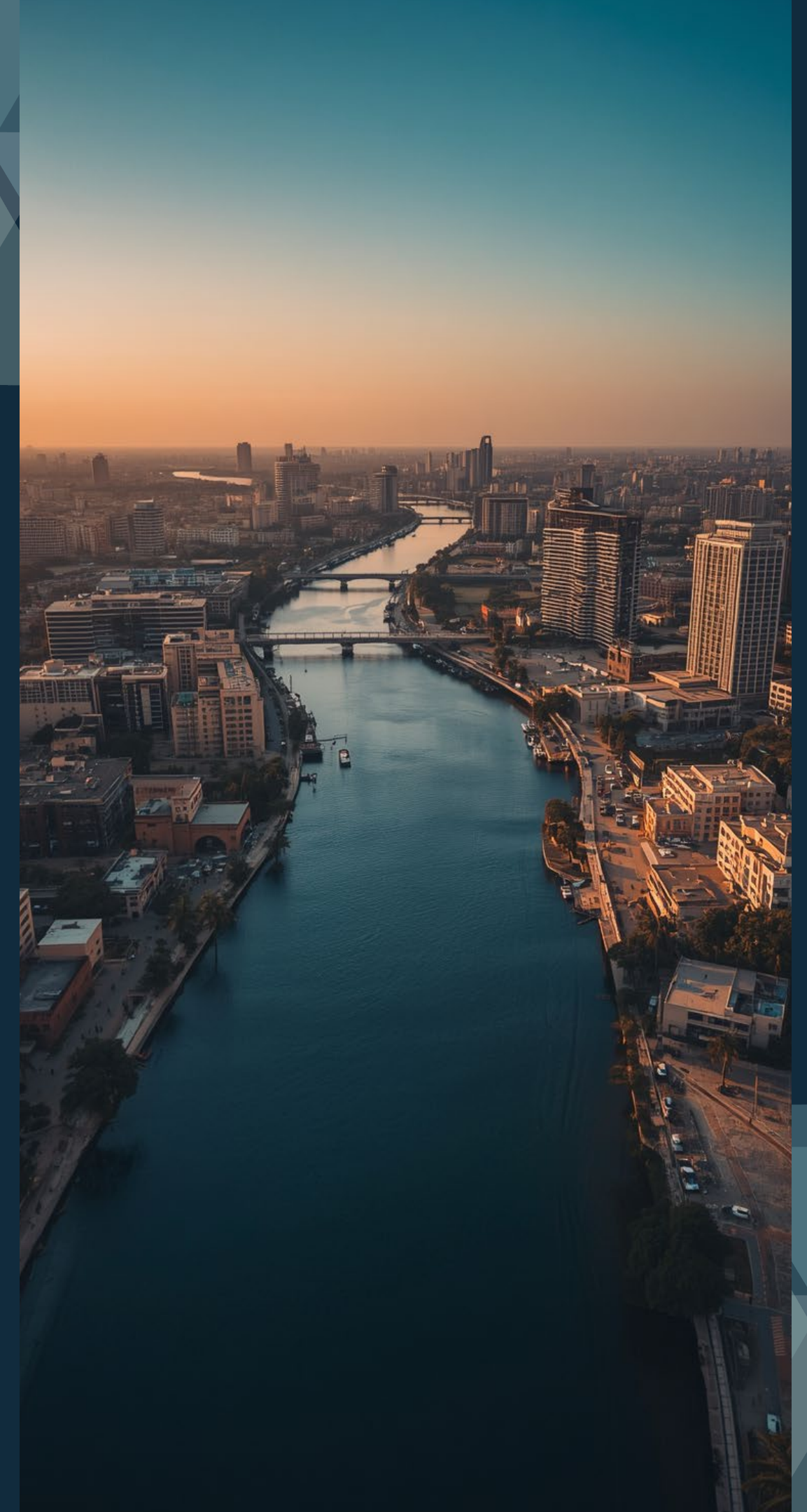


Demand –Supply Trends, Outlook and Policy Priorities

Presented By: Shaymaa Tarek Soltan

Country Profile: Egypt

- Official name: Arab Republic of Egypt
- Location: North Africa, with Sinai extending into Asia
- Capital: Cairo
- Total area: around 1.002 million km²
- Inhabited area: around 78,990 km², representing about 7.8% of total area
- Strategic position connecting Africa, Asia and Europe
- The Suez Canal is a major route for global trade and energy flows
- Key energy context: large domestic market, rising demand, and regional energy-hub ambitions



Economic Indicators & Energy Governance

- Population: 116.5million in 2024 —World Bank
- GDP: USD389.1 billion in 2024 —World Bank
- GDP per capita: USD 3,338.5 in 2024 —World Bank
- Real GDP growth: 2.4% in FY 2023/24, rising to about 4.5% in FY 2024/25
- Number of households: 26.9 million in 2026 —CAPMAS-reported figure

Energy Governance / Key Institutions

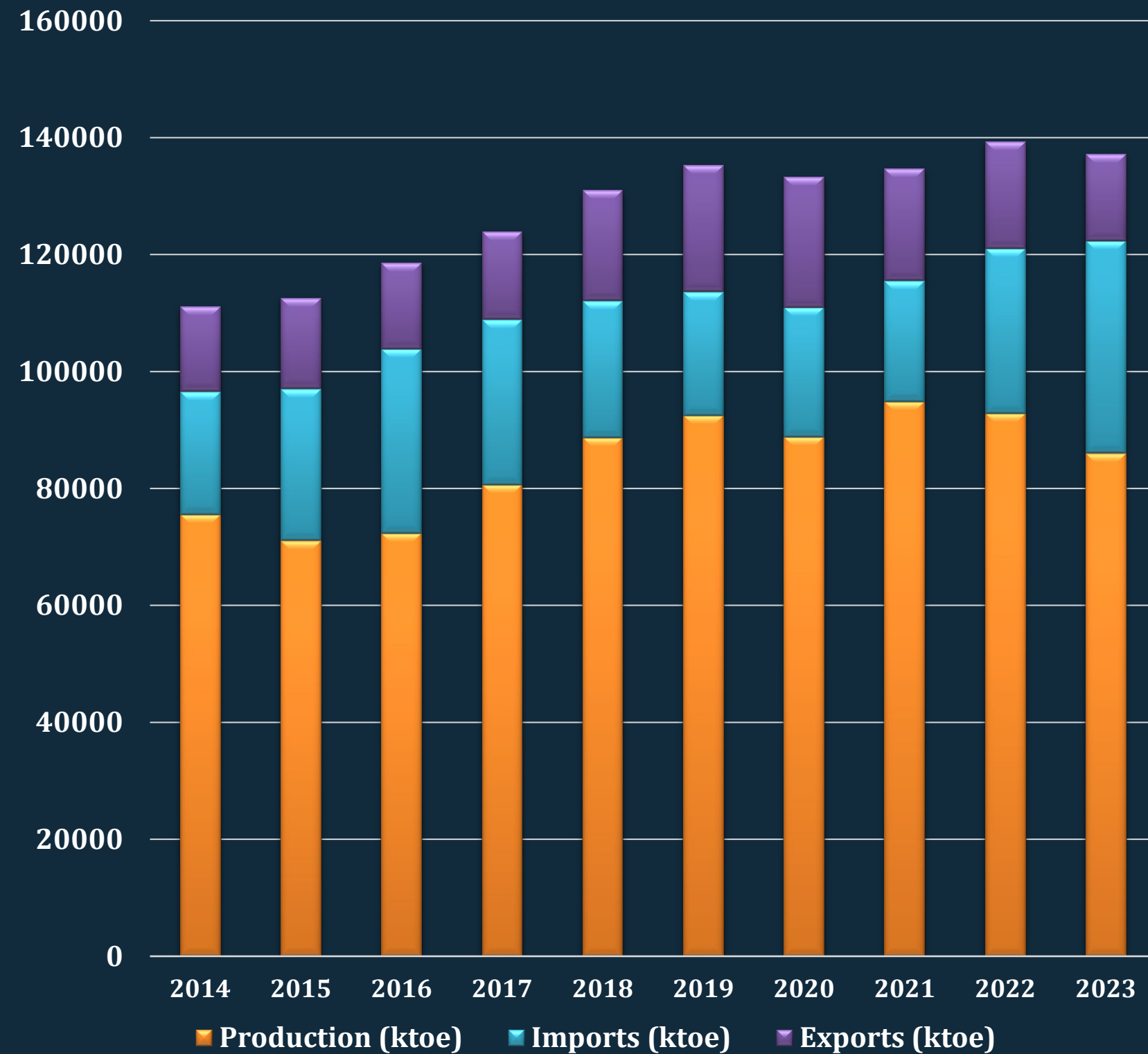
- Ministry of Petroleum and Mineral Resources
- Ministry of Electricity and Renewable Energy
- Egyptian General Petroleum Corporation —EGPC
- Egyptian Natural Gas Holding Company —EGAS
- New and Renewable Energy Authority —NREA
- Egyptian Electric Utility and Consumer Protection Regulatory Agency —

EgyptERA

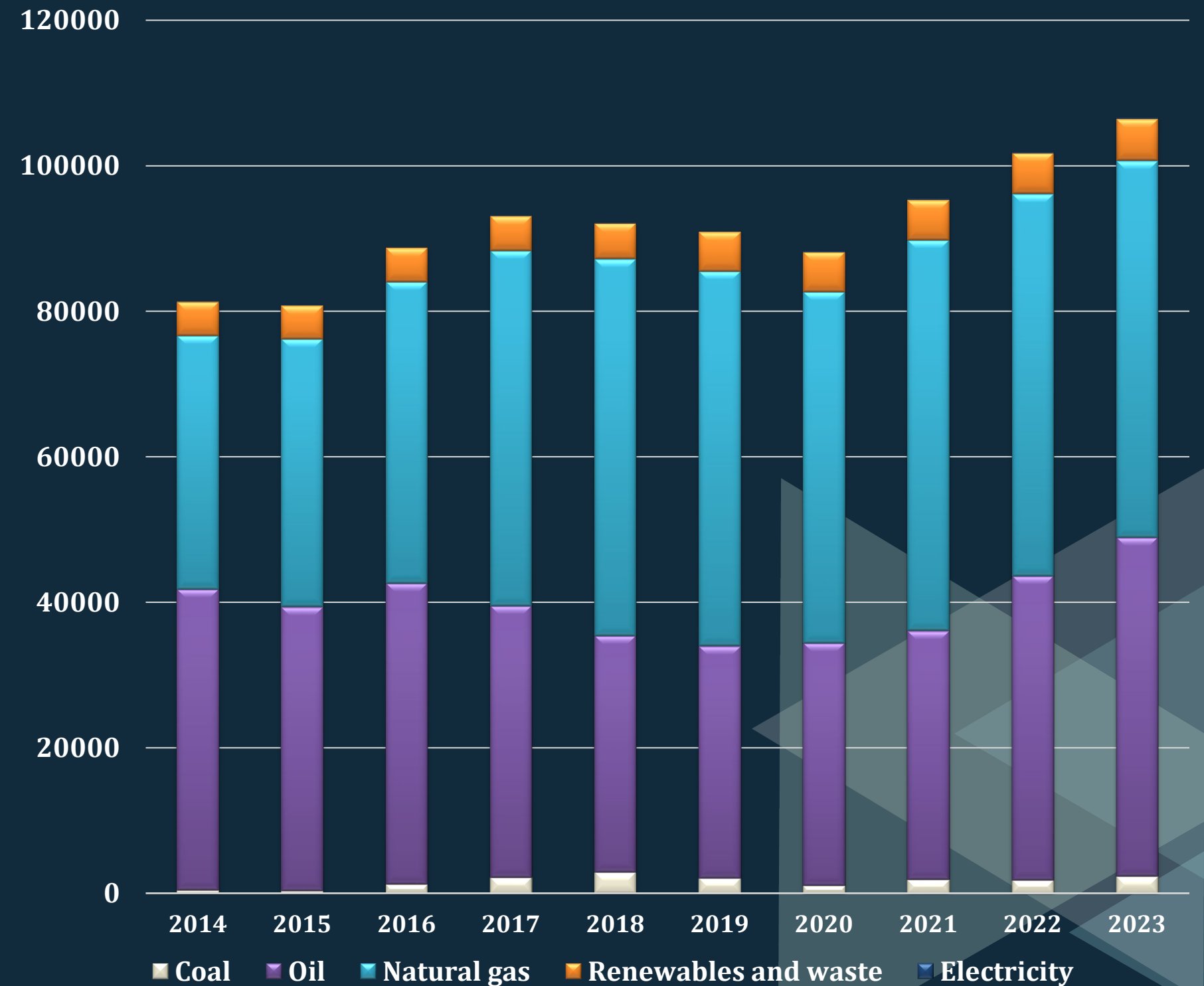


Primary Energy Supply (ktoe)

Primary energy supply by source

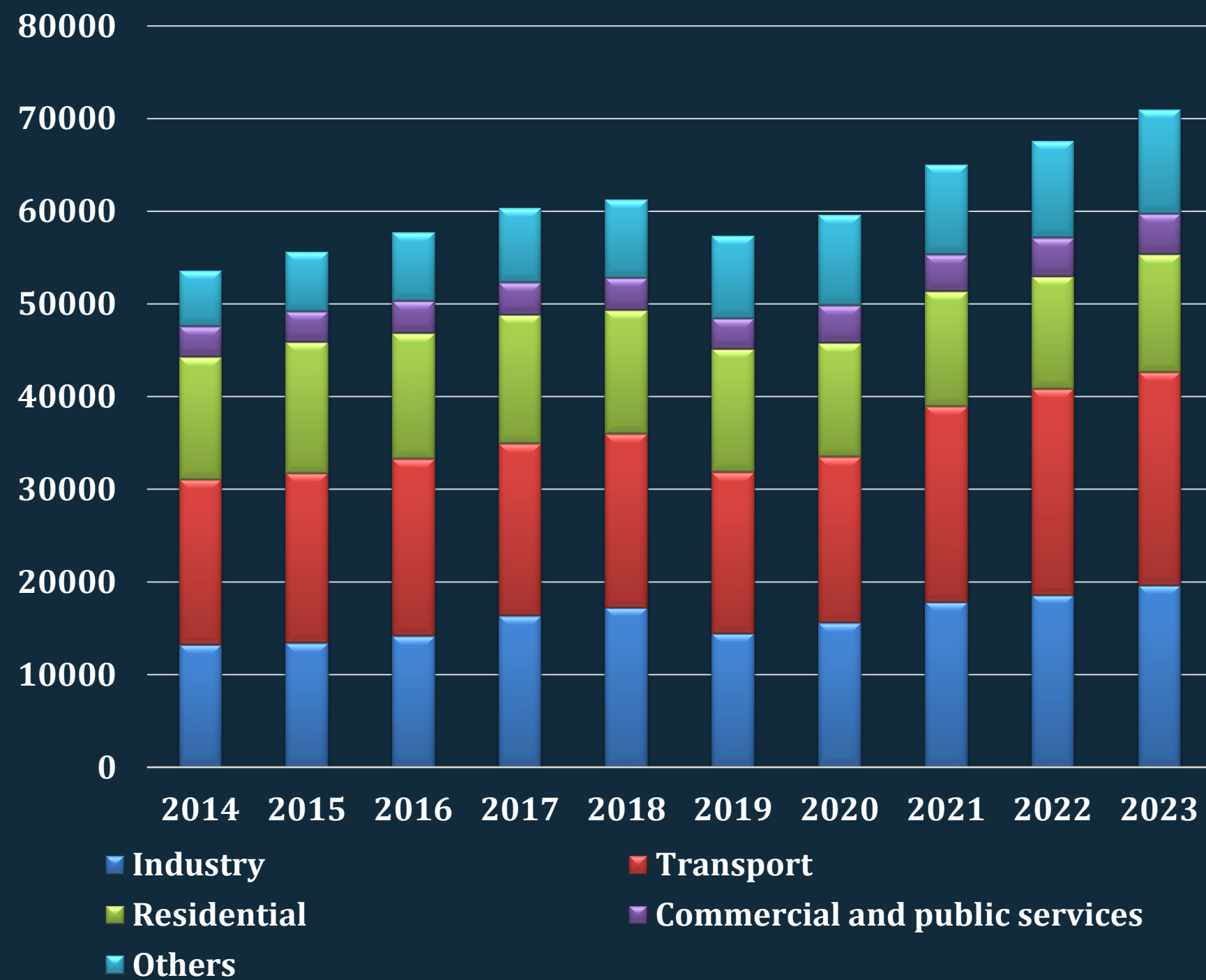


Primary Energy Supply by Energy Source

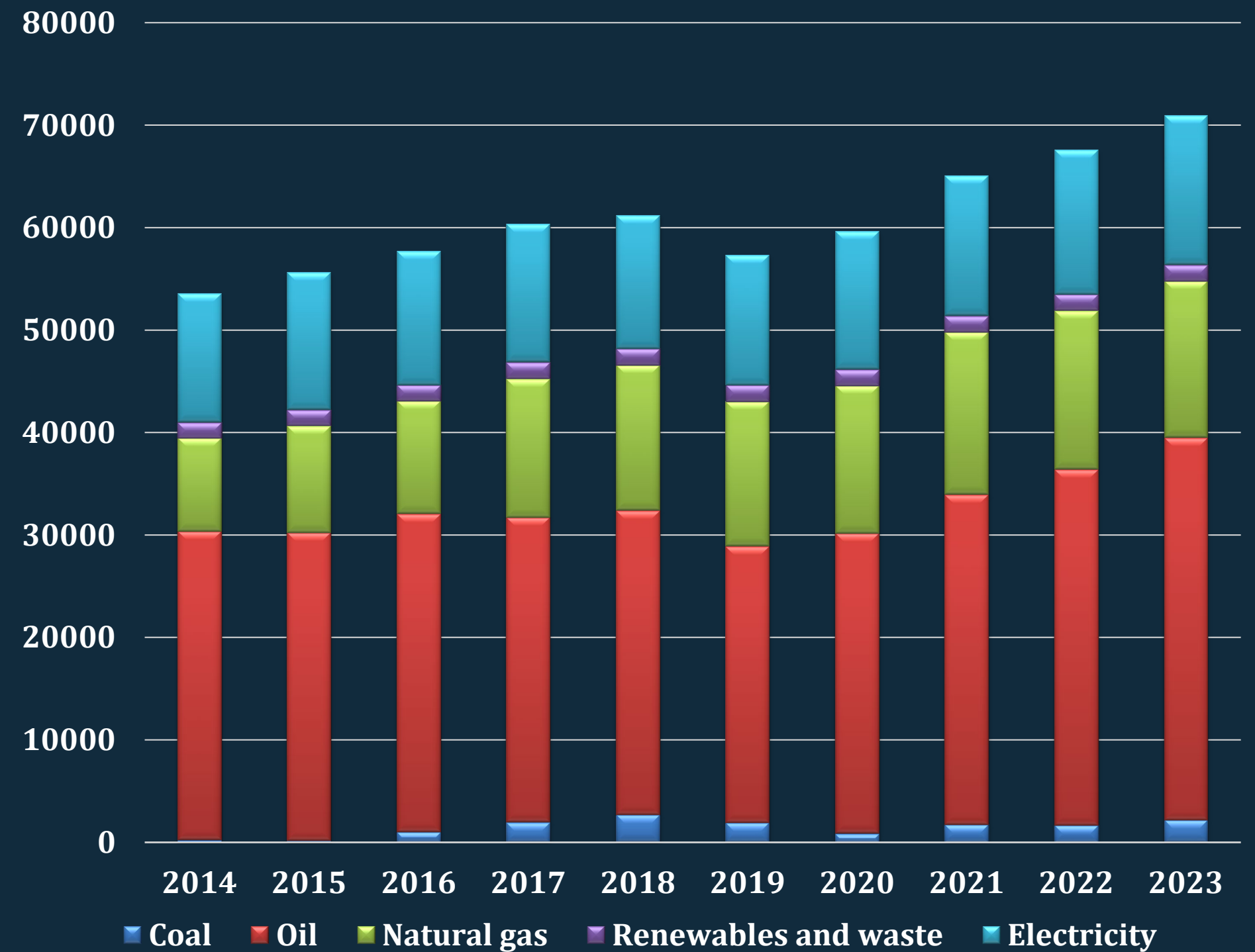


Final Energy Consumption (ktoe)

Final Energy Consumption by Sector

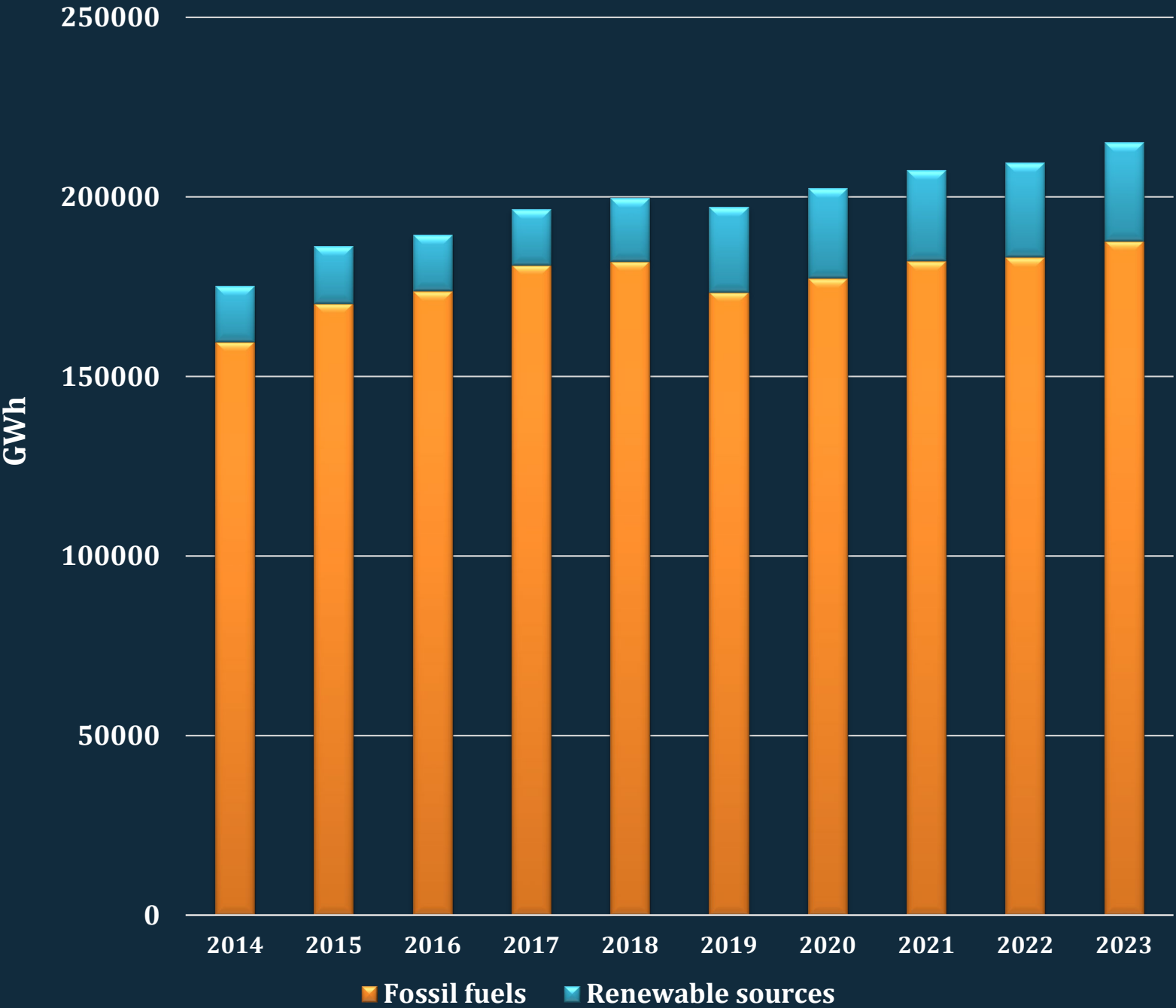


Final Energy Consumption by Energy Source

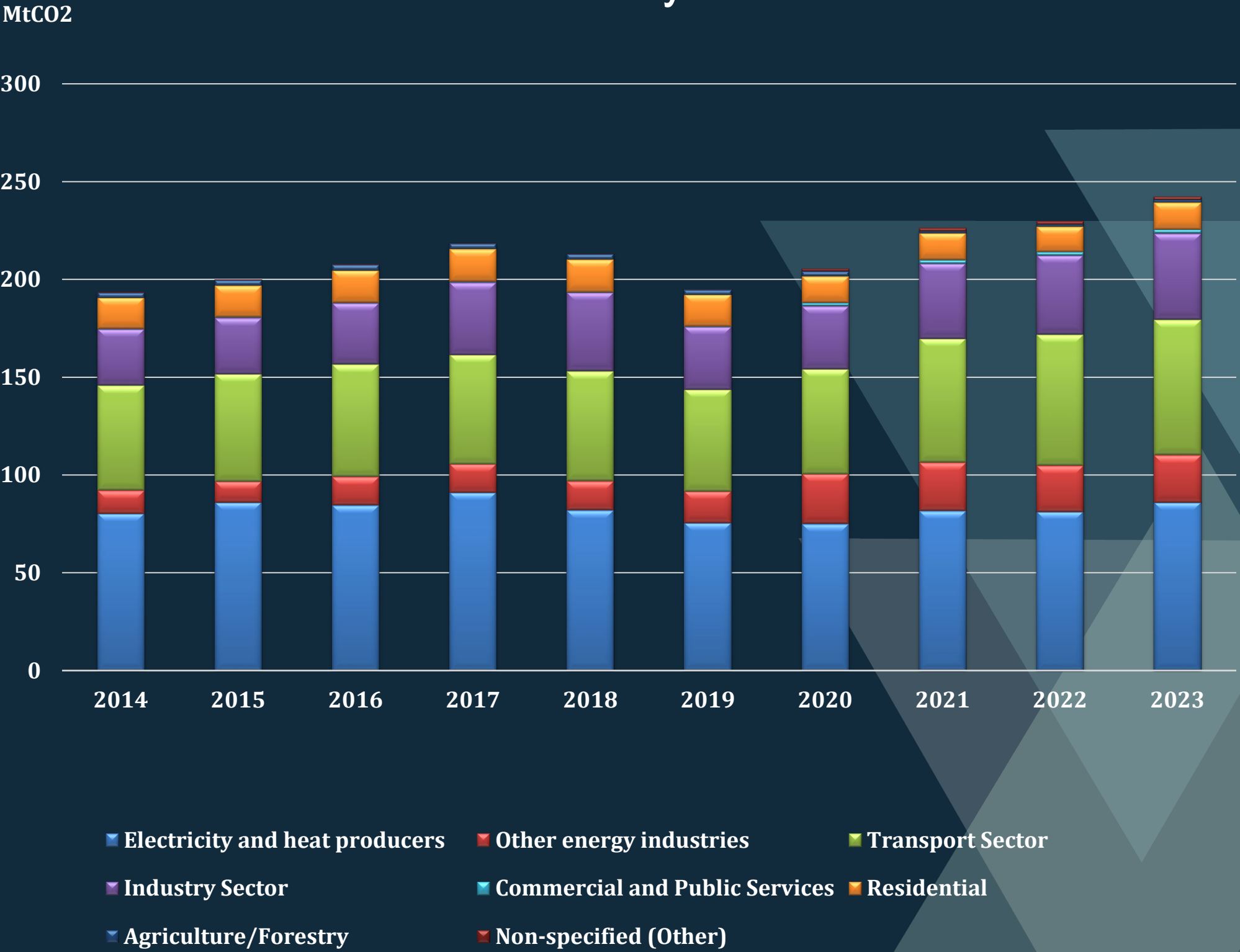


Electricity Generation & CO₂ Emissions

Electricity Generation by Energy Source

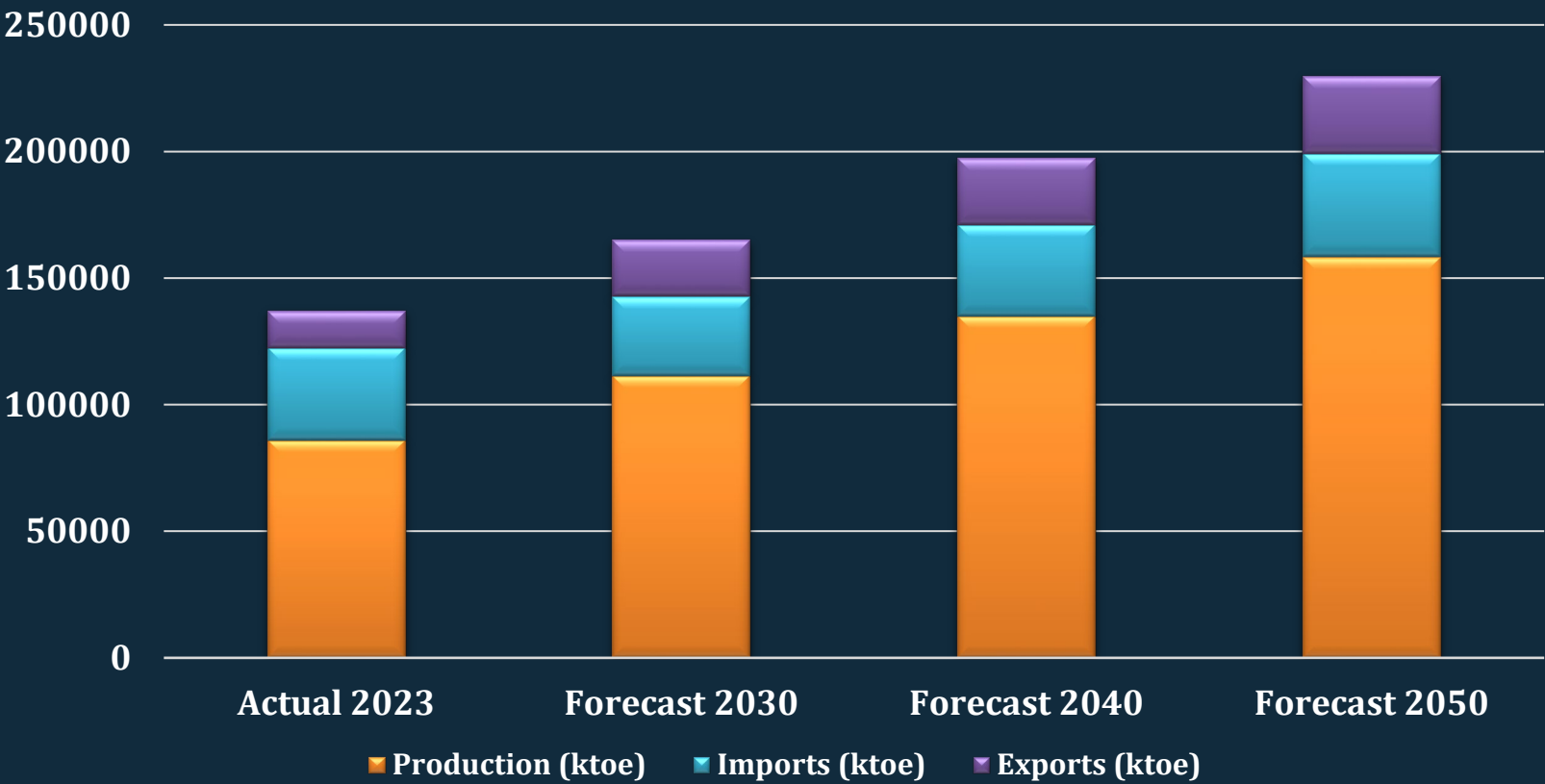


CO₂ Emissions by Sector

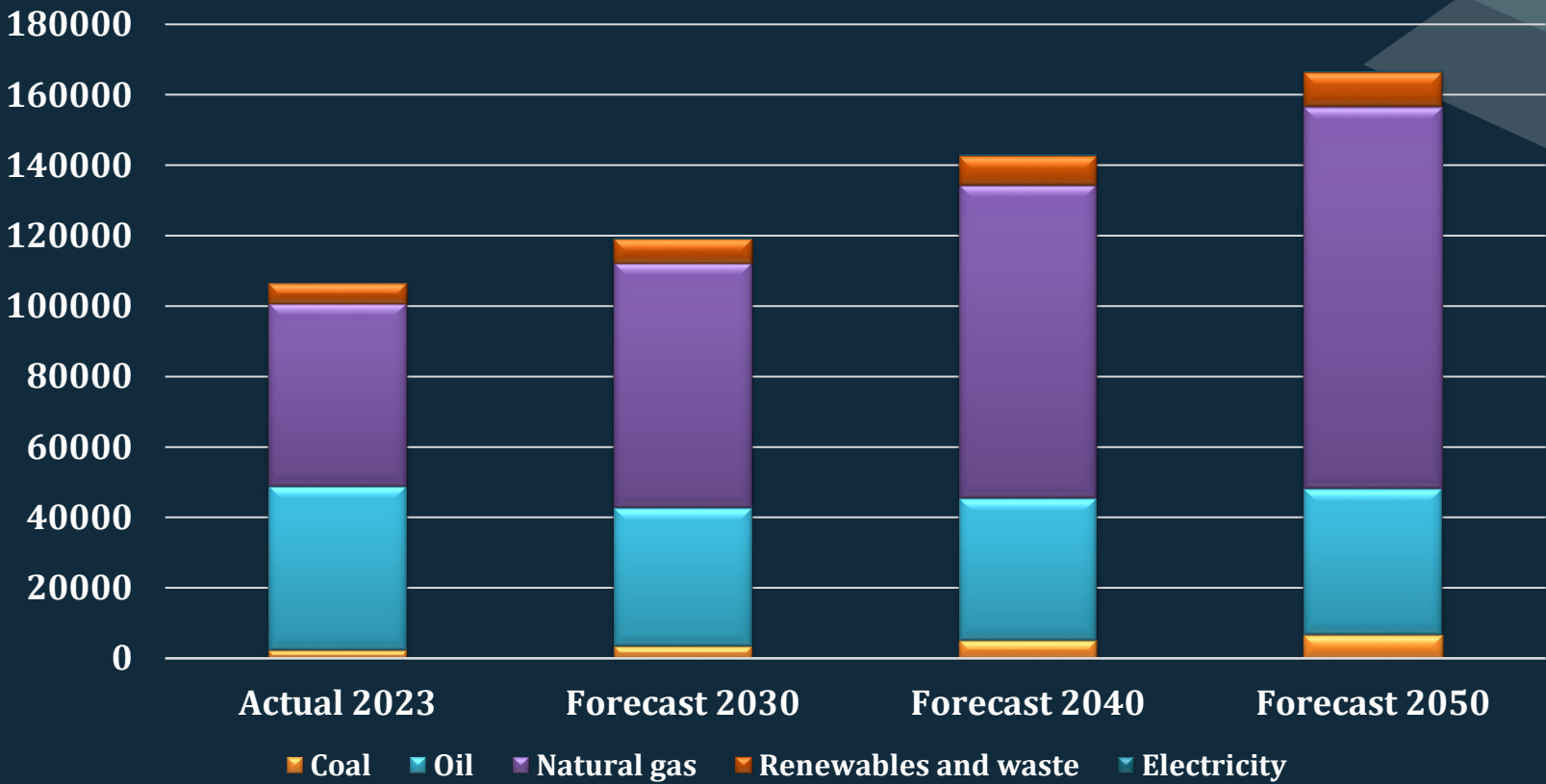


Energy Demand & Supply Outlook to 2050 (ktoe)

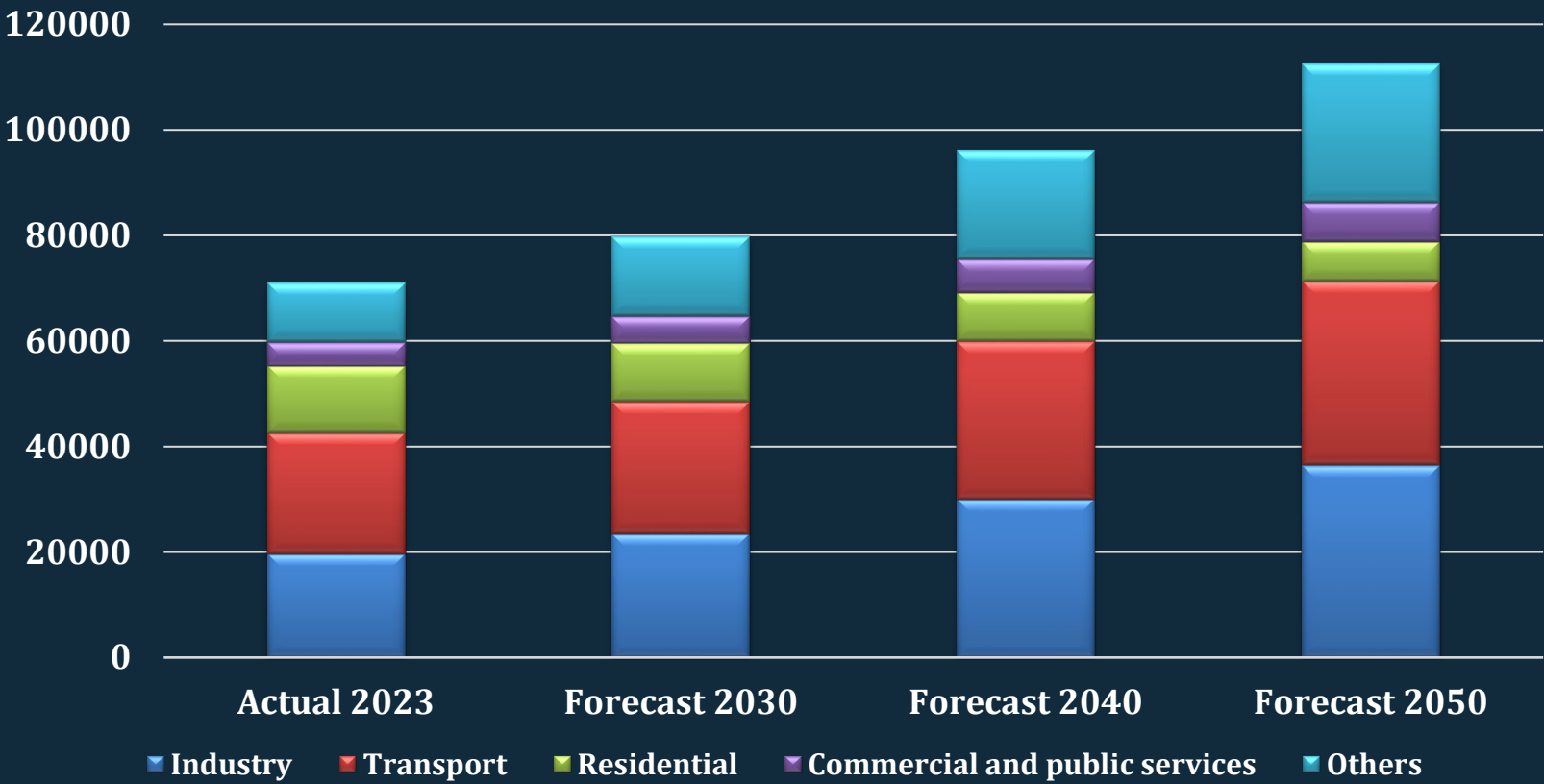
Primary energy supply by source



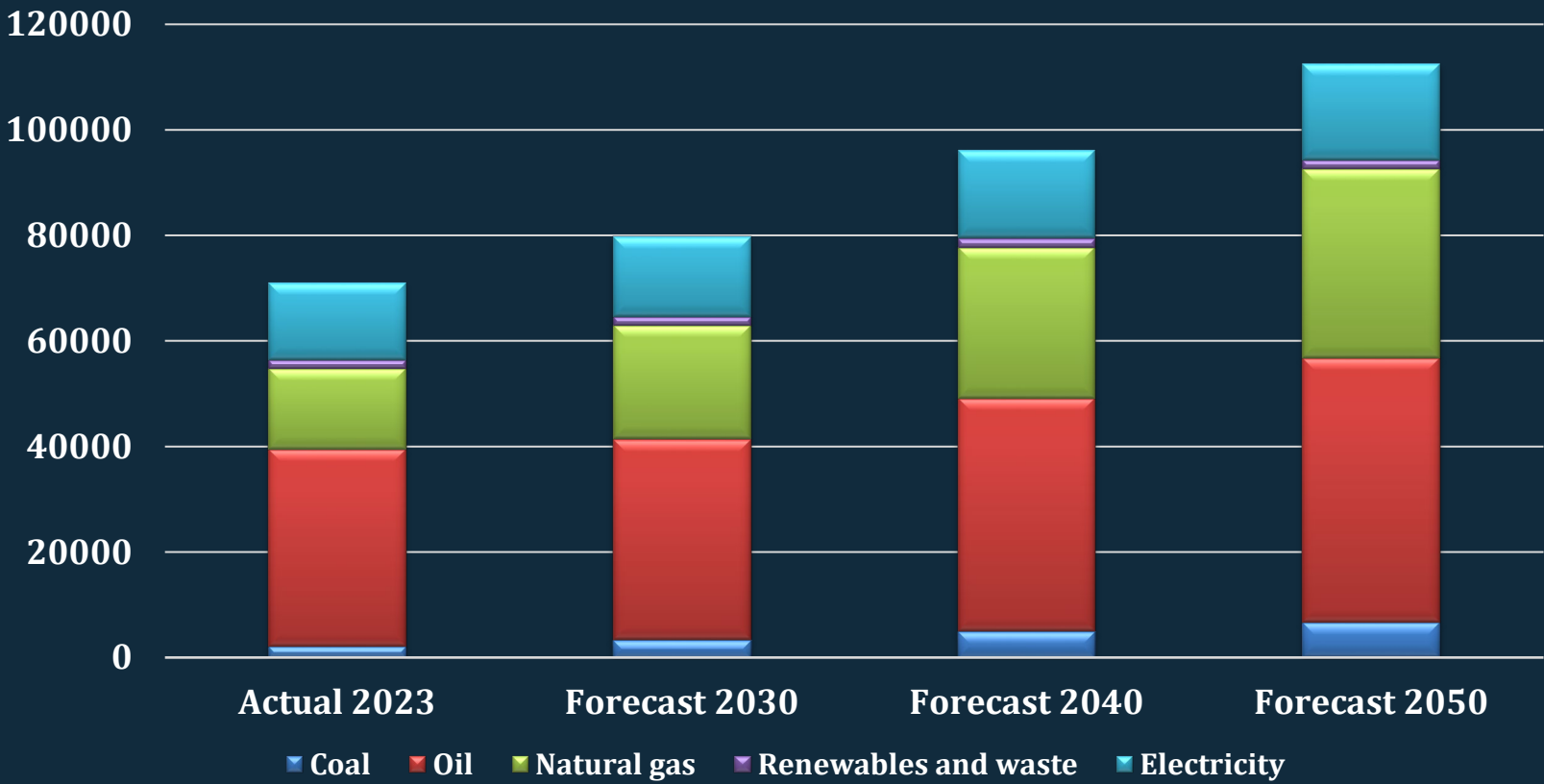
Primary Energy Supply by Energy Source



Final Energy Consumption by Sector



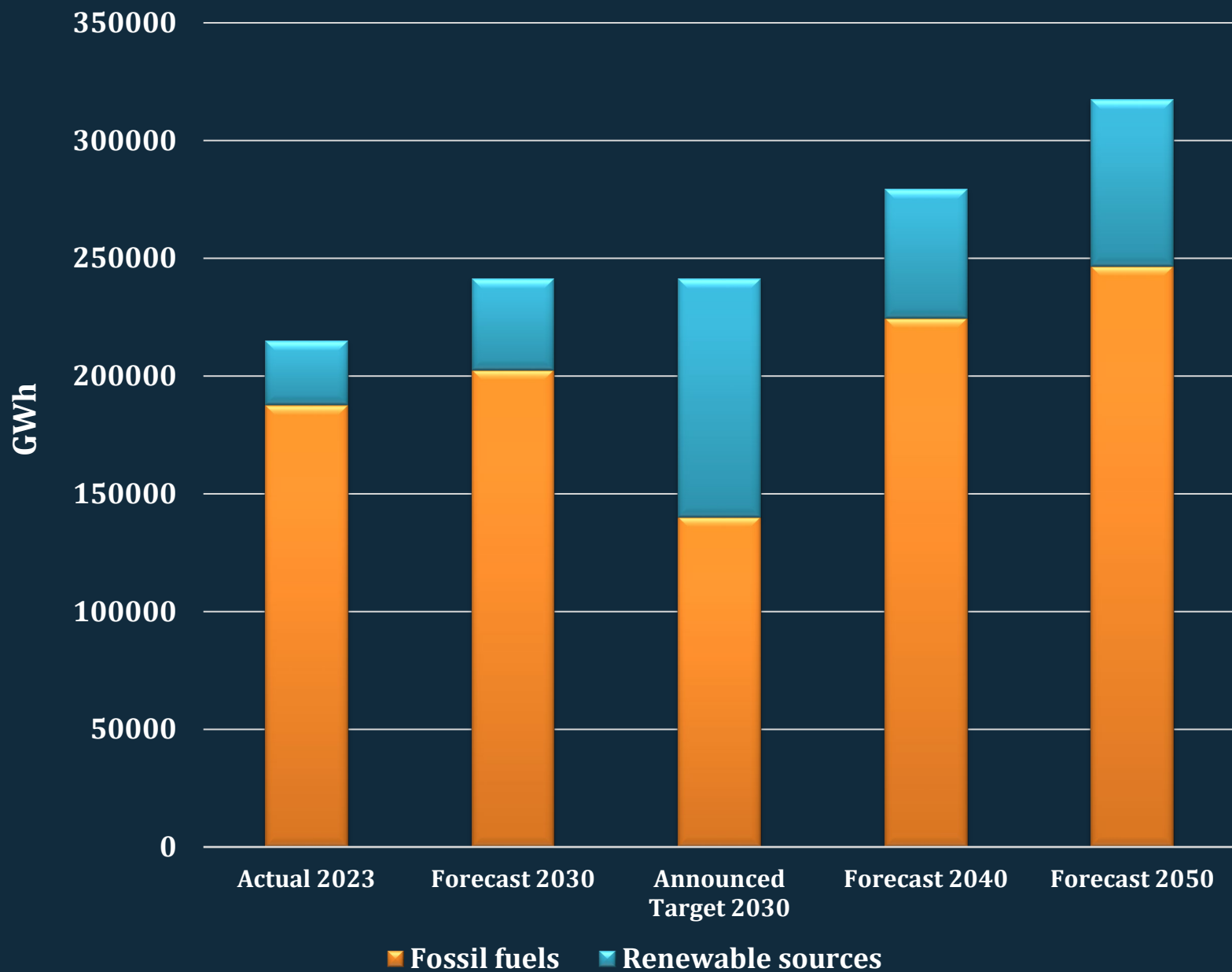
Final Energy Consumption by Energy Source



Historical data source: IEA, World Energy Balances Highlights 2025 . Outlook Method: Author 's indicative estimates using linear extrapolation from 2014–2023 historical data, due to limited consistent official long term projections across all required categories. This outlook is indicative and should not be interpreted as an official forecast

Electricity Generation & CO2 Emissions Outlook

Electricity Generation by Energy Source

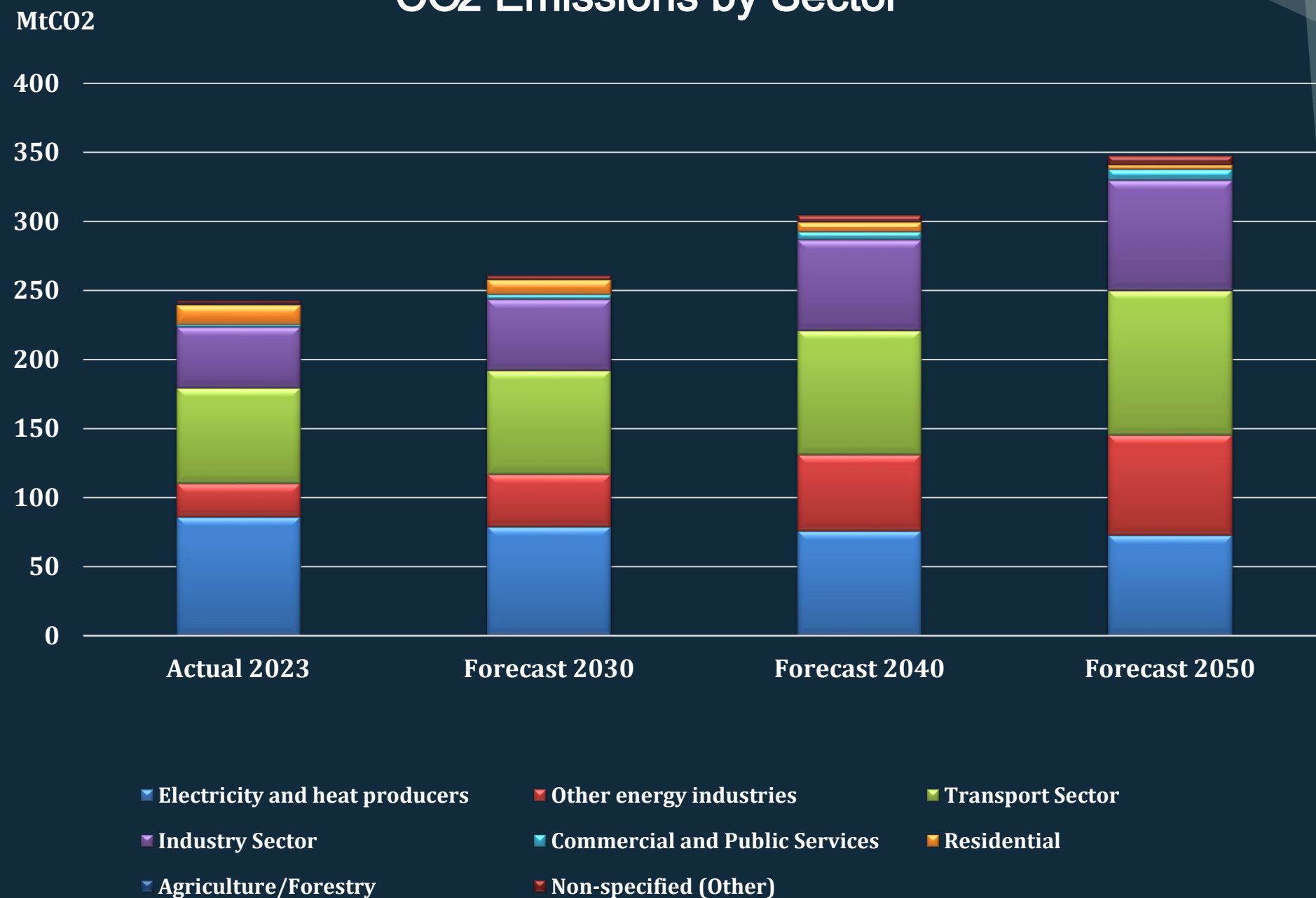


Historical data source: IEA, World Energy Balances Highlights 2025.

Outlook method: Author's indicative linear extrapolation based on 2014–2023 historical data.

Announced target: The 2030 renewable electricity target is presented separately as a policy scenario. It is applied to the projected total electricity generation in 2030, not to the 2023 baseline.

CO2 Emissions by Sector



Historical data source: IEA / energy-related CO₂ emissions dataset used for historical sectoral emissions.

Outlook method: Author's indicative linear extrapolation based on 2014–2023 historical data.

Note: Negative projected values, if any, were capped at zero because physical CO₂ emissions cannot be negative. Power-sector emissions may be lower if the 2030 renewable electricity target is achieved.

Current Energy Policy and Measures

Based on recent policy statements and public reporting, Egypt's current energy policy can be summarized in three main directions :

1.Expanding renewable energy and diversifying the electricity mix

- Target: 42% renewable electricity by 2030
- Large solar and wind projects under development
- Aim: diversify electricity mix and reduce fossil -fuel dependence

2. Maintaining natural gas as a transition and energy -security fuel

- Gas remains central for electricity and energy security
- Egypt maintains focus on gas alongside renewables
- LNG/gas infrastructure supports regional energy cooperation

3. Improving energy efficiency and lowering emissions intensity

- Efficiency helps manage rising demand
- Reduces pressure on fuel supply
- Supports Egypt 's low -carbon development direction



Major difficulties and bottlenecks

Egypt's energy policy faces several implementation challenges, especially in financing, supply security and infrastructure readiness.

1. Financing and investment requirements

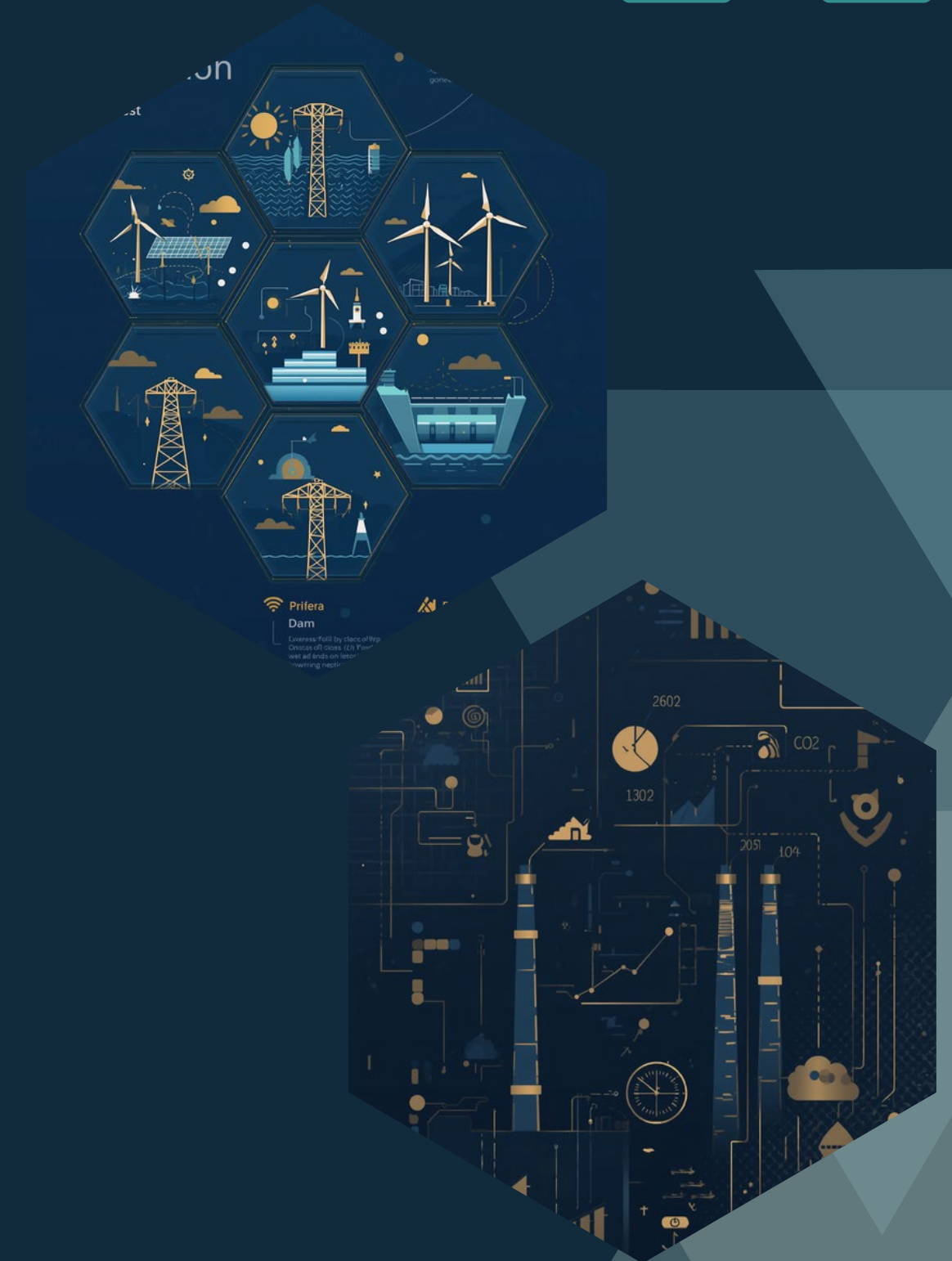
- Renewables, grids and storage need large investment
- International finance is important for achieving targets

2. Gas supply pressure and import exposure

- Domestic gas production declined in recent years
- LNG imports increase exposure to external supply and price risks

3. Grid integration and infrastructure readiness

- More renewables require grid upgrades and storage
- Stronger coordination is needed for implementation



Subjects to Learn & Superior's Expectations

Subjects I would like to learn

- Long-term energy policy planning and scenario development
- Balancing energy security, affordability and decarbonization
- Renewable energy integration into national energy systems
- Energy efficiency policies and practical implementation tools
- Japan's experience in energy transition, technology and policy coordination

Expectation of my superior

- Strengthen practical understanding of energy policy design and implementation
- Transfer relevant knowledge to support energy transition and efficiency initiatives
- Identify applicable practices that can benefit Egypt's energy sector
- Build professional networks and explore future areas of cooperation



Appendix: Energy Prices in Egypt

Energy item	Latest value	Unit	Source
Gasoline 95 octane	EGP 24.00	liter	Reuters; Egypt Oil & Gas citing MoPMR, Mar. 2026
Gasoline 92 octane	EGP 22.25	liter	Reuters; Egypt Oil & Gas citing MoPMR, Mar. 2026
Gasoline 80 octane	EGP 20.75	liter	Reuters; Egypt Oil & Gas citing MoPMR, Mar. 2026
Diesel / gas oil	EGP 20.50	liter	Reuters; Egypt Oil & Gas citing MoPMR, Mar. 2026
Vehicle natural gas	EGP 13.00	m ³	Egypt Oil & Gas, citing MoPMR, Mar. 2026
Butane cylinder, 12.5 kg	EGP 275	cylinder	Egypt Oil & Gas, citing MoPMR, Mar. 2026
Residential electricity, up to 2,000 kWh/month	Unchanged	tariff bands	Reuters, April 2026
Higher-use residential electricity	+16% average increase	tariff change	Reuters, April 2026
Commercial electricity	+20% average increase	tariff change	Reuters, April 2026
Natural gas — cement producers	USD 14.00	MMBtu	Reuters, May 2026
Natural gas — iron, steel, petrochemicals and non-nitrogen fertilizers	USD 7.75	MMBtu	Reuters, May 2026
Natural gas — other industrial activities	USD 6.50–6.75	MMBtu	Reuters, May 2026



Appendix: Energy -Related Investments

Investment area	Project / measure	Capacity / value	Domestic or overseas link	Source
Renewable energy — solar	Scatec solar power plant	1 GW, investment about USD 600 million	Domestic generation	Reuters, 2025
Renewable energy — wind	Scatec Gulf of Suez wind project	900 MW, estimated cost about USD 1 billion	Domestic generation	Reuters, 2025
Renewable energy — wind	Red Sea Wind Energy project	650 MW	Domestic generation	Reuters, 2025
Green hydrogen / renewables	7 green hydrogen MoUs in SCZone	Potential investment about USD 40 billion over 10 years	Domestic production with export orientation	Reuters, 2024
Green fuels / SCZone infrastructure	SCZone infrastructure investment	USD 3 billion already invested; similar future investment planned	Domestic infrastructure supporting green fuels and exports	Reuters, 2024
Electricity interconnection	Egypt–Greece undersea power cable	3,000 MW, about EUR 4 billion / USD 4.5 billion	Overseas electricity export link to Europe	AP, 2025
Gas / LNG regional cooperation	Cyprus gas development using Egypt LNG infrastructure	Use of Egypt's LNG facilities for regional gas commercialization	Overseas/regional energy cooperation	Reuters, 2026
LNG supply security	LNG deals with Shell and TotalEnergies	Around USD 3 billion, 60 LNG cargoes for 2025	Import/security of supply	Reuters, 2025
Natural gas supply	Leviathan gas supply to Egypt	130 bcm through 2040, deal value reported around USD 35 billion	Regional gas imports / supply security	FT / Reuters-reported context
Petrochemicals / hydrogen	Ain Sokhna petrochemical complex	USD 2 billion first phase; possible USD 4.5 billion later phase	Domestic industrial and export-oriented investment	Reuters, 2025



Additional Energy Policy Context



- Egypt's energy transition is aligned with Egypt Vision 2030 and National Climate Change Strategy 2050
- Renewable electricity target : 42% by 2030
- The NWFE Program (Nexus of Water, Food and Energy), led by Egypt's Ministry of Planning, Economic Development and International Cooperation, mobilizes climate finance to support priority projects in water, food and energy, including energy-transition investments .
- Egypt seeks a regional role through natural gas, LNG and electricity interconnection

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Thank You For Your Attention

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