EGEEC 65 and EGNRET 63 Join Meeting Host Economy Presentation

19 November, 2025 | Korea Energy Agency





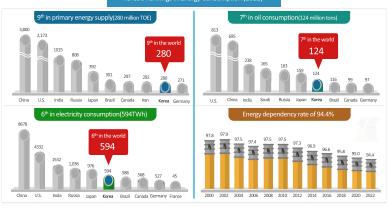
Contents

- 1. Energy Consumption Status in Korea
- 2. Changes in Korea's Renewable Energy Policy
- 3. Global Trends in Energy





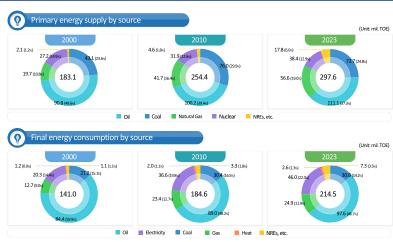
(orea's Rankings in Energy Consumption (2022)







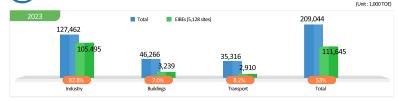




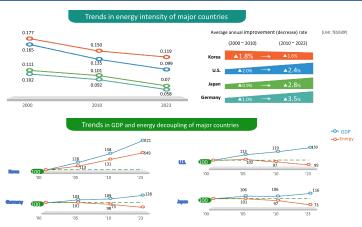








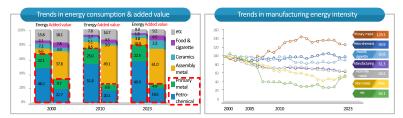








Increased consumption by energy-intensive industries

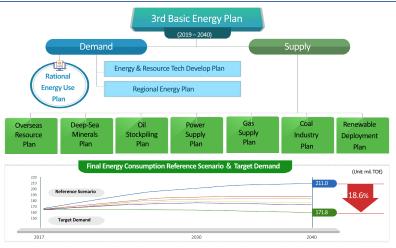














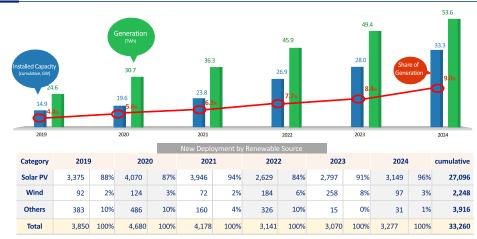


① Strengthen facility mgmt through energy-use plan system
② Enhance demand mgmt in public institutions











Renewable energy Share of Electricity Production (2023)

	Korea	USA	China	EU
Total renewable	7.8%	21.6%	30.1%	30.1%
Solar PV	63.1%	22.3%	20.5%	20.3%
Wind	7.2%	44.3%	31.2%	39.3%
Hydro	7.8%	25.6%	43.3%	27.1%
Bio	21.0%	5.4%	4.9%	12.4%
Others	0.9%	2.0%	0%	0.5%

^{*} IRENASTAT Online Data Query Tool



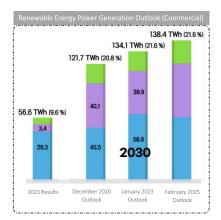
		First (Feb. 2001)	Second (Dec. 2003)	Third (Dec. 2008)	Fourth (Sep. 2014)	Fifth (Dec. 2020)
Policy Period		2001~2003	2003~2012	2009~2030	2014~2030	2020~2034
Goal	Primary Energy Share	2% by 2003	5% by 2011	11% by 2011	14.3% by 2030	13.7% by 2034
	Electricity Share	-	7% by 2011	7.7% by 2030	21.6% by 2030	25.8% by 2034
	Key Polices	Introduction of Renewable Energy Feed-in Tariff (FIT) (2002) Mandatory Installation for Public Institutions (2004)	Expansion of Government Solar Deployment (100,000 homes)	Renewable Portfolio Standard (RPS) Announced (2012)	Korea's FIT Introduction Announced (2017)	Establishment of Fixed-Price Long-Term Auctions Strengthening the Framework for Renewable Energy Use (RE100)
Sigi	nificance of the Policies	Fist Plan with Proposals for New Schemes, including FIT	Mid-term Plan Proposing New Deployment and Infrastructure Programs	Linking Detailed Scenarios to the Master Plan Proposal for Strengthening Market Functions	Public-Private Partnership-Based Market Development Incorporation of Energy Transition Vision	Acceleration of Transition to a Low-Carbon Economy and Society



Adjustment

Holistic Consideration of Potential, Grid, and Policy Factors → Upward Revision of Solar and Wind Deployment Outlook





Market system transition for new era

Support overseas market entry



Goal	Long-term, structured RE expansion for carbon neutrality & energy security					
Direction	Gov't-led deployment, stronger industry competitiveness, improved market system					
1	Build robust offshore wind ecosystem	 Planned offshore wind rollout led by gov't Strengthen competitiveness across supply chain Ensure stable operation of offshore wind farms 				
2	Orderly solar PV expansion	Strategic deployment by site type (industrial, farmland, etc.) Grid-aware, orderly new capacity entry				

Support for stable supply chains & technology
 RPS reform for structured, gov't-led deployment

One-stop support (tentative RE Overseas Council)

G2G cooperation: top-down development & phased support

Promote PPAs & voluntary RE market



Objectives	Inclusive Politics Global Innovation Economy Inclusive, Balanced Growth Strongly Based Society National Interest-Based Security Politics	olicy							
Strategies	Advancing AI Leadership, 2. Robust Science and Technology Foundation, 3. Innovating for an Industrial Renaissance, A. Accelerating Sustainable Energy Transition for Climate Action, 5. Innovating Financial Mechanisms								
	38. Establishing Energy Infrastructure as the Backbone of Economic Growth								
	39. Energy Transition Centered on Renewables								
National Tasks	40. Achieving Carbon Neutrality for a Sustainable Future								



Objectives

Boosting Renewable Industry Competitiveness via Expansion and Reform

Establishing Balanced Regional Growth through Solar · Wind Expansion, and RE100 Industrial Zones

Expanding Renewable Energy

Improving Renewable Energy Policies

- 1. Updating and Executing 2030 Renewables Target Roadmap (78GW)
- Fast-tracking Wind Farm Deployment via Site Discovery and Permitting
- Diversifying Solar Sites across Industrial Agrivoltaic Public Land, Municipal Properties
- Diversifying Renewables with Tidal and Ocean Thermal; Coal Phase-Out by 2040

- 1. Gradually Transitioning Renewable Deployment into Contract Markets
- 2. Streamlining Permitting Processes
- Government-Led Site Planning with Streamlined Permitting and Assessment Reforms
- 3. Pursuing Regulatory Reforms Including Setback Relaxation · Elimination

Enhancing Industrial Competitiveness

Regional Co-Benefits

RE100 Industrial Complex

- 1. Accelerating Next-Gen Solar Commercialization
- 2. Developing Offshore Wind Turbine **Components and Technologies**
- 3. Built Installation Vessels and Dedicated Ports
- 1. Boosting Local Income via Solar · Wind Dividends and Energy Independence
- Enhancing Public Acceptance by Fostering One-Stop Renewable Service Companies
- 1. Creating Localized RE100 Zones in Renewable-Rich Areas
- Introducing Special Act with Innovative Incentives
- Promoting Distributed Models and Renewable Pricing to Attract Businesses
- Enhancing Livability and Infrastructure to Attract Investment and Talent

Expected Outcomes

- Strengthening Energy Security and Exporting Renewables through Energy Transition
- Developing RE100 Complexes as Regional Growth Hubs and Enhancing Competitiveness of High-Tech Firms









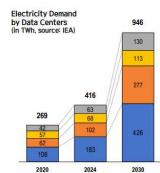
B∩thers

Europe

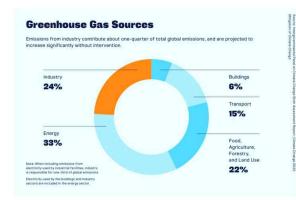
China

■United States























Thank you

