

Korea (Rep.)

Trilemma Rank
31

Trilemma Score
73.4

Balance Grade
BAC

Korea shows a varied Trilemma performance with an unbalanced triangle, with a balance grade of BAC. It is ranking 31st globally.

Population
51.7 (millions)

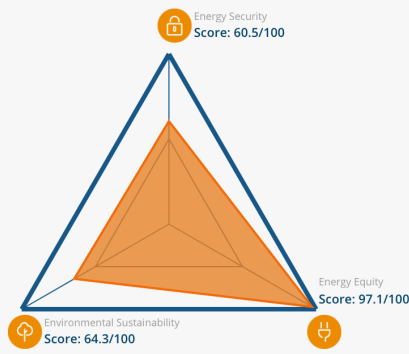
Land Area
97.5 (thousand sq. km)

GDP Per Capita
31,363 (PPP US\$)

Industrial Sector
35.1 (% of GDP)

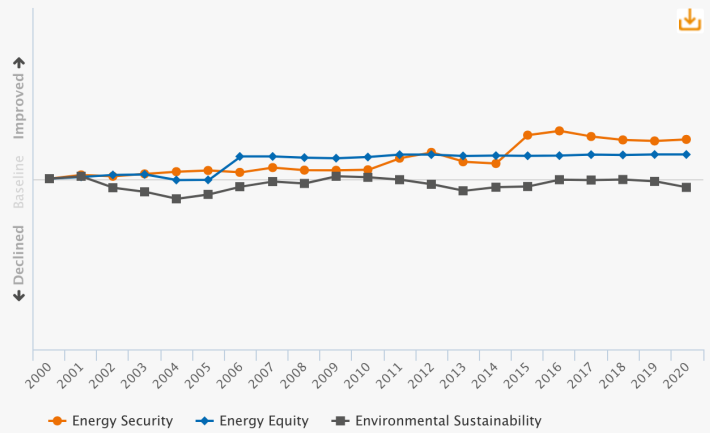
GDP Growth
2.7 (annual %)

Balance



Historical Trilemma Scores

Trend lines track the country's performance in each dimension, beginning with a baseline of 100 in the year of 2000



Trends and Outlook

Crucial recent policy measures to enhance energy security and environmental sustainability include: increasing the share of renewable energy in electricity generation up to 30-35% by 2040 and increase use of natural gas including US shale gas. Also, encouraging the use of energy management systems, including BEMS (Building Energy Management Systems) and FEMS (Factory Energy Management System). A part of the government policy is introducing DR (Demand Response) markets and AI & IoT technologies to enhance energy efficiency measure 38% by 2040.

The Korean Government announced its third national energy master plan in April 2019, to be implemented from 2019 to 2040. The energy master plan is the nation's top-level power plan to set forth a vision for its energy policies and strategies. Based on critical agendas drawn in the program, policymakers focus on tasks based on the national vision of achieving sustainable economic development and a higher quality of living. The five policy tasks are:

- 1) Realization of high energy efficiency society through the innovation of energy demand management.
- 2) Building an integrated smart energy system driven by renewable energy.
- 3) Developing future energy business to create new jobs and market.
- 4) Implementation of a nation driven and decentralized energy governance.
- 5) Establishing infrastructure for energy transition and 4th industrial revolution.

Key metrics

Metrics are determined relative to other countries, with a full bar representing a score of 100.

	2020 Performance	Trend 2010-20
Energy security		
Import dependence	Progress bar	▲
Diversity of electricity generation	Progress bar	▼
Energy storage	Progress bar	▲
Energy equity		
Access to electricity	Progress bar	▶
Electricity prices	Progress bar	▼
Gasoline and diesel prices	Progress bar	▲
Environmental sustainability		
Final energy intensity	Progress bar	▼
Low carbon electricity generation	Progress bar	▼
CO2 emissions per capita	Progress bar	▼
Country context		
Macroeconomic stability	Progress bar	▲
Effectiveness of government	Progress bar	▲
Innovation capability	Progress bar	▼