



VIETNAM ACADEMY OF SCIENCE AND TECHNOLOGY

INSTITUTE OF SCIENCE AND TECHNOLOGY

FOR ENERGY AND ENVIRONMENT





DIRECTOR'S MESSAGE

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Greetings, and a very warm welcome to ISTEE.

The Institute of Science and Technology for Energy and Environment (ISTEE) is a public R&D institution formed through the merger between the Institute of Environmental Technology (IET) and the Institute of Energy Science (IES) in January 2024. We are among the largest institutions under the Vietnam Academy of Science and Technology.

Our R&D-focused activities center around environmental, energy, and sustainable technologies. The ISTEE team is highly committed to delivering international standards in academic performance and technology innovations. Leveraging our strengths as a national leading research institute, we invite you to explore excellent research and cutting-edge energy and environmental technologies. Together, we are working towards a cleaner and better world for future generations.

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2024

**Institute of Science and Technology
for Energy and Environment (ISTEE)**

2008

The Institute of Energy
Science has become a
national research institute

2008

Establishing two
environmental technology
centers in Ho Chi Minh City.
Da Nang City

2004

Establishment of Energy
Research Center

2002

**Environmental
Technology Institute (IET)**

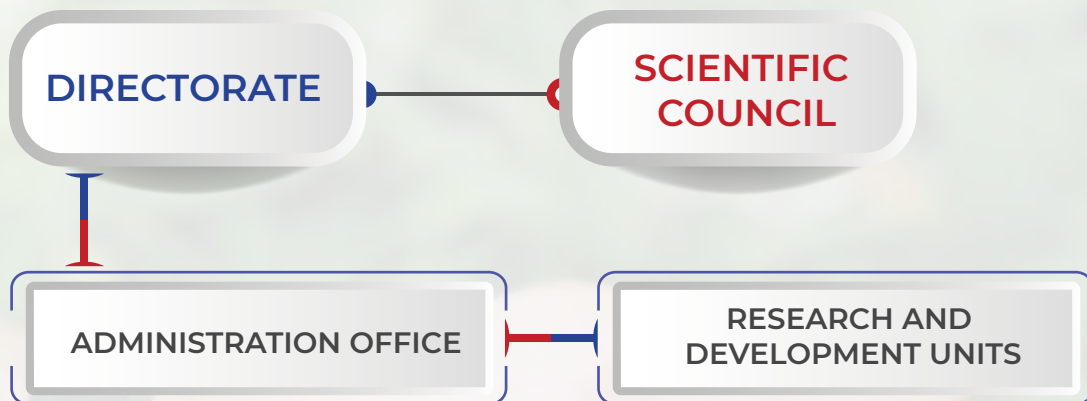
Institute of Environmental
Technology was established

1971

**Institute of
Energy Science (IES)**

The institute was established,
is the predecessor of the
Institute of Energy Science,
under the Science and
Technology Committee.

ORGANIZATION



1. Department of Environmental Quality Analysis
2. Department of Environmental Toxicity Analysis
3. Department of Solid Waste and Air pollution Treatment Technology
4. Department of Water Treatment Technology
5. Department of Environmental Biotechnology
6. Department for Research and Development of Eco-friendly Technology
7. Department of Environmental Enhancement Solutions
8. Center for Research and Development of Membrane Technology
9. Center for Sustainable Energy Development
10. Center for Renewable Energy Technology Development
11. Center for Energy Technology Development and Consulting
12. Center for Environmental Technology in Ho Chi Minh City
13. Da Nang Environmental Technology Center

FACTS AND FIGURES

13 Research and Development Units

237 Staff members

1 SCIENTIFIC RESEARCH

1000++

published research papers

500++

research projects
(2023 updated)

2 ACADEMIC

47

PhD candidates

70

master students

3 INTERNATIONAL COOPERATION ACTIVITIES

40

active MOUs co-signed with international R&D institutions.

14

Assignments and projects joint-implemented with international R&D institutions

12

international conferences hosted/organize



OUR VISION

The Institute of Science and Technology for Energy and Environment aims to be Vietnam's leading Research and Development Institute specializing in the cutting-edge technologies in Energy and Environment to support the goals of sustainability, circular economy, and net-zero.

OUR MISSION

1 Scientific and Technological Research:

- Research on energy, environment, and related fields.
- Investigate national energy and environmental resources, propose sustainable solutions.

2 Technology Development:

- Research and develop new technologies for renewable energy and efficient fuel usage.
- Manufacture new devices and materials in the energy sector.
- Develop sustainable and secure energy systems.

3 Manufacturing and Production:

- Engineering, incubating and commercializing of energy and environmental technologies, materials, biological products.

4 Technology Deployment and Transfer:

- Deploy, apply, and transfer new research results in the energy and environmental fields.

5 Science and Technology Services:

- Provide consulting, surveys, and planning services for energy and the environment.
- Conduct quality inspection and energy audits.

6 Environmental Services:

- Consult and design environmental projects.
- Plan and evaluate environmental impacts.
- Monitor and assess environmental quality.
- Provide environmentally friendly technological processes.

7 Training and International Cooperation:

- Train high-quality human resources in energy and environmental science and technology.
- Collaborate internationally in research and technology related to energy and the environment.

DEPARTMENT OF ENVIRONMENTAL QUALITY ANALYSIS

★ Mission and duties:

- Development of environmental quality analysis techniques.
- Development of environmental toxicity analysis approaches.
- Development of nano TiO₂ materials utilized in hazardous substances treatment in air and water environments.
- Research and assessment of environmental pollutions of chemicals-related sources and its impact on human health.
- Conduct standardized environmental analyses.
- Delivery of fundamental and advanced training in environmental analysis.



DEPARTMENT OF ENVIRONMENTAL TOXICITY ANALYSIS

★ Mission and duties:

- Development of fundamental problems relevant to environmental toxicity analysis
- Research, design, and manufacture rapid environmental analysis technologies.
- Providing services of analysis and assessment of environmental quality for pollution control and environmental inspection.
- Providing consulting services for environmental impact assessment.
- Delivery of fundamental and advanced training in environmental analysis.



DEPARTMENT OF SOLID WASTE AND AIR POLLUTION TREATMENT TECHNOLOGY

★ Mission and duties:

- Conduct R&D and technology transfer on environmental pollution treatment technologies.
- Providing consulting and technical design services, technology transfer and equipment supply for environmental pollution treatment projects.
- Development on solid waste treatment using pyrolysis and thermo-liquefaction methods: incineration, gasification, carbonization.
- Development on materials transformation processes (industrial and agricultural solid waste, biochar...) into environmental pollution treatment materials.
- Development on advanced oxidation methods for wastewater treatment.
- Providing technical advisory service in environmental management: environmental quality management, environmental impact assessment and monitoring.
- Delivery of advanced training in environmental pollution treatment technologies.



DEPARTMENT OF WATER TREATMENT TECHNOLOGY

★ Mission and duties:

- Development on water and wastewater treatment system and technologies.
- Development on eco-friendly and affordable technologies in wastewater treatment.
- Providing consulting and monitoring/planning services for environmental protection of surface water, groundwater, sea water and water resources on islands.
- Water quality assessment and monitoring service.
- Providing consulting and technical design services, technology transfer and equipment supply for water and wastewater treatment projects.
- Delivery of training on water and wastewater treatment system and technologies.



DEPARTMENT OF ENVIRONMENTAL BIOTECHNOLOGY

★ Mission and duties:

- Biotechnologies deployment, using algae, plants, and environmentally friendly materials, for environmental pollution treatment.
- Conduct R&D in biologically active substances, indicator organisms, biological products, biological nanomaterials.
- R&D on environmental improvement to minimize heavy metals and pollutants accumulation in agricultural products for human health.
- Development in recycle and reuse waste and biomass management for environmental improvement and fertilizer production.
- R&D on biologically active substances from algae, medicinal herbs, and plants for functional food, cosmetics, and animal feed products....
- Providing technical consultation services and technologies transfer in biotechnologies.
- International cooperation and experts training in biotechnology field.



DEPARTMENT OF RESEARCH AND DEVELOPMENT OF ECO-FRIENDLY TECHNOLOGY

★ Mission and duties:

- Development on fundamental environmentally friendly materials for production and daily life.
- Development on nanotechnology in production, healthcare and daily life .
- Development on environmentally friendly technologies in water supply, drainage, and environmental pollution treatment.
- Providing consulting and technology deployment of environmentally friendly technologies.
- Deployment of environmentally friendly materials, equipment and technologies.
- Providing consulting and project design and management in water supply, drainage systems and environmental treatment.

- Training experts in the field of environmentally friendly technologies, providing trained technical staff for production facilities.
- Providing chemical, physical and microbiological environmental assessment.



DEPARTMENT OF ENVIRONMENTAL ENHANCEMENT SOLUTIONS

★ Mission and duties:

- Research on pollutants variation and technical solutions for environmental quality enhancement.
- Research and develop technology solutions for environmental prevention and remediation.
- Implement practical technical solutions to enhance environmental quality.
- Research and develop simulation and forecasting models for quality management of surface water, groundwater, and coastal seawater.
- Research and assessment of environmental quality and impact assessment.
- Providing consultancy services on developing environmental policy/ strategies/ planning, integrated river basin and coastal area management.



CENTER FOR RESEARCH AND DEVELOPMENT OF MEMBRANE TECHNOLOGY

★ Mission and duties:

- Conduct fundamental research and apply advanced membrane technology and materials in the environmental and relevant sectors.
- Conduct fundamental research and deployment of membrane technology and advanced materials in the environmental and relevant sectors.
- Technology transfer in membrane solutions and advanced materials for environmental protection and relevant sectors.
- Provide scientific and technological services in the environmental and relevant sectors.
- International cooperation and training in membrane technology, advanced materials.



CENTER FOR SUSTAINABLE ENERGY DEVELOPMENT



★ Mission and duties:

- Research on energy security and sustainable development.
- Research and development of efficient energy and energy-saving practices.
- Research and development of smart energy systems for industrial and agricultural.



CENTER FOR RENEWABLE ENERGY TECHNOLOGIES DEVELOPMENT

★ **Mission and duties:**

- Research and development of electric grid and microgrid, and renewable energy complex.
- Research and development of solar energy, wind energy and renewable energy systems.
- Research and development of energy storage technologies and renewable energy sources.
- Research and development of energy storage technologies.



CENTER FOR ENERGY TECHNOLOGY DEVELOPMENT AND CONSULTING

★ **Mission and duties:**

- Research and development of hydropower and marine energy technologies.
- Research and development of energy digitalization and smart energy grid in urban environment and commercial buildings.
- Technology transfer in the energy sector and related infrastructure sectors.



CENTER FOR ENVIRONMENTAL TECHNOLOGY IN HO CHI MINH CITY

★ Mission and duties:

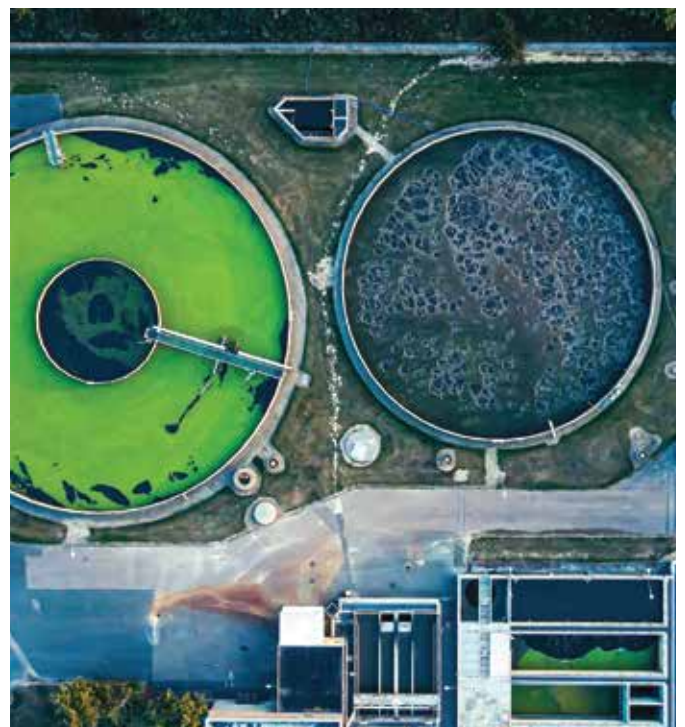
- Survey, research and environmental pollution assessment.
- Research and development of environmental treatment technologies.
- Technology transfer: solid waste, wastewater, and emission control; provision of environmental treatment materials and devices.
- Consultancy on Environmental Impact Assessment reports (EIA); wastewater treatment plant design, water management, and solid waste treatment and management.
- International cooperation and training professionals in environmental treatment technologies and analysis.



DA NANG ENVIRONMENTAL TECHNOLOGY CENTER

★ Mission and duties:

- Research and Development of environmental treatment technologies; analyzing the impact of pollutants on human health and ecosystems; perform environmental chemical, physical, and biological analysis; environmental quality assessment.
- Implementing environmental science and technologies into practices.
- Providing scientific consultancy services, technical design, and technology implementation of pollution treatment; assessing, monitoring and analyzing environmental impacts.
- Training professionals in environmental quality analysis
- International cooperation in environmental R&D.





ISTEE

INSTITUTE OF SCIENCE AND TECHNOLOGY FOR ENERGY AND ENVIRONMENT

INSTITUTE OF SCIENCE AND TECHNOLOGY FOR ENERGY AND ENVIRONMENT (HEADQUARTER)

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☎ Tel: 84.24.37569136

✉ Email: vanthu@istee.vast.vn

DA NANG ENVIRONMENTAL TECHNOLOGY CENTER

📍 Location: 334, Tran Dai Nghia Street, Hoa Hai Ward, Ngu Hanh Son District, Da Nang City, Vietnam

☎ Tel: 84.236.3967797

RENEWABLE ENERGY DEMONSTRATION FACILITY IN DAK LAK PROVINCE

📍 Location: VAST Central Highland Hi-tech Agriculture R&D Center
Buon Me Thuot City, Dak Lak Province, Vietnam

CENTER FOR ENVIRONMENTAL TECHNOLOGY IN HO CHI MINH CITY

📍 Location: 1, Mac Dinh Chi Street, Ben Nghe Ward, District 1, Ho Chi Minh City, Vietnam

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✉ Email: cet.istee@gmail.com

