

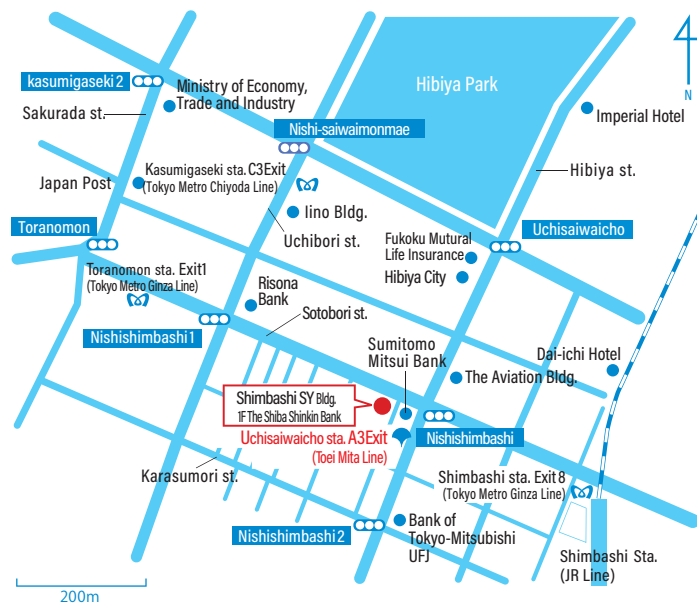


# The Institute of Applied Energy

Shimbashi SY Building, 1-14-2, Nishi-Shimbashi 1-Chome,  
Minato-Ku, Tokyo, 105-0003, Japan

URL : <https://www.iae.or.jp>

Contact us : <https://www.iae.or.jp/e/inquiry/>



### ● Access to Shimbashi SY Building

JR Shimbashi Station Hibiya Exit / Tokyo Metro Ginza Line	5 minutes'walk from Shimbashi Station
Toei Mita Line	1 minute walk from Uchisaiwaicho Station (Exit A3)
Tokyo Metro Ginza Line	5 minutes'walk from Toranomom Station (Exit 1)

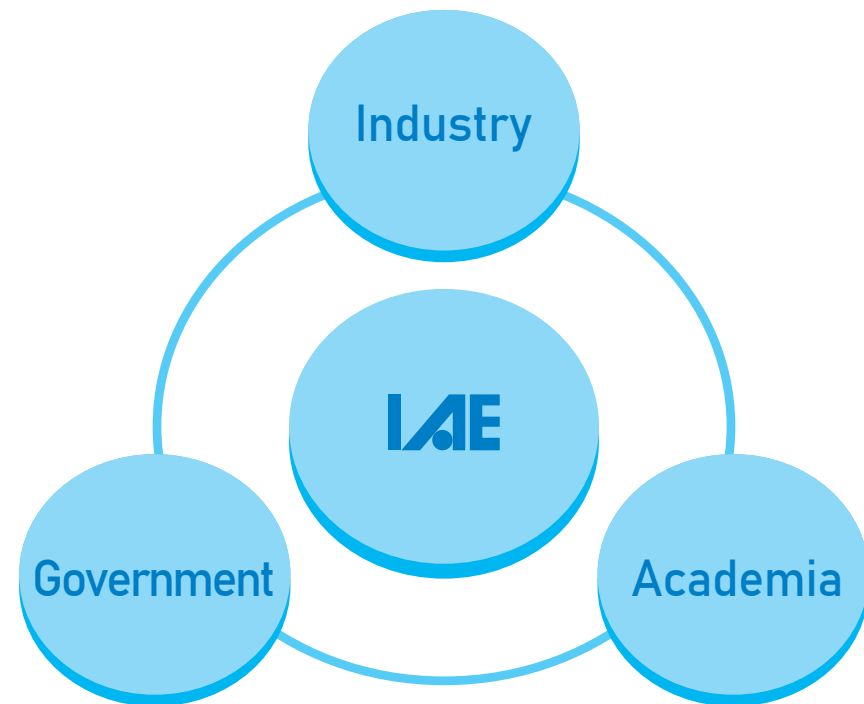
# Technology Expands the Horizons of Future Energy

## About Us

Founded in 1978 in central Tokyo, the Institute of Applied Energy (IAE) is an independent, nonprofit organization engaged in technology-oriented research across a wide range of energy fields, guided by the philosophy: "Technology Expands the Horizons of Future Energy."

IAE contributes to the resolution of challenges related to energy development, supply, and utilization through comprehensive research from a technological perspective. Leveraging its extensive network spanning industry, academia, and government, IAE conducts research studies and organizes collaborative projects.

IAE's activities are supported by contributions from Supporting Member companies, as well as commissioned research projects from government agencies, private companies, and other organizations.



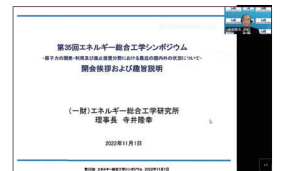
## Research in a wide range of energy fields

- Global Environment**  
IAE conducts long-term, integrated assessments of global and national energy and environmental systems using its global GRAPE model and Japan's TIMES-Japan model for CO<sub>2</sub> mitigation scenarios. The institute also researches key innovative technologies for climate change mitigation, evaluates their potential to reduce greenhouse gas emissions, and explores energy management strategies for realizing a low-carbon society.
- Renewables, Thermal Energy and Electric Power System**  
IAE conducts research on a wide range of power system challenges arising from the large-scale deployment of renewable energy sources such as photovoltaic and wind power. Our work also covers power generation technologies using biomass and waste, solar thermal power, and advanced power generation systems that incorporate thermal energy storage. In addition, IAE contributes technical proposals for Japan's electricity system reform through discussions among experts and stakeholders in the Advanced Power Network Study Group and the Solar Thermal Energy and Energy Storage Society.
- Circular Carbon**  
To promote the advanced use of fossil fuels in pursuit of a low-carbon society, IAE conducts studies and evaluations of clean coal technologies (CCT), including Integrated Coal Gasification Combined Cycle (IGCC) systems. Our research also covers carbon capture and utilization (CCU) technologies that support a circular carbon approach, as well as CO<sub>2</sub>-to-fuel conversion technologies powered by renewable energy. In addition, IAE convenes the Society of Anthropogenic Carbon Cycle Technology, providing a forum for diverse stakeholders to exchange views on circular carbon technologies.
- Hydrogen**  
IAE has been actively engaged in research and development on hydrogen as an energy carrier for more than 30 years. Today, our work includes studies on CO<sub>2</sub>-free energy system deployment scenarios, hydrogen supply chains, and forecasting future hydrogen demand. IAE also gathers and disseminates hydrogen-related information through its national and international network of hydrogen organizations.
- Nuclear Energy**  
IAE conducts research on the role of nuclear energy systems, domestic and international safety regulation frameworks, global R&D trends in innovative nuclear power technologies, and technical issues related to the decommissioning of nuclear power plants. IAE also develops elemental technologies to enhance nuclear plant safety and performs safety assessments using its in-house analysis code, SAMPSON.

## Dissemination of Energy Technology Information to the Public

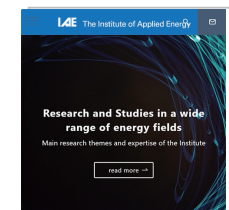
### Symposium and Seminars

- IAE Symposium**  
IAE holds a Symposium annually on major technological topics.
- Monthly Seminars**  
IAE holds Monthly Seminars to provide latest information on energy-related thematic issues.



### Information distribution via the Internet

- IAE Website**  
The website provides information on IAE and its activities and achievements.
- Energy Technology Information Platform**  
The dedicated website provides specially curated information exclusively for IAE Supporting Members.



### IAE Reviews and other reports

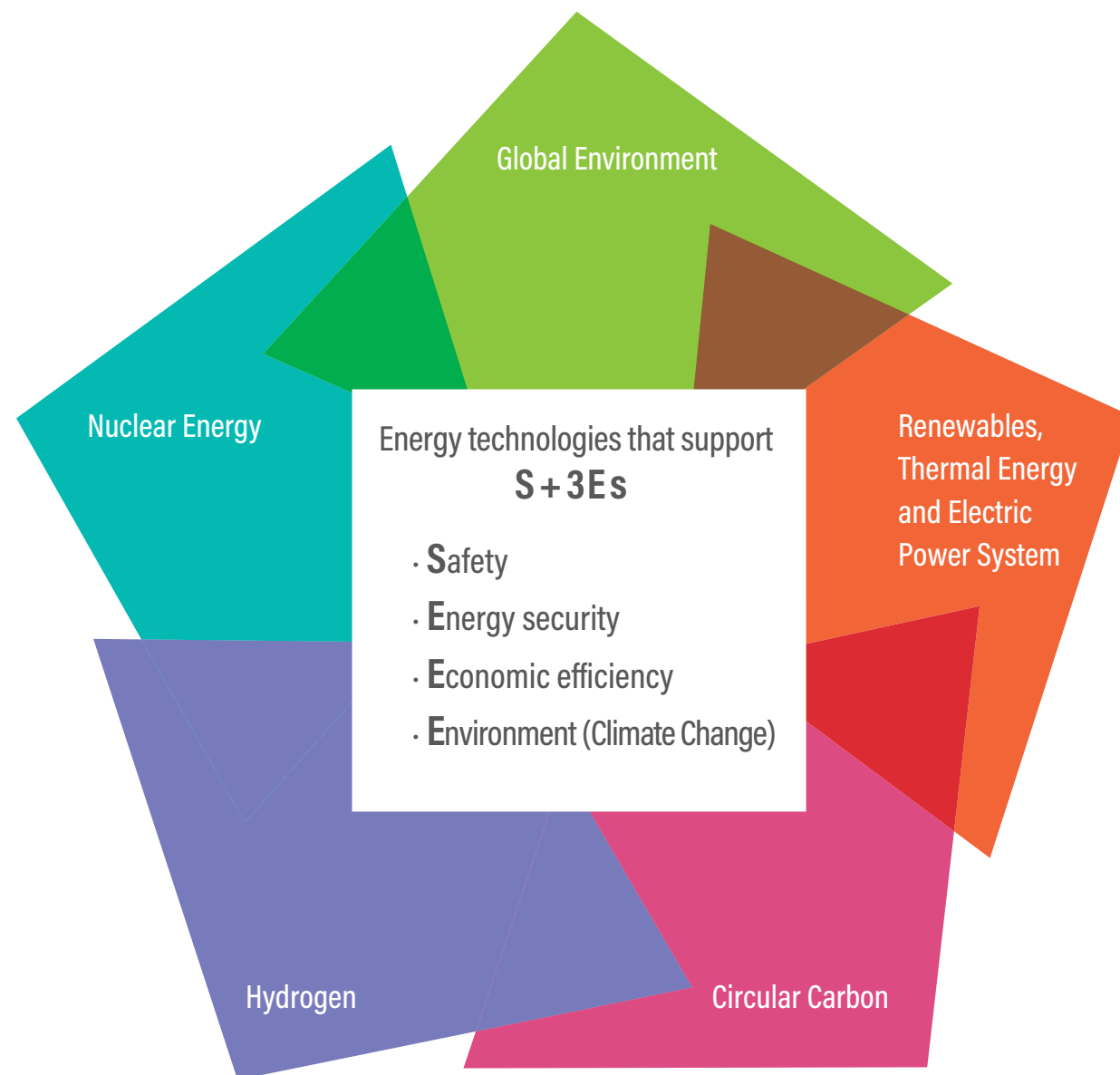
- IAE Reviews**  
The quarterly publication *IAE Reviews* provides comprehensive and up-to-date information on energy technologies, policy developments, and more.
- Research reports**  
Research reports are constantly released for IAE Supporting Members.



## Energy Perspectives

IAE conducts cross-sectoral and comprehensive analyses across a wide range of energy fields, including the global environment, renewables, thermal energy, electric power system, circular carbon, hydrogen, and nuclear power. It also examines the relationship between energy and society in terms of energy supply and demand, environmental impacts, resource availability, and economic factors.

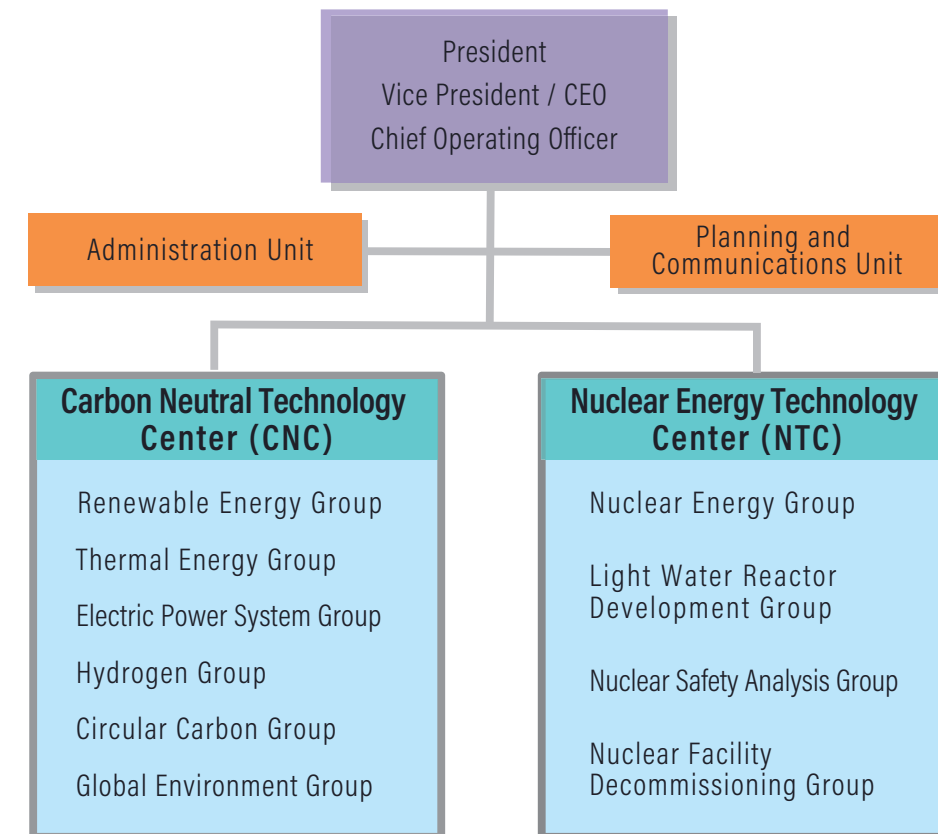
Through these activities, IAE provides forward-looking energy perspectives for Japan and the world, serving as a bridge between academia, industry and government, and contributing to society as a whole.



### Analysis tools

IAE uses analysis tools such as GRAPE (global environment analysis system) and SAMPSON (analysis code for severe accidents) to conduct its assessments and analyses.

## Organizational Chart



### Executive Officers

President	Takayuki Terai
Vice President/CEO	Hiroshi Kuniyoshi
Chief Operating Officer	Hiroimi Tamagawa

### Staff (as of April 2026)

Number of staff:	55
Researchers	40
Ph.D. holders	22

### Researchers by Technical Fields

Electrical / electronic engineering	4
Mechanical engineering	7
Chemical engineering	6
Nuclear engineering	6
Other science / engineering	17

### History

April	1978	IAE was founded.
October	1978	The first IAE Review was published.
July	1981	The first IAE Symposium was held.
April	1983	The first Monthly Seminar was held.
August	2020	Prof. Takayuki Terai assumed the presidency of IAE.
April	2025	Carbon Neutral Technology Center (CNC) and Nuclear Energy Technology Center (NTC) were established.

### Supporting Members 98 companies (as of April 2026)

IAE is supported by "Supporting Member" companies from various industries such as electric & gas utilities, petroleum, electrical machinery, construction, automobiles, heavy industries, iron & steel, trade, and finance.

IAE conducts research across a broad range of technological fields from the perspective of integrated engineering.

