

Announcement by the UN SDGs Association, Sustainable Development Goals Business Index (SDGBI)

- Ranked as the top domestic group in 2023

Conducted by the National Research Council for Economics Humanities and Sciences, Research Institution Evaluation

- Received Grade A in comprehensive evaluations for 2020 and 2021
- Selected as an Innovation Institution in 2023

Assessment by the Ministry of Gender Equality and Family, Exemplary Family-Friendly Institution

- Accredited for Family-Friendly Practices (Since 2017)

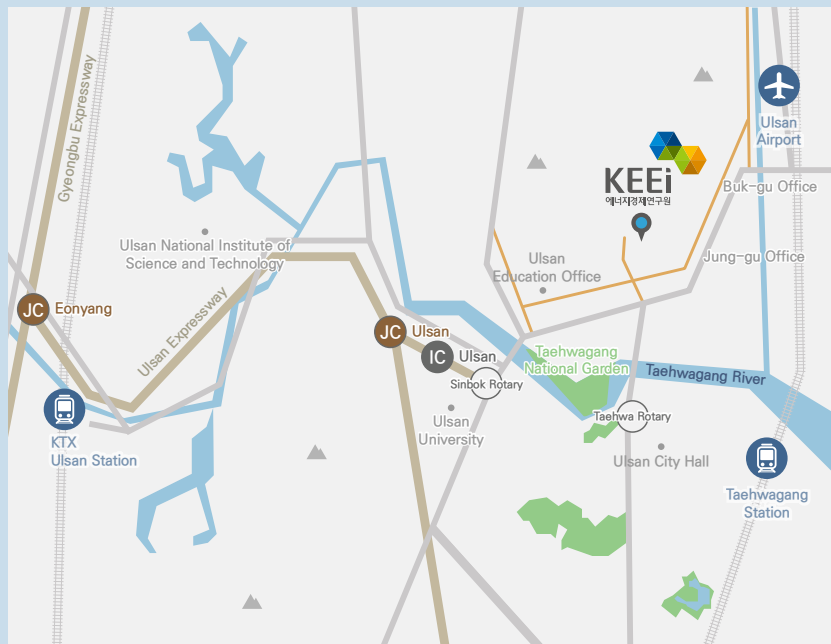
Ranked by the University of Pennsylvania, USA, Global Think Tank Rankings, World Energy and Resources Policy Sector

- Ranked 10th in 2015, 6th in 2016, 4th from 2017 to 2019, 3rd in 2020

KEEi

Korea Energy Economics Institute

LOCATION



Korea Energy Economics Institute(KEEI)
Address: 405-11 Jongga-ro, Jung-gu, Ulsan, 44543, Republic of Korea
Phone: +82-52-714-2114





President Message

Welcome to KEEI.

As S.Korea's only national research institute in the field of energy policy, KEEI has led energy policy research and played a key role in establishing the government's major energy policies.

Recently, the internal and external environment surrounding energy has been rapidly changing, posing a very challenging task in establishing domestic energy policy. We must overcome the challenge of simultaneously pursuing carbon neutrality to respond to the climate crisis while responding to energy security threats caused by the expansion of global energy supply and demand instability and the reorganization of the energy supply chain.

In this difficult internal and external environment, KEEI will do its job as an energy policy think tank to proactively respond to the rapidly changing energy policy environment and meet the demands of the times for carbon neutrality.

Based on the experience and expertise KEEI has accumulated, we aim to contribute to the development of the national economy by focusing our research capabilities on presenting reasonable and feasible energy policy alternatives.

We sincerely appreciate your continued support and interest.

Thank you.

14th President of KEEI Kim, Hyun Jae



HISTORY



2023. 6
Inauguration of Dr. Hyun-Jae Kim as the 14th President

2023. 1
Establishment of the 10th Basic Plan for Electricity Supply and Demand

2021. 12

Establishment of the Energy Carbon Neutrality Innovation Strategy

2021. 10
Development of the 2050 Carbon Neutrality Scenario Plan

2020. 12

Establishment of the 5th Basic Plan for Development, Utilization, and Expansion of New and Renewable Energy Technologies

2020. 8

Establishment of the 6th Basic Plan for Rationalization of Energy Utilization

2019. 4

Establishment of the 3rd National Basic Plan for Energy

2017. 12
Establishment of the 8th Basic Plan for Electricity Supply and Demand

2015. 7
Establishment of the 7th Basic Plan for Electricity Supply and Demand

2014. 12
Relocation of the office building in Ulsan

2014. 1
Establishment of the 2nd National Basic Plan for Energy



2013. 2
Establishment of the 6th Basic Plan for Electricity Supply and Demand

2008. 8
Establishment of the First National Basic Plan for Energy

2010. 12
Establishment of the National Green Growth Strategy for the Energy Sector

2003. 2
Establishment of the National Basic Plan for new and Renewable Energy

2001. 12

Establishment of Northeast Asia Energy Cooperation Strategy

1999. 1
Abolition of the 'Korea Energy Economics Institute Act' and re-launch as a research institute under the 'Act on the Establishment, Operation and Development of Government-funded Organization' (Law No. 5733)

1998. 2
Publishing Korea's Report on the U.N. Framework Convention on Climate Change

1993. 11
Establishment of the Korea Energy Use Rationalization Plan

1991. 1

Relocation of the office building in Uiwang-si, Gyeonggi-do Province



1986. 9
Establishment of the Korea Energy Economics Institute(KEEI)



1986. 8
Inauguration of Dr. Hoe-Sung Lee as the first President

1986. 8
Promulgation of the Enforcement Decree of Korea Energy Economics Institute Act (Presidential Decree No. 11952)

1986. 5
Promulgation of the Korea Energy Economics Institute Act (Law No. 3838)



PURPOSE OF ESTABLISHMENT

KEEI was established to contribute to the establishment of national energy policy and improve the quality of life of the citizens by investigating and analyzing domestic and international environmental changes in the energy market and industry and conducting comprehensive energy policy research.



MAIN FUNCTION

- Establishment of development plans for the energy industry in response to future environmental changes
- Research on establishing an eco-friendly and low-carbon energy system and responding to climate change in the energy sector
- Prepare market and system improvement plans for stable supply and rational use of energy
- Research, preparation and management of national energy statistics and analysis and forecast of energy supply and demand
- International cooperation to strengthen energy security and industrial competitiveness, etc.
- Research and analysis of various trends and information regarding domestic and international energy markets and industries
- Matters related to research or business-related research, education/training, dissemination of research results, joint research, consignment, etc.
- Additional projects or other projects necessary to achieve our goals





VISION

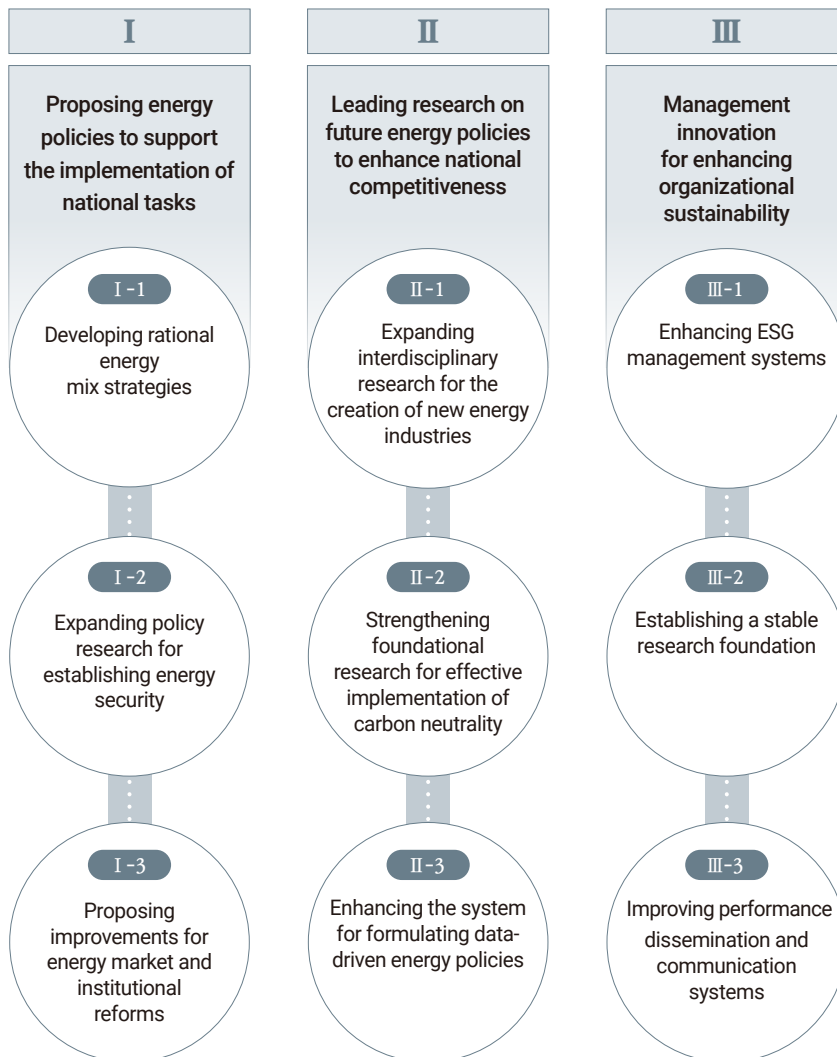
< Management Vision >

Leading energy policy research contributing to sustainable growth and enhancing national competitiveness

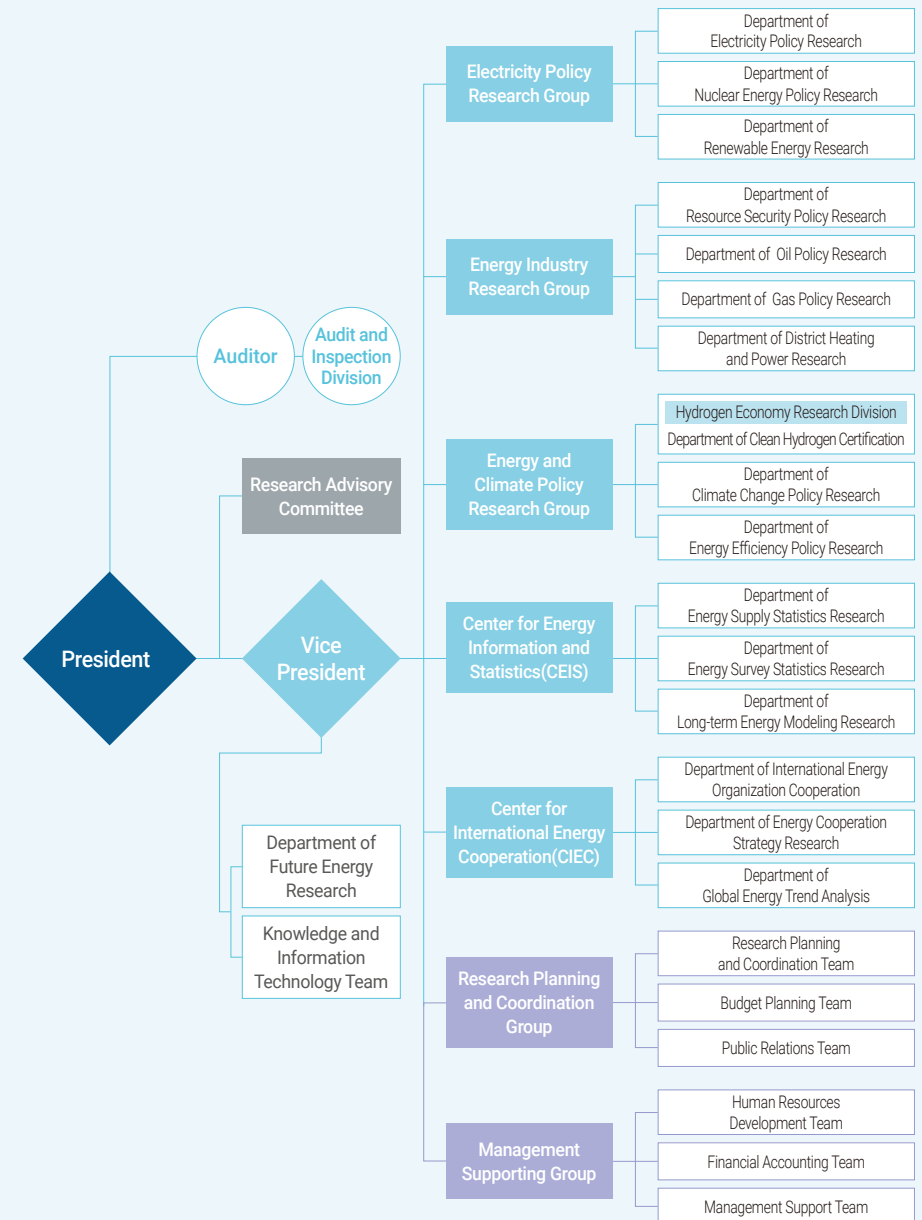
< Mission >

Contributing to the formulation of national energy policies and enhancing the quality of life of citizens

< Management Goals and Implementation Strategies >



ORGANIZATION CHART



Manpower

Number of Employees

166 PERSON

Doctoral degree holder

72 PERSON

Budget

*as of September 2024

30,975 ONE MILLION WON





DEPARTMENT



Vice Presidential Secretariat

Department of Future Energy Research



We develop the national mid- to long-term energy policy agenda and conduct research on designing future energy systems and convergent energy policy initiatives.

- Research on developing the national mid- to long-term energy policy agenda
- Research on designing the national future energy system
- Research on convergent energy policy initiatives
- Research on AI applications and innovation in the energy sector

Based on information security, we establish and operate IT infrastructure and information systems, while collecting and managing energy and resource-related content to promote knowledge informatization.

- Support for the dissemination of energy and resource knowledge and information
- Operation and management of IT infrastructure
- Development, operation, and management of information systems
- Information and communication security management
- Personal information protection tasks
- Management of books and information resources
- Collection and management of energy and resource-related content
- Knowledge informatization of research data for researchers

Knowledge and Information Technology Team



Audit and Inspection Division

Audit and Inspection Division



We conduct routine audits within the institute and respond to special audits from higher authorities.

- Audit of tasks related to accounting and property management
- Audit of general administrative tasks
- Response to special audits from higher authorities
- Review of the appropriateness of employees' external activities
- Matters related to routine audits

Electricity Policy Research Group

Department of Electricity Policy Research



We analyze the economic and policy aspects of the power industry and propose measures for power industry regulation, pricing policies, and supply stabilization.

- Research on energy mix in the power generation sector
- Analysis of economic and policy aspects of the power industry
- Analysis of power industry regulations and pricing policies
- Restructuring of the power industry and long-term development plans
- Analysis of the power market and measures for supply stabilization
- Establishment and operation of databases related to power supply analysis
- International cooperation activities related to power policy research

We analyze the economic viability and societal impact of nuclear power plants provide in-depth analyses domestic and international nuclear policies and major industry issues.

- Economic analysis of nuclear power plants
- Research on the socioeconomic effects of nuclear power and long-term nuclear policy
- Analysis of domestic and international nuclear industry trends and policies
- Analysis of current issues and policy alternatives related to nuclear power
- Management of nuclear energy policy research networks
- Establishment and maintenance of databases related to nuclear power
- Research on social acceptance of nuclear power
- Research to enhance nuclear safety
- International cooperation activities related to nuclear policy research

Department of Nuclear Energy Policy Research



Department of Renewable Energy Research



We conduct policy research related to renewable energy to achieve carbon neutrality and provide policy alternatives for supporting the development and dissemination of renewable energy technologies.

- Policies related to renewable energy for achieving carbon neutrality
- Policies supporting the development and dissemination of renewable energy technologies
- Legislation and regulations related to renewable energy
- Evaluation of the societal and economic impact of renewable energy
- Research on governance related to renewable energy policies
- Establishment, operation, and evaluation of regional renewable energy policies
- Establishment and operation of databases related to renewable and regional energy
- International cooperation activities related to renewable energy policy research

Energy Industry Research Group

Department of Resource Security Policy Research



We analyze the economics and policies related to energy and resource security, and conduct research on short- and long-term resource security strategies, market analysis, legal frameworks, support policies, and socio-economic impacts.

- Analysis of domestic and international energy/resource security trends and strategies, and development of national policies
- Research and analysis of the supply chain structure and market for critical resources
- Diagnosis and evaluation of national energy/resource security
- International cooperation activities related to energy/resource security

We analyze economic and policy aspects related to petroleum, conduct research on long-term development strategies, market analysis, and measures for supply stabilization.

- Analysis of domestic and international petroleum markets and petroleum industry policies
- Research on petroleum supply forecasts and oil price forecasts
- Study on national strategies for petroleum supply stability and response to petroleum crises
- Economic and policy analysis of national resource development
- Investigation, analysis, and evaluation of trends in overseas resource development

Department of Oil Policy Research



Department of Gas Policy Research



We analyze economic and policy aspects related to gas, conduct research on long-term development strategies, market analysis, and measures for supply stabilization.

- Analysis of domestic and international gas industry-related economic and policy aspects
- Analysis of gas industry regulations and pricing policies
- Restructuring of the gas industry and long-term development strategies
- Market analysis of gas and measures for supply stabilization
- Efficient establishment and utilization of gas industry infrastructure

We conduct research tasks related to integrated energy policies that respond to domestic and international energy and environmental changes and new energy policy demands.

- Economic analysis of group energy industries and related policy research
- Legislation and regulations related to group energy
- Promotion of distributed energy such as cogeneration
- Policies related to group energy for achieving carbon neutrality
- Research on activating the distribution of group energy

Department of District Heating and Power Research



Energy and Climate Policy Research Group

Hydrogen Economy Research Division



We analyze domestic and international policies related to the transition to a hydrogen economy and conduct research on legal frameworks, support policies, and the socio-economic impacts.

- Analysis of hydrogen and new energy policies to promote energy transition
- Legal frameworks and systems related to hydrogen and new energy
- Evaluation of the socio-economic impacts of expanding hydrogen and new energy supply
- Analysis of the ripple effects on energy industries such as electricity and gas due to hydrogen and new energy expansion
- Analysis of global trends in the hydrogen and new energy industries and strategies for the domestic introduction of overseas hydrogen

Designated as the operating organization for the clean hydrogen certification system under the Hydrogen Act, we are tasked with overseeing the entire system, including the development of certification standards, providing preliminary review consulting, and operating the certification platform.

- Operation and management of the clean hydrogen certification system
- Development and improvement of lifecycle assessment methodologies for clean hydrogen certification
- Analysis of global trends in clean hydrogen certification systems
- Policy analysis and development related to clean hydrogen certification
- International cooperation activities related to clean hydrogen certification, including international standards and mutual recognition

Department of Clean Hydrogen Certification



Department of Climate Change Policy Research



We conduct economic analysis and policy research on climate change adaptation, supporting the government's energy and environmental policy formulation by developing greenhouse gas reduction potentials and related policies.

- Economic analysis and policy development for climate change adaptation
- Analysis of greenhouse gas reduction potentials and development of related policies
- Analysis and policy development of climate change negotiation strategies
- Analysis and policy development of international cooperation strategies for climate change
- Preparation of the greenhouse gas inventory and National Reports for the Climate Change Convention

We establish the Basic Plan for the Rationalization of Energy Use and analyze the potential for energy savings and the impact of related policies.

- Research and policy development for energy use rationalization
- Analysis of energy savings potential and the impact of related policies
- Effectiveness analysis of various energy demand management strategies
- Support for the development, implementation, and evaluation of local government energy policies
- International cooperation activities related to energy demand management, energy efficiency, and long-term demand forecasting

Department of Energy Efficiency Policy Research



Center for Energy Information and Statistics(CEIS)

Department of Energy Supply Statistics Research



We compile and publish national energy supply and demand statistics, analyze energy supply trends, and provide short- to mid-term demand forecasts. Additionally, we establish and operate the National Energy Statistics Comprehensive Information System (KESIS).

- Collect and manage energy supply and demand statistics and compile and publish national and regional energy supply and demand statistics
- Publish monthly and annual energy statistical reports
- Compile and provide national energy statistics in compliance with IEA standards
- Establish and operate the National Energy Statistics Comprehensive Information System (KESIS)
- Analyze domestic energy supply and demand conditions, trends, and the impact of policy and market changes on supply and demand
- Analyze overseas energy supply and demand trends
- Develop and operate models for short- and mid-term energy demand forecasts and provide national energy demand analysis and projections

We collect and manage national energy survey statistics, conduct statistical surveys, and compile and publish statistics. We also conduct research on the analysis and improvement of national energy survey statistics.

- Collection and management of national energy survey statistics
- Implementation of energy total (simple) surveys and compilation and publication of statistics
- Implementation of household energy panel surveys and compilation and publication of statistics
- Compilation and provision of energy efficiency statistics based on IEA standards
- Analysis and research on the improvement of national energy survey statistics
- Compilation and utilization of energy big data-related integrated statistics and research on utilization methods
- Development of new survey statistics
- International cooperation activities related to national energy survey statistics

Department of Energy Survey Statistics Research



Department of Long-term Energy Modeling Research



We provide information for policy development by designing long-term scenarios, developing analysis models, and conducting analyses that consider energy and climate change policies as well as technological changes.

- Long-term energy supply and demand analysis and forecasting
- Analysis of the supply and demand impacts of policy and environmental changes
- Development and operation of long-term energy demand forecasting models
- Development and operation of models for analyzing the impacts of energy policy
- International cooperation activities related to long-term demand forecasting

Center for International Energy Cooperation(CIEC)

Department of International Energy Organization Cooperation



We support the implementation of the government's obligations to major multilateral international organizations in the energy sector and develop and conduct cooperation activities and joint research with multilateral international organizations.

- Supporting the government's obligations to major multilateral international organizations (such as IEA, APEC, ASEAN+3, CEM, G20, UN, ADB) in the energy sector
- Co-organizing and participating in policy and academic cooperation activities (forums, seminars, workshops, etc.) hosted by multilateral international organizations
- Developing and conducting joint research on energy and carbon neutrality with multilateral international organizations
- Establishing research cooperation networks with multilateral international organizations and developing and operating cooperation projects
- Establishing and operating a domestic expert network for the development and implementation of multilateral energy cooperation strategies

We develop strategies and plans for bilateral energy cooperation, conduct cooperation projects and joint research, and develop and implement strategies for energy cooperation activities between North and South Korea.

- Establishment of bilateral energy cooperation strategies and plans for countries in the New Northern(Northeast Asia, Eurasia), New Southern(Southeast Asia, Asia), Middle East, North America, Africa, Central and South America, Europe regions, and development and operation of cooperative projects
- Development and performance of bilateral and international joint research conducted by the country and researchers
- Performed "Northeast Asia Energy Intergovernmental Council Operation and Support Project"
- Conducted "Support Project to Strengthen Energy Resources Cooperation to Expand Expansion into Emerging Markets"
- Developing strategies and conducting related research for energy cooperation between North and South Korea

Department of Energy Cooperation Strategy Research



Department of Global Energy Trend Analysis



We analyze overseas energy policies and market trends, investigate and analyze current issues by region and country, including major countries' energy prices and regulatory policies.

- Analysis of overseas energy policies, market trends, and supply chain dynamics
- Research and analysis of current issues by region and country
- Establishment of a network of experts for trend analysis
- Investigation and analysis of energy prices and regulatory policies in major countries
- Establishment and operation of a database for analyzing overseas energy policies and market trends
- Provision of analysis services on overseas energy policies and market trends to government and energy-related agencies

Research Planning and Coordination Group

Research Planning and Coordination Team



We establish mid- to long-term development plans and management objectives, and perform tasks related to the management, support, and evaluation of research projects and related activities.

- Establishment of mid- to long-term development plans and management objectives for the organization
- Formulation, monitoring, and support of action plans for achieving management objectives
- Setting research project goals and plans
- Selection and allocation of research projects
- Management and evaluation of research projects
- Tasks related to committees such as the Research Coordination Committee and Evaluation Committee
- Tasks related to performance evaluation of research staff, permanent employees, and commissioned researchers
- Tasks related to organizational evaluations

We establish and manage short- to mid-term financial plans, oversee budget requests, allocations, and management of government contributions, and handle tasks related to the National Assembly.

- Establishment and management of short- to mid-term financial plans
- Budget planning, requests, modifications, and settlements for government contributions through the Office for Government Policy Coordination
- Budget planning, requests, modifications, and settlements for contributions and subsidies through the Ministry of Trade, Industry and Energy
- Budget allocation and management for R&D reserve fund projects
- Budget management tasks, including monitoring and reporting on execution performance
- Operation and improvement of performance evaluation systems for non-research staff
- Coordination of government-related tasks such as National Assembly audits, interactions with government ministries, and other government-related affairs
- Establishment of budget execution standards and improvement of related systems

Budget Planning Team



Public Relations Team



We oversee the dissemination of energy and resource knowledge and information and carry out tasks related to the development and management of domestic and international promotional and educational programs.

- Domestic and international promotional tasks for the organization
- Overall management of energy and resource knowledge dissemination
- Production and management of promotional materials for the organization
- Development and operation of educational programs in the energy sector
- Educational cooperation projects in the energy sector
- Support for the president's external activities
- Support for domestic and international research seminars
- Distribution and management of publications on research outcomes

Management Supporting Group

Human Resources Development Team



We establish and manage workforce supply plans and perform tasks related to personnel management, payroll, attendance, welfare, education and training, and security (for personnel and personal information).

- Establishment and management of mid- to long-term and annual workforce supply plans and recruitment plans
- Personnel tasks related to promotions, leaves of absence, and committee operations
- Payroll management, retirement pensions, and tasks related to improving compensation
- Management of work-related tasks such as flexible working hours and business trips
- Management of welfare programs such as flexible benefits, health check-ups, and group insurance
- Management of education and training programs, including autonomous research, domestic and international study leave, and mandatory training
- Security tasks related to personnel security and personal information protection
- Management of the in-house cafeteria operations

We execute budgets, manage funds, oversee settlement and accounting, and handle contracts and settlements for commissioned research projects.

- Tasks related to the contracting and settlement of commissioned and entrusted research projects
- Management of revenue collection, including government contributions and service fees
- Management of retirement pensions and fund operations
- Tasks related to national and local taxation
- Management of expenditure, accounting, and settlement processes
- Issuance and management of corporate credit cards

Financial Accounting Team



Management Support Team



We provide support for organizational operations related to regulations, labor, documentation, facilities, assets, contracts, security, and events.

- Tasks related to the establishment and revision of regulations and guidelines
- Labor-management cooperation tasks, including collective bargaining agreements and the operation of labor-management councils
- Contract management tasks, including project bidding, publication printing, and the supply of goods and office supplies
- Maintenance, repair, and improvement of office facilities, as well as the establishment and implementation of safety management responsibility plans
- Operation and management of shared facilities and assets, as well as general security tasks (documents and facilities)
- Promotion of ethical management, ESG management, and the establishment and execution of regional development plans
- Tasks related to employee communication and organizational events



PUBLICATION



Research Report

Basic research and policy research reports in the energy and economic fields

- Basic Research Report
- Regular Research Report
- Self-Research Report
- General Research Report

Periodical

Research and analysis publications on domestic and international energy trends and current issues

- International Oil Prices and Market Trends
- Integrated Energy Trends
- World Energy Market Insights
- World Nuclear Power Market Insights
- Energy Focus
- International Crude Oil Market and Oil Price Outlook

Statistical Publications

Publications providing domestic and international energy information and statistics

- Monthly Energy Statistics
- Yearbook of Energy Statistics
- Yearbook of Regional Energy Statistics
- Frequently Visited Energy Statistics
- Energy Info. Korea
- Energy Survey
- Household Energy Panel Survey
- Supply and Demand Trends/Brief
- Energy Demand Outlook
- Energy Infographics
- Policy Research Materials

Academic Journal

Academic and policy research papers in the fields of energy, resources, and environmental economics

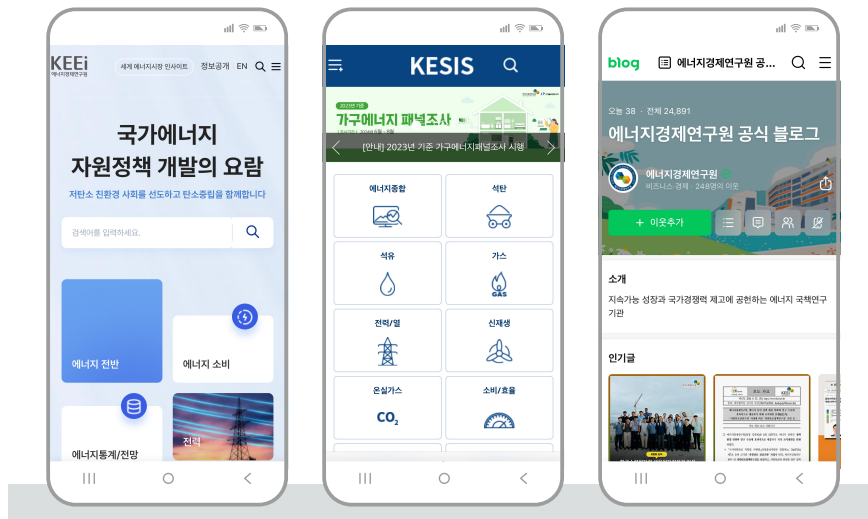
- Energy Economics Research
(Co-published with the Korean Resource Economics Association)

Energy Statistics Service

As a national energy statistics preparation agency, KEEI prepares and distributes annual and monthly energy supply and demand statistics, regional energy supply and demand statistics, energy surveys, and household energy panel survey statistics, etc.

Statistics prepared in accordance with the "Regulations on the Preparation of Energy Statistics (Ministry of Trade, Industry and Energy Notice No. 2020-40)" are provided through the National Energy Statistics Comprehensive Information System (KESIS, <http://www.kesis.net>)

ONLINE



KEEI Website

<https://www.keei.re.kr>



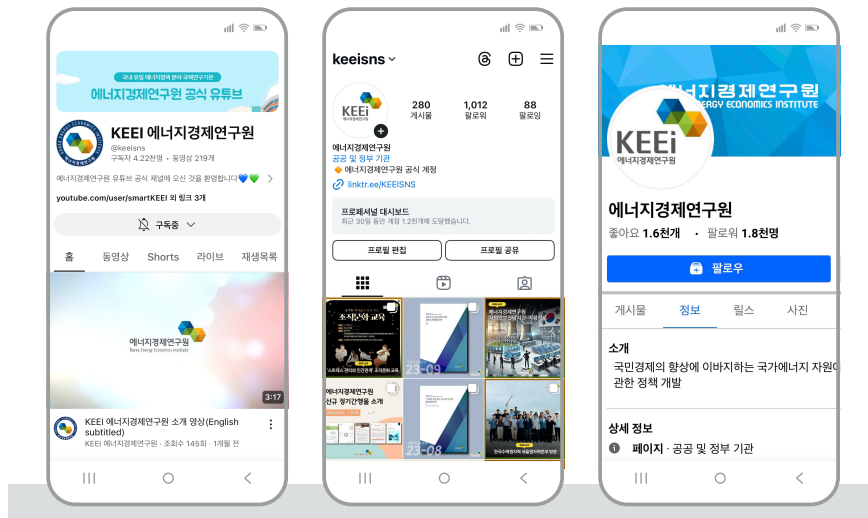
Korea Energy Statistical Information System

<https://www.kesis.net/>



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Instagram

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Facebook

@keeisns



EDUCATION

Provides expert knowledge in the energy field to executives, senior managers (Energy Management Program), and middle managers (Next Generation Energy Leader) of leading organizations and companies in the energy field and provides a venue for information exchange

Energy Management Program



Purpose

- To Provide in-depth expertise on major energy issues domestically and internationally to executives and senior managers of leading energy-related organizations and companies in South Korea
- KEEI has opened the 'Energy Management Program' since 2002, producing a total of 800 graduates in 23 classes by 2024.



Education Status

- Education Period: Every Friday in the first half of the year (13 weeks, including domestic and overseas training)
- Eligibility: Senior managers from government agencies, public institutions, companies, organizations, associations, and others engaged in the energy sector, or individuals with equivalent qualifications



Operation Status

- Lecturers: Director of the Institute, representatives from energy-related organizations and public corporations, experts from academia and cultural and arts fields
- Education Content:
 - Practical approaches to achieving carbon neutrality, domestic and international policies for various energy sources, market trends, and response strategies
 - Providing courses covering various fields such as economics, management, society, culture, and international affairs
 - Learning about domestic and international energy situations and visiting related facilities

Next Generation Energy Leader Program



Purpose

- To provide in-depth expertise on key energy issues domestically and internationally to mid-level managers from energy-related organizations and companies, aiming to identify and nurture the next generation of energy leaders who will lead the energy industry in South Korea
- KEEI has opened the 'Next Generation Energy Leader Program' since 2009 and will produce a total of 575 graduates in 15 classes by 2023



Education Status

- Education Period: Every Friday in the second half of the year (13 weeks, including domestic and overseas training)
- Eligibility: Mid-level managers from government agencies, public institutions, companies, organizations, associations, or individuals with equivalent qualifications working in the energy sector



Operation Status

- Lecturers: Researchers at the level of department heads or higher from KEEI, as well as experts from academia, culture, and the arts
- Education Content:
 - Practical approaches to achieving carbon neutrality, domestic and international policies for various energy sources, market trends, and response strategies
 - Providing courses covering various fields such as economics, management, society, culture, and international affairs
 - Learning about domestic and international energy situations and visiting related facilities

Education Application: Assistant Manager Park Hyunbin, Public Relations Team(+82-52-714-2258, hbpark@keei.re.kr)