Industrial University of Ho Chi Minh City

SDG 07
AFFORDABLE AND CLEAN ENERGY

IUH RANKINGS MANAGEMENT

SDG 7

AFFORDABLE AND CLEAN ENERGY

NĂNG LƯỢNG SẠCH VỚI GIÁ CẢ HỢP LÝ

THE Sustainability Impact Ratings 2027

Data year	Metrics	Indicators
2025	**4**	**14**

IUH's contribution to energy efficiency, clean energy adoption, carbon emission reduction, and support for communities and businesses in the transition to sustainable energy.













ENERGY GROUP

SDG Working Group • 7 members



Nguyễn Thanh Việt

GROUP LEADER

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Office of Testing and Quality assurance

Industrial University of Ho Chi Minh City

NHÓM 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.1 Energy-efficient renovation and building

Áp dụng tiêu chuẩn hiệu quả năng lượng đối với công trình xây mới và cải tạo.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Building modern educational facilities; Upgrading existing infrastructure (actual vs planned)	Review and issue the Rector's Decision on the "Regulations on Design, Construction and Renovation Standards for Energy-Saving and Energy-Efficient Buildings at IUH".	Official policy document issued/reviewed by the Rector during the 2021–2025 period; Full text made publicly available on the University's website	Office of Planning and Investment, Office of Facilities Administration	Q1 2025
Thrust 3: Modern Facilities & Student Experience	Improving the effectiveness of facilities maintenance; Assessing the energy performance of buildings	Integrate technical criteria on heat-insulating glass, unfired bricks and natural convection ventilation systems into the bidding documents for teaching-building renovation packages.	Technical design dossiers, bidding documents and completion acceptance records for classroom renovation packages complying with energy-saving standards	Office of Planning and Investment, Office of Facilities Administration	Q2–Q4 2025

Industrial University of Ho Chi Minh City

GROUP 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.1 Energy-efficient renovation and building

Áp dụng tiêu chuẩn hiệu quả năng lượng đối với công trình xây mới và cải tạo.

EVIDENCE OF ACTIVITIES



Article Title 1

IUH Ensures Energy Efficiency in All New and Renovated Buildings

Article URL:

IUH Ensures Energy Efficiency in All New and Renovated Buildings - Phòng Khảo thí và Đảm bảo Chất lượng

Activity description

Industrial University of Ho Chi Minh City (IUH) has incorporated energy efficiency considerations into campus construction, renovation and infrastructure upgrades through its Energy Conservation Programme, initiated in 2015. The University identifies Vietnam's National Technical Regulation on Energy Efficiency Buildings (QCVN 09:2017/BXD) as a technical reference for energy-conscious building development. Its reported measures include efficient lighting, ventilation, insulation and cooling systems. According to IUH's 2023 report, more than 80% of new floor area developed since 2018 incorporated energy-saving systems and materials, including LED lighting, inverter air conditioners, motion sensors and heat-insulated glass. These measures support more efficient building operation, improve learning and working conditions and help manage electricity demand, contributing to SDG 7.



Article Title 2

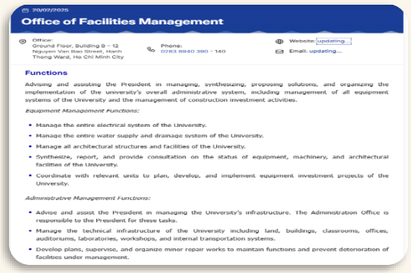
IUH Focuses on Upgrading Facilities towards Energy Efficiency

Article URL:

https://tqa.iuh.edu.vn/sdgs-article-2/iuh-chu-trong-cai-tao-co-so-vat-chat-theo-huong-tiet-kiem-nang-luong/

Activity description

In 2025, IUH continued improving campus energy performance through the installation and upgrading of energy-efficient lighting and air-conditioning systems. The University reported using high-efficiency 20W T8 LED tubes in classrooms, practical training facilities and corridors across Buildings A, B, C, F and X. It also prioritised Inverter air-conditioning units, including wall-mounted and ceiling cassette systems, in faculty offices, laboratories and working areas. These improvements provide suitable lighting and indoor conditions for students, lecturers and employees while offering opportunities to reduce electricity consumption in frequently used facilities. Supported by equipment procurement and inventory records, the upgrades demonstrate IUH's practical implementation of energy-saving measures in campus operations and contribute to SDG 7.



Article Title 3

Office of Facilities Management

Article URL:

https://iuh.edu.vn/en/phong-quan-tri.html

Activity description

In 2025, IUH strengthened the management and maintenance of campus infrastructure through the responsibilities of its Office of Facilities Management. The Office oversees buildings, electrical systems, classrooms, laboratories, workshops and other university facilities. Its duties include planning equipment investments, organising maintenance and repairs, monitoring electricity consumption, and coordinating technical inspections and acceptance procedures for newly constructed, repaired and renovated facilities. These responsibilities support the continued operation of essential building systems and provide information for identifying opportunities to improve energy and resource efficiency. Effective maintenance also helps ensure reliable learning, research and working environments while supporting the University's long-term infrastructure planning. By integrating technical oversight and electricity monitoring into facilities management, IUH reinforces its approach to responsible campus energy use, contributing to SDG 7.

Industrial University of Ho Chi Minh City

GROUP 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.1

Energy-efficient renovation and building

Áp dụng tiêu chuẩn hiệu quả năng lượng đối với công trình xây mới và cải tạo.

EVIDENCE OF ACTIVITIES



4

Article Title

IUH Implements Solar Power Systems at Buildings B and V

Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/iuh-trien-khai-he-thong-dien-mat-troi-tai-toa-nha-b-va-toa-nha-v/
https://tqa.iuh.edu.vn/sdgs-article-2/5668/

Activity description

Industrial University of Ho Chi Minh City (IUH) has integrated rooftop solar photovoltaic systems into Buildings B and V as part of its efforts to expand renewable energy use on campus. Introduced from 2022, the installations had a combined capacity of 75 kW according to the University's 2025 energy and environmental monitoring information. The system at Building V also provides practical learning opportunities for students in electrical engineering and related fields, connecting classroom knowledge with photovoltaic generation and energy conversion technologies. These installations provide supplementary renewable electricity while supporting technical demonstrations and learning activities. By incorporating solar power into existing campus infrastructure, IUH promotes renewable energy applications, diversifies its energy sources and supports more sustainable campus operations, contributing to SDG 7.

Industrial University of Ho Chi Minh City

NHÓM 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.2 Upgrade buildings to higher energy efficiency

Nâng cấp các công trình hiện hữu nhằm cải thiện hiệu quả sử dụng năng lượng.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Building a green campus; Reducing the electricity consumption rate (% reduction in power consumption)	Approve and implement the Project “Upgrading and Converting to High-Efficiency Electrical Equipment in Lecture Building Blocks for the 2024–2028 Period”, replacing 100% of fluorescent lamps with LED lamps.	Building upgrade project approved by the Board of Rectors; Equipment replacement progress report; Procurement invoices and documents for energy-saving equipment	Office of Planning and Investment, Office of Facilities Administration	Q1–Q3 2025
Thrust 3: Modern Facilities & Student Experience	Upgrading IT infrastructure and campus automation	Install infrared motion-sensor systems that automatically switch off lighting, fans and air conditioners when classrooms are unoccupied by students in Buildings E, V and B.	Acceptance record for the installation of smart sensor devices; Reconciliation report comparing electricity consumption before and after installing the automatic shut-off devices	Office of Planning and Investment, Office of Facilities Administration	Q2 & Q4 2025

Industrial University of Ho Chi Minh City

GROUP 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.2 Upgrade buildings to higher energy efficiency

Nâng cấp các công trình hiện hữu nhằm cải thiện hiệu quả sử dụng năng lượng.

EVIDENCE OF ACTIVITIES

1



Article Title

IUH Develops a Roadmap to Improve Energy Efficiency in Existing Buildings

Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/iuh-xay-dung-lo-trinh-nang-cao-hieu-qua-su-dung-nang-luong-tai-cac-cong-trinh-hien-huu/

Activity description

In March 2024, Industrial University of Ho Chi Minh City (IUH) conducted an energy audit at its main campus to assess electricity consumption and identify opportunities to improve existing buildings. The audit report, completed in April 2024, recommended replacing 12 ageing air-conditioning units with five-star energy-rated equipment (COP approximately 2.9), upgrading electric motors from IE2 to IE3 efficiency class during 2025–2027, and developing an energy management system aligned with TCVN ISO 50001:2021. These recommendations provide a technical basis for prioritising equipment replacement, planning infrastructure investments and improving energy management. By identifying inefficient systems before making upgrades, IUH supports more informed investment decisions and the progressive improvement of building energy performance.

2



Article Title

IUH Focuses on Upgrading Facilities towards Energy Efficiency

Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/iuh-chu-trong-cai-tao-co-so-vat-chat-theo-huong-tiet-kiem-nang-luong/

Activity description

Industrial University of Ho Chi Minh City (IUH) has upgraded electrical equipment in existing classrooms, laboratories, practical training areas and administrative facilities to improve energy efficiency. The University has used high-efficiency 20W T8 LED tubes across Buildings A, B, C, F and X, while prioritising Inverter air-conditioning units and efficient wall-mounted and ceiling cassette systems for offices, laboratories and working areas. These improvements help maintain suitable lighting and indoor cooling conditions while reducing avoidable electricity consumption. By modernising frequently used equipment without requiring entirely new construction, IUH supports more efficient building operations, improves the learning and working environment, and contributes to the responsible management of campus resources.

3



Article Title

Office of Facilities Management

Article URL

https://iuh.edu.vn/en/phong-quan-tri.html

Activity description

Industrial University of Ho Chi Minh City (IUH), through its Office of Facilities Management, oversees the maintenance and technical management of campus infrastructure to support efficient building operations. Its responsibilities include managing electrical systems, monitoring and recording electricity consumption, preparing equipment investment and maintenance plans, and coordinating technical inspections and acceptance of construction and renovation works. These functions help the University assess facility conditions, identify equipment requiring maintenance or replacement, and coordinate infrastructure improvements. By connecting electricity monitoring and routine maintenance with energy audit recommendations, IUH strengthens its capacity to prioritise investments, maintain reliable classrooms and laboratories, and improve the long-term management of energy resources.

Industrial University of Ho Chi Minh City

NHÓM 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.3 Carbon reduction and emission reduction process

Quy trình quản lý carbon và giảm phát thải khí CO_2.

ACTION PLAN					
Strategic Thrust	**KPIs / Integrated PIs**	**Implementation Activities**	**Expected Outcomes**	**Implementing Unit**	**Implementation Timeline**
Thrust 3: Modern Facilities & Student Experience	Reducing carbon emissions (Reduce carbon footprint); Measuring the carbon footprint	Issue the "Greenhouse Gas Inventory Procedure and CO_2 Emission Reduction Plan at IUH", specifying the methodology for calculating Scope 1 (fuel) and Scope 2 (purchased electricity) emissions.	Official carbon inventory procedure; The University's 2024 annual greenhouse gas inventory report, confirmed by the Science Council	Institute of Environmental Science, Engineering and Management (IESEM), Office of Facilities Administration	Q1–Q2 2025
Thrust 1: Pioneering Education and Research	Promoting project-based learning (PBL); Applied research for environmental protection	Lecturers and students of IESEM carry out the research project "Auditing Carbon Emissions from the Commuting Transport of Staff and Students and Proposing Neutralisation Solutions".	Research results report on the carbon audit project; Proposed roadmap for transitioning to electric vehicles on campus	Institute of Environmental Science, Engineering and Management (IESEM)	Q2 & Q4 2025

Industrial University of Ho Chi Minh City

GROUP 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.3

Carbon reduction and emission reduction process

Quy trình quản lý carbon và giảm phát thải khí CO_2.

EVIDENCE OF ACTIVITIES

1



Article Title

IUH Develops a Carbon Management and Greenhouse Gas Emission Reduction Procedure

Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/iuh-xay-dung-quy-trinh-quan-ly-carbon-va-giam-phat-thai-khi-nha-kinh/

Activity description

Industrial University of Ho Chi Minh City (IUH) has developed a draft Carbon Management and Greenhouse Gas Emission Reduction Procedure to establish an institutional framework for identifying, quantifying, monitoring and reducing greenhouse gas emissions. Structured into five chapters and eleven articles, the draft covers emission source identification and classification, data collection, carbon dioxide equivalent (CO_2e) calculation, reporting, reduction measures and institutional responsibilities. It also links emissions accounting with operational decision-making, technical interventions and follow-up assessment. The proposed procedure provides guidance for administrative and technical units in coordinating data collection and monitoring, while giving university management a basis for assessing carbon-related performance and setting improvement priorities. This initiative supports a more systematic and accountable approach to managing emissions and promoting environmentally responsible campus operations.

2



Article Title

IUH Implements Greenhouse Gas Inventory Following ISO 14064-1 and Decree No. 06/2022/NĐ-CP

Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/iuh-implements-greenhouse-gas-inventory-following-iso-14064-1-and-decree-no-06-2022-nd-cp/

Activity description

On 15 May 2025, Industrial University of Ho Chi Minh City (IUH) reported the implementation of greenhouse gas inventory activities aligned with ISO 14064-1:2018 and Vietnam's Decree No. 06/2022/NĐ-CP. The activities involve identifying emission sources, collecting operational data, calculating greenhouse gas emissions and preparing information for environmental monitoring and reporting. IUH also organised professional training, workshops and internal seminars for faculties, departments and administrative units on inventory principles, legal requirements, calculation methods, data collection and reporting responsibilities. Its published carbon management approach focuses on direct emissions from campus activities and indirect emissions associated with purchased energy, corresponding to Scope 1 and Scope 2. These activities strengthen staff capacity and provide a more consistent information base for assessing emissions and planning future reduction measures.

3

Hình ảnh hoạt động

Article Title

IUH Sustainable Energy & Environmental Monitoring Report (2024–2025)

Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/5668/

Activity description

Industrial University of Ho Chi Minh City (IUH) has identified energy-efficient technologies and renewable electricity as practical measures supporting its greenhouse gas reduction objectives. Measures outlined in its carbon management framework include replacing conventional lighting with LED systems, using high-efficiency Inverter air-conditioning, improving equipment operation and maintenance, expanding rooftop solar electricity generation and encouraging environmentally responsible transportation. Supporting campus infrastructure includes rooftop solar photovoltaic systems at Buildings B and V, with a combined installed capacity of 75 kW, as well as 20W T8 LED lighting and energy-efficient cooling systems in academic and working areas. These technologies provide practical examples of reducing electricity demand and dependence on grid electricity. They also create learning opportunities for students in electrical engineering and related disciplines while supporting IUH's broader energy efficiency and carbon management objectives.

Industrial University of Ho Chi Minh City

GROUP 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.3 Carbon reduction and emission reduction process

Quy trình quản lý carbon và giảm phát thải khí CO_2.

EVIDENCE OF ACTIVITIES



4

Article Title

Carbon Reduction Commitment and Net-Zero Roadmap of Industrial University of Ho Chi Minh City (IUH)

Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/carbon-reduction-commitment-and-net-zero-roadmap-of-industrial-university-of-ho-chi-minh-city-iuh/

Activity description

Industrial University of Ho Chi Minh City (IUH) is strengthening its long-term greenhouse gas management through emissions monitoring, institutional planning and continuous improvement. Its proposed carbon management procedure outlines responsibilities for data collection, record keeping and periodic evaluation of emission reduction measures. The draft also refers to an implementation plan with baseline information, objectives, actions, timelines and performance indicators. On 25 November 2025, IUH publicly committed to reducing Scope 1 and Scope 2 greenhouse gas emissions and progressing towards net-zero emissions by 2050, identifying a comprehensive institutional emissions baseline as a foundation for measurable targets and progress monitoring. The University has also integrated electricity consumption reduction into annual institutional KPIs. These measures support more coordinated environmental management, informed investment decisions and accountability in the University's long-term sustainability efforts.

Industrial University of Ho Chi Minh City

NHÓM 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.4 Plan to reduce energy consumption

Kế hoạch giảm tổng mức tiêu thụ năng lượng.

ACTION PLAN					
Strategic Thrust	**KPIs / Integrated PIs**	**Implementation Activities**	**Expected Outcomes**	**Implementing Unit**	**Implementation Timeline**
Thrust 3: Modern Facilities & Student Experience	Reducing the electricity consumption rate (% reduction in power consumption); Energy management	Issue the 2025 Plan for Digitalising Energy Management and Comprehensive Electricity Saving, assigning targets for reducing wasted electricity to each Faculty, Institute and Office.	Action plan to reduce electricity consumption, signed and issued by the Rector; Table of electricity consumption quotas for each unit	Office of Facilities Administration	Q1 2025
Thrust 3: Modern Facilities & Student Experience	Assessing 5S standards; A civilised and disciplined working environment	Stipulate operating hours for centralised air conditioning (switched on after 8:00, temperature set at ≥ 26°C) and sanctions for units that fail to switch off electrical equipment after working hours.	Directive notice from the Board of Rectors on electricity-saving practices; Records of periodic and unannounced 5S inspections on switching off equipment outside working hours	Office of Organisation and Administration, Office of Facilities Administration	Monthly throughout 2025

Industrial University of Ho Chi Minh City

GROUP 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.4 Plan to reduce energy consumption

Kế hoạch giảm tổng mức tiêu thụ năng lượng.

EVIDENCE OF ACTIVITIES

1



Article Title

IUH Sustainable Energy & Environmental Monitoring Report (2024–2025)

Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/5668/

Mô tả hoạt động *(dưới 200 từ)*

Industrial University of Ho Chi Minh City (IUH) has incorporated electricity consumption reduction into its institutional management and performance monitoring framework. According to its Sustainable Energy and Environmental Monitoring Report (2024–2025), electricity reduction has been included in annual Key Performance Indicators (KPIs) since 2021. The University's 2025–2035 KPI framework links Green Campus development with indicators such as 5S workplace practices, electricity consumption reduction and water conservation. In addition, IUH's SDG 7 report identifies a three-to-five-year plan to reduce per-capita electricity consumption through streamlined and automated processes. These targets provide a basis for monitoring energy performance, reviewing consumption trends and integrating energy efficiency into operational priorities and resource allocation.

2



Article Title

IUH Focuses on Upgrading Facilities towards Energy Efficiency

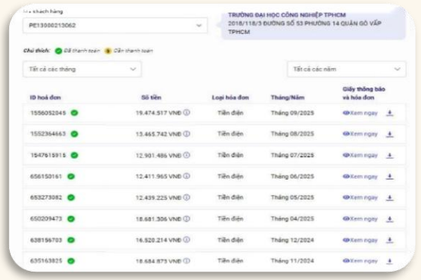
Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/iuh-chu-trong-cai-tao-co-so-vat-chat-theo-huong-tiet-kiem-nang-luong/
https://tqa.iuh.edu.vn/sdgs-article-2/iuh-xay-dung-lo-trinh-nang-cao-hieu-qua-su-dung-nang-luong-tai-cac-cong-trinh-hien-huu/

Mô tả hoạt động *(dưới 200 từ)*

Industrial University of Ho Chi Minh City (IUH) has undertaken infrastructure improvements to reduce electricity demand from frequently used campus systems. The University has upgraded lighting with high-efficiency 20W T8 LED tubes in classrooms, practical training rooms and corridors across Buildings A, B, C, F and X, while prioritising Inverter air-conditioning systems in faculty offices, laboratories and administrative areas. These improvements are complemented by an energy audit conducted at the main campus in March 2024, with a report completed in April 2024. The audit identified further opportunities, including replacing ageing air-conditioning units, upgrading electric motors from IE2 to IE3 efficiency class during 2025–2027, and considering an energy management system aligned with TCVN ISO 50001:2021. Together, these measures support more efficient building operations and informed infrastructure investment planning.

3



Article Title

Office of Facilities Management

Article URL

https://iuh.edu.vn/en/phong-quan-tri.html

Mô tả hoạt động *(dưới 200 từ)*

Industrial University of Ho Chi Minh City (IUH) monitors electricity consumption and manages campus infrastructure to support more efficient operations. Its Sustainable Energy and Environmental Monitoring Report (2024–2025) presents electricity consumption information across reporting periods, alongside renewable electricity generation and operational measures for improving resource efficiency. The University's Office of Facilities Management is responsible for managing electrical infrastructure, monitoring electricity consumption, organising equipment maintenance and coordinating construction and renovation activities. These responsibilities connect energy data collection with technical management and infrastructure planning. By reviewing electricity consumption and equipment conditions, IUH can identify areas requiring attention, assess maintenance needs and inform investment priorities. This approach supports the reliability of teaching and working facilities while strengthening institutional capacity for energy monitoring and responsible resource management.

Industrial University of Ho Chi Minh City

GROUP 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.4 Plan to reduce energy consumption

Kế hoạch giảm tổng mức tiêu thụ năng lượng.

EVIDENCE OF ACTIVITIES



4

Article Title

IUH Sustainable Energy & Environmental Monitoring Report (2024–2025)

Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/5668/

Activity description

Industrial University of Ho Chi Minh City (IUH) has integrated rooftop solar photovoltaic systems into its campus infrastructure to supplement electricity supplied from the grid. Operating at Buildings B and V since 2022, the two installations have a combined capacity of 75 kW. According to the University's 2025 energy monitoring report, the systems are estimated to generate approximately 116,000–130,000 kWh of renewable electricity annually. On-site generation helps reduce reliance on purchased grid electricity and diversifies the University's energy supply. The installations also provide practical learning opportunities for students in electrical engineering and related disciplines, allowing them to connect theoretical knowledge with operational renewable energy systems. Combined with energy-saving measures, rooftop solar generation supports IUH's efforts to improve energy resource management and advance lower-carbon campus operations.

Industrial University of Ho Chi Minh City

NHÓM 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.5 Energy wastage identification

Rà soát và xác định các khu vực lãng phí năng lượng.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 1 & Thrust 3: Applied Research & Modern Facilities	Energy audit; Improving the effectiveness of technical systems maintenance	The Faculty of Electrical Technology, in coordination with IESEM, uses specialised measuring equipment (thermal cameras, power network parameter analysers) to conduct a comprehensive energy audit at workshop buildings and transformer stations.	Detailed Energy Audit Report for 2024/2025; List of electricity-wastage hotspots and table of remedial recommendations	Office of Finance and Accounting, Office of Facilities Administration	Q1 & Q3 2025
Thrust 3: Modern Facilities & Student Experience	Remedying faults and optimising the internal power transmission system	Implement renovation of overloaded conductors, phase balancing of the power grid, and replacement of low-voltage compensation capacitors at transformer stations to reduce technical electricity losses.	Acceptance dossier for remedying energy wastage points; Reconciliation report on the reduction of power losses on the lines after maintenance	Office of Facilities Administration	Q2 & Q4 2025

Industrial University of Ho Chi Minh City

GROUP 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.5

Energy wastage identification

Rà soát và xác định các khu vực lãng phí năng lượng.

EVIDENCE OF ACTIVITIES



Article Title 1

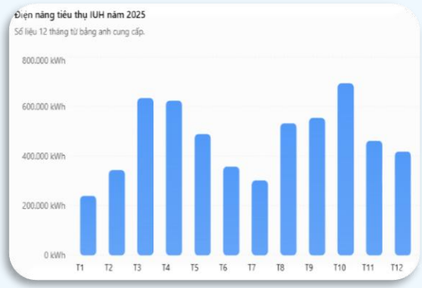
IUH Develops a Roadmap to Improve Energy Efficiency in Existing Buildings

Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/iuh-xay-dung-lo-trinh-nang-cao-hieu-qua-su-dung-nang-luong-tai-cac-cong-trinh-hien-huu/

Activity description

Industrial University of Ho Chi Minh City (IUH) conducts periodic internal energy audits every one to two years to identify energy inefficiencies and establish improvement priorities. An audit at the main campus in March 2024, with its report completed in April 2024, assessed air-conditioning systems, electric motors and energy management practices. It proposed replacing 12 ageing air-conditioning units with five-star energy-rated alternatives with a coefficient of performance (COP) of approximately 2.9, upgrading electric motors from IE2 to IE3 efficiency class during 2025–2027, and developing an energy management system aligned with TCVN ISO 50001:2021. These assessments provide a technical basis for identifying inefficient equipment, prioritising potential upgrades and supporting more informed decisions on infrastructure investment and energy conservation.



Article Title 2

IUH Monitors Electricity Consumption, Analyses Energy Demand, and Identifies Opportunities to Improve Operational Efficiency

Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/iuh-monitors-electricity-consumption-analyses-energy-demand-and-identifies-opportunities-to-improve-operational-efficiency/

Activity description

Industrial University of Ho Chi Minh City (IUH) monitors electricity consumption as part of its institutional facilities management and environmental performance framework. Its Sustainable Energy and Environmental Monitoring Report (2024–2025) presents electricity consumption data by reporting period and includes energy reduction indicators in the University's institutional KPI framework. Through its Office of Facilities Management, IUH monitors electricity use, manages electrical infrastructure, organises equipment maintenance and coordinates technical improvements. Reviewing consumption data alongside building utilisation, operating schedules and equipment conditions helps identify fluctuations and areas that may require further investigation. This information supports facilities managers in assessing operational practices, prioritising technical inspections and considering energy-saving measures. By integrating consumption monitoring with maintenance and performance management, IUH strengthens its capacity to identify potential inefficiencies and improve campus energy management.



Article Title 3

IUH Focuses on Upgrading Facilities towards Energy Efficiency

Article URL

https://tqa.iuh.edu.vn/sdgs-article-2/iuh-chu-trong-cai-tao-co-so-vat-chat-theo-huong-tiet-kiem-nang-luong/

Activity description

Industrial University of Ho Chi Minh City (IUH) integrates 5S workplace practices and energy-efficient equipment improvements into its approach to reducing energy wastage. Its 2025 SDG 7 report identifies the application of 5S principles—Sort, Set in Order, Shine, Standardise and Sustain—as part of its resource-efficiency efforts. The University's 2025–2035 KPI framework also includes 5S implementation alongside electricity and water consumption reduction indicators under its Green Campus objectives. Complementary infrastructure improvements include 20W T8 LED lighting in classrooms, practical training rooms and corridors across Buildings A, B, C, F and X, as well as the prioritisation of Inverter air-conditioning systems. These practices and technologies support better workplace organisation, more efficient equipment operation and responsible energy use, while helping maintain suitable conditions for teaching, learning and administrative activities.

Industrial University of Ho Chi Minh City

NHÓM 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.6 Divestment policy

Chính sách thoái vốn khỏi các ngành năng lượng có mức phát thải carbon cao.

ACTION PLAN					
Strategic Thrust	**KPIs / Integrated PIs**	**Implementation Activities**	**Expected Outcomes**	**Implementing Unit**	**Implementation Timeline**
Thrust 5: Financial Sustainability and Autonomy	Financial risk management and sustainable business planning; Responsible investment	Issue the Decision of the University Council/Rector on the "Policy on Financial Management and Responsible Investment (ESG Divestment Policy at IUH)", committing to exclude investment in coal and oil.	Official Resolution/Decision issuing the Policy on Divestment from the Fossil Fuel Energy Sector during the 2021–2025 period; Full text made publicly available on the website	Office of Organisation and Administration,	Q1 2025
Thrust 5: Financial Sustainability and Autonomy	Reviewing and verifying financial investment portfolios and bank deposits	Periodically review the University's deposit and financial contracts to ensure that banks and partners do not finance or invest in coal-fired power projects.	Annual financial portfolio review report; Green investment standards commitment records from partner banks	Office of Finance and Accounting, Office of Organisation and Administration	Q2 & Q4 2025

Industrial University of Ho Chi Minh City

GROUP 7.2 – University measures towards affordable and clean energy

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.2.6

Divestment policy

Chính sách thoái vốn khỏi các ngành năng lượng có mức phát thải carbon cao.

EVIDENCE OF ACTIVITIES

1



Article Title

IUH Signs Cooperation Agreement with EVNPECC4

Article URL

https://www.facebook.com/share/p/1A5PEnyLqF/

Activity description

On 14 November 2025, Industrial University of Ho Chi Minh City (IUH) signed a cooperation agreement with Power Engineering Consulting Joint Stock Company 4 (EVNPECC4) to strengthen collaboration in research, professional training and technology development for Vietnam's power sector. The agreement covers research into renewable energy integration, flexible generation and emerging electricity technologies, as well as the development of technical products, software, engineering solutions and standards. Cooperation also includes postgraduate education, internships, industry seminars and the participation of EVNPECC4 specialists in academic activities. This partnership connects university expertise with industry requirements, creating opportunities for applied research, technology transfer and professional capacity development. Students and researchers can engage with practical engineering challenges relevant to renewable energy integration and the development of modern electricity systems.

2



Article Title

Panasonic Vietnam Sponsors an HVAC Solutions Centre for IUH and Inaugurates a Modern Laboratory

Article URL

https://smia.iuh.edu.vn/news.html@detail@244@1054@Panasonic-Viet-Nam-tai-tro-Trung-tam-giai-phap-HVAC-cho-Dai-hoc-Cong-nghiep-TP.HCM-va-khanh-thanh-phong-Lab-hien-dai

Activity description

On 8 May 2025, Industrial University of Ho Chi Minh City (IUH) received the Panasonic-sponsored HVAC Solutions Centre and inaugurated an advanced laboratory at Room V6.01. The facility features residential and commercial air-conditioning technologies, variable refrigerant flow (VRF) systems, ventilation, air filtration and indoor air quality monitoring technologies. The centre strengthens collaboration between IUH and Panasonic in applied technical education, research and industry engagement. Students gain opportunities to work with modern HVAC equipment, develop practical competencies and understand technologies designed for energy-efficient operation. Lecturers and researchers can use the facilities for technical demonstrations, practical teaching and engineering studies related to cooling performance and building energy efficiency. The centre also supports the development of graduates familiar with contemporary industrial technologies and professional requirements.

3



Article Title

Workshop on Future Trends in the Energy Sector for Renewable Energy Development

Article URL

https://feet.iuh.edu.vn/news.html@detail@256@1381@Hoi-thao-Xu-huong-tuong-lai-cua-nganh-nang-luong-doi-voi-su-phat-trien-cua-nang-luong-tai-tao%E2%80%9D-

Activity description

On 3 September 2025, IUH's Faculty of Electrical Engineering Technology organised the scientific workshop “Future Trends in the Energy Sector for Renewable Energy Development”, bringing together international academic and industry experts, lecturers and students. Representatives from National Ilan University and Giant Energy Technology, Taiwan, shared perspectives on renewable energy technologies, development policies and solar power projects in Taiwan, Australia and the United States. The workshop provided opportunities to examine how technology, investment conditions, regulatory frameworks and engineering capacity influence renewable energy deployment. Students gained exposure to international examples of clean energy development, while lecturers and researchers had opportunities to exchange technical knowledge and explore potential academic and industry cooperation. Through this international knowledge exchange, IUH supported professional awareness and capacity building in renewable energy development.

Industrial University of Ho Chi Minh City

NHÓM 7.3 – Energy use density

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.3.1

Energy use density

Mật độ sử dụng năng lượng tại Trường

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Upgrading facilities for teaching and learning; Compiling statistics on built floor area	Compile as-built records and accurately extract the total built floor area (m²) of all teaching buildings, laboratories, halls and dormitories at all training campuses.	Floor area statistics for all buildings across the University (m²), certified by the Office of Facilities Administration, for submission to the THE data portal	Office of Facilities Administration, Office of Planning and Investment	Q1–Q2 2025
Thrust 1 & Thrust 5: Data Governance & Financial Autonomy	Standardising University-wide data; Converting electricity and fuel into Gigajoules (GJ)	Collect all grid electricity invoices and official-vehicle fuel purchase documents for 2025; convert everything into the standard energy unit, the Gigajoule (1 kWh = 0.0036 GJ).	Standardised data report: Total energy consumption (GJ) and Consumption intensity (GJ/m² of floor area) for 2025; Document reconciliation table for the THE ranking audit	Office of Testing and Quality Assurance, Office of Facilities Administration	Q2–Q4 2025

Industrial University of Ho Chi Minh City

NHÓM 7.3 – Energy use density

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.3.1 Energy use density

Mật độ sử dụng năng lượng tại Trường

DỮ LIỆU CẦN THU THẬP

Dữ liệu	Giá trị
Total energy used Tổng năng lượng sử dụng năm .	40,679 GJ
University floor space **Tổng diện tích sàn các công trình**	215,936 m²

COMMENT

In 2025, IUH implemented significant infrastructure modernisation and operational restructuring to improve energy efficiency. The University phased out many ageing, inefficient electrical devices and introduced energy-saving technologies, including LED lighting and Inverter air-conditioning. IUH also discontinued the use of deteriorated facilities and relocated teaching and operational activities to more modern buildings equipped with efficient technical systems. These changes improved facility utilisation, reduced reliance on outdated equipment and helped limit unnecessary energy consumption. The transition to more efficient infrastructure contributes to explaining the lower reported total energy consumption in 2025 compared with 2024, while supporting sustainable campus operations and long-term resource efficiency.

Industrial University of Ho Chi Minh City

NHÓM 7.4 – Energy and the community

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.4.1

Local community outreach for energy efficiency

Cung cấp chương trình giáo dục cộng đồng về hiệu quả năng lượng và năng lượng sạch.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 2: Promoting Community Engagement	Expanding community engagement activities; Strengthening community training courses	The Faculty of Electrical Technology leads the organisation of the training course “Skills for Safe and Energy-Saving Use of Electrical Equipment and Rooftop Solar Installation Solutions for Households” (free of charge).	Organisation plan; Electricity-saving guidance materials; List of participating residents; Media report published on the University’s website	Office of Facilities Administration, Specialised Faculties/Institutes	Q2 & Q3 2025
Thrust 2: Promoting Community Engagement	Community service volunteer campaigns; Residential electrical safety	A volunteer team from the Electrical major implements the “Safe Lighting” programme: inspecting and replacing incandescent bulbs free of charge with energy-saving LED lamps for poor local households.	Summary report on the electrical safety campaign; List of supported households; Thank-you letters from local ward/commune People’s Committees	Office of Facilities Administration	July–August 2025

Industrial University of Ho Chi Minh City

GROUP 7.4 – Energy and the community

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.4.1

Local community outreach for energy efficiency

Cung cấp chương trình giáo dục cộng đồng về hiệu quả năng lượng và năng lượng sạch.

EVIDENCE OF ACTIVITIES



Article Title 1

International Workshops on "Energy Transition and Sustainability" and "Sustainable Cooling: Principles and Practices"

Article URL

https://fhre.iuh.edu.vn/news.html@detail@272@658@HOI-THAO-%E2%80%9CCHUYEN-DOI-NANG-LUONG-VA-SU-BEN-VUNG%E2%80%9D-&-%E2%80%9CKY-THUAT-LANH-BEN-VUNG-%E2%80%93-NGUYEN-LY-VA-UNG-DUNG%E2%80%9D

Activity description

On 4–5 March 2025, the Faculty of Heat and Refrigeration Engineering at Industrial University of Ho Chi Minh City (IUH) organised two international workshops, "Energy Transition and Sustainability" and "Sustainable Cooling: Principles and Practices", featuring Professor Sivanappan Kumar, an international expert in energy and sustainable cooling. The workshops facilitated academic exchange on energy transition, efficient energy utilisation and environmentally responsible cooling technologies. Through technical discussions, lecturers and students explored approaches to improving refrigeration and air-conditioning performance, conserving electricity and reducing the environmental impacts of cooling operations. The programme connected engineering education with international expertise and practical industry challenges, strengthening participants' awareness and technical knowledge of energy efficiency and sustainable cooling solutions.



Article Title 2

Workshop on Future Trends in the Energy Sector for Renewable Energy Development

Article URL

https://feet.iuh.edu.vn/news.html@detail@256@1381@Hoi-thao-Xu-huong-tuong-lai-cua-nganh-nang-luong-doi-voi-su-phat-trien-cua-nang-luong-tai-tao%E2%80%9D-

Activity description

On 3 September 2025, the Faculty of Electrical Engineering Technology at Industrial University of Ho Chi Minh City (IUH) organised the scientific workshop "Future Trends in the Energy Sector for Renewable Energy Development", featuring Professor Cheng Hu Chen from National Ilan University and Mr Albert Lin, CEO of Giant Energy Technology, Taiwan. The workshop provided a platform for lecturers and students to exchange knowledge on renewable energy technologies, industry developments and clean energy applications. Presentations highlighted renewable energy policies and project experiences in Taiwan, Australia and the United States, particularly in solar energy development. By connecting international academic expertise and industry experience with engineering education, the activity broadened participants' understanding of renewable energy implementation and its technical and policy considerations, while supporting professional capacity development for the transition towards sustainable energy systems.



Article Title 3

AI in Smart Electrical Systems – A Technological Innovation at IUH

Article URL

https://feet.iuh.edu.vn/news.html@detail@256@1415@AI-trong-he-thong-dien-thong-minh-cua-ABB-Buoc-tien-doi-moi-cong-nghe-tai-IUH

Activity description

On 14 November 2025, the Faculty of Electrical Engineering Technology at Industrial University of Ho Chi Minh City (IUH), in collaboration with ABB Vietnam, organised the workshop "Digitalisation and AI Applications in Smart Electrical Systems". The event brought together university representatives, lecturers, students and industry specialists to discuss applications of digitalisation and artificial intelligence in intelligent monitoring, equipment management, power system control and operational optimisation. Through technical presentations and professional exchanges, participants explored how digital technologies can improve electricity system monitoring, operational efficiency and reliability. The workshop connected academic training with industrial expertise, helping students and lecturers update their knowledge of smart grids, automation and digital power technologies, while promoting awareness of technological solutions that support more efficient electricity management.

Industrial University of Ho Chi Minh City

GROUP 7.4 – Energy and the community

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.4.2

100% renewable energy pledge

Thúc đẩy cam kết công khai hướng tới sử dụng 100% năng lượng tái tạo.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 2: Promoting Community Engagement	Strengthening cooperation with sustainable development organisations and alliances	The Board of Rectors signs a public commitment to join the “Race to Zero” clean energy transition campaign / 100% Renewable Energy Initiative and announces it through the media.	Commitment statement from the University’s leadership; Media bulletin published on the University’s website and in the press; Confirmation letter of joining the clean energy pledge network	Office of Organisation and Administration, Office of Research Management and International Cooperation, Information and Communications Centre	Q1–Q2 2025
Thrust 1 & Thrust 2: Pioneering Education & Community Engagement	Organising sustainable energy dialogue forums for enterprises	Organise the seminar “Net Zero Commitments and the Renewable Energy Transition Roadmap for Industrial Enterprises”, attracting green pledge signatures from enterprise partners.	Seminar proceedings; List of enterprises signing agreements to commit to reducing emissions and using renewable energy; Multimedia communication bulletin	Office of Research Management and International Cooperation, Specialised Faculties/Institutes	Q3 2025

Industrial University of Ho Chi Minh City

GROUP 7.4 – Energy and the community

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.4.2

100% renewable energy pledge

Thúc đẩy cam kết công khai hướng tới sử dụng 100% năng lượng tái tạo.

EVIDENCE OF ACTIVITIES



Article Title 1

Workshop on Future Trends of the Energy Sector and Renewable Energy Development

Article URL

https://feet.iuh.edu.vn/news.html@detail@256@1381@Hoi-thao-Xu-huong-tuong-lai-cua-nganh-nang-luong-doi-voi-su-phat-trien-cua-nang-luong-tai-tao%E2%80%9D-

Activity description

On 3 September 2025, the Faculty of Electrical Engineering Technology at Industrial University of Ho Chi Minh City (IUH) organised the scientific workshop “Future Trends of the Energy Sector and Renewable Energy Development”, featuring Professor Cheng Hu Chen from National Ilan University and Mr Albert Lin, CEO of Giant Energy Technology, Taiwan. The workshop facilitated knowledge exchange on renewable energy technologies, development policies and practical experiences from solar energy projects in Taiwan, Australia and the United States. Discussions also introduced applications of artificial intelligence in energy management and robotic maintenance of photovoltaic systems. By connecting international academic expertise with industry experience, the activity broadened students’ and lecturers’ understanding of renewable energy technologies and encouraged informed engagement with cleaner energy solutions.



Article Title 2

Career Orientation Forum on Electrical and Electronic Engineering and Renewable Energy

Article URL

https://feet.iuh.edu.vn/news.html@detail@350@1518@TOA-DAM-DINH-HUONG-CHUYEN-NGANH-KY-THUAT-DIEN-DIEN-TU-%26-NANG-LUONG-TAI-TAO

Activity description

On 23 October 2025, the Faculty of Electrical Engineering Technology at Industrial University of Ho Chi Minh City (IUH) organised a career orientation forum on Electrical and Electronic Engineering and Renewable Energy at Lecture Hall E4. The event connected lecturers and students with representatives from WELKIN Vietnam, ESEC, Phoenix Contact, Cho Lon Power Company and Renais Energy. Discussions covered technological trends, renewable energy development, workforce requirements and career opportunities in the energy transition. Students gained direct insights into the technical skills, language abilities and innovative thinking required in modern energy-related professions, as well as potential internship and employment pathways. The forum also strengthened university–industry connections and provided lecturers with industry perspectives relevant to curriculum development and professional training.



Article Title 3

Notice Encouraging Students to Participate in the 2025 Competition on Energy Conservation and Efficient Energy Use

Article URL

https://feet.iuh.edu.vn/news.html@detail@351@1383@Thong-bao-Khuyen-khich-sinh-vien-tham-gia-Cuoc-thi-Tim-hieu-kien-thuc-ve-su-dung-nang-luong-tiet-kiem-va-hieu-qua-nam-2025%E2%80%9D

Activity description

On 6 October 2025, the Faculty of Electrical Engineering Technology at Industrial University of Ho Chi Minh City (IUH) published an official notice encouraging students to participate in the 2025 national competition on knowledge of energy conservation and efficient energy use. The initiative promoted awareness of responsible electricity consumption, energy-saving practices and efficient energy management. It provided students with an opportunity to engage with energy-related knowledge beyond regular coursework and explore the relationship between individual behaviour, technology and environmental responsibility. By encouraging participation in a national awareness initiative, IUH extended sustainability education into extracurricular activities and supported the development of a stronger culture of energy conservation within the university community.

Industrial University of Ho Chi Minh City

GROUP 7.4 – Energy and the community

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.4.2

100% renewable energy pledge

Thúc đẩy cam kết công khai hướng tới sử dụng 100% năng lượng tái tạo.

EVIDENCE OF ACTIVITIES



4

Article Title

IUH and EVNPECC4 Partner to Accelerate Innovation in the Electricity Sector

Article URL

https://www.facebook.com/iccenter.iuh/posts/iuh-v%C3%A0-evnpecc4-c%C3%B9ng-b%E1%BA%AFt-tay-t%C4%83ng-t%E1%BB%91c-%C4%91%E1%BB%95i-m%E1%BB%9Bi-s%C3%A1ng-t%E1%BA%A1o-trong-ng%C3%A0nh-%C4%91i%E1%BB%87nv%C3%A0o-ng%C3%A0y-/1300851292071109/

Activity description

On 14 November 2025, Industrial University of Ho Chi Minh City (IUH) signed a cooperation agreement with Power Engineering Consulting Joint Stock Company 4 (EVNPECC4), establishing a framework for research, training, technical consultancy and technology development in the electricity sector. The partnership focuses on emerging challenges, including renewable electricity integration, flexible generation and new energy technologies. Areas of cooperation include technical research, engineering solutions, software development, postgraduate education, professional training and technology transfer. The agreement also creates opportunities for IUH specialists to contribute to technical consultancy and training, while EVNPECC4 experts may support teaching, research supervision and student exposure to practical electricity infrastructure projects. This collaboration strengthens university–industry engagement and technical capacity relevant to the development of modern, cleaner energy systems.

Industrial University of Ho Chi Minh City

GROUP 7.4 – Energy and the community

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.4.3

Energy efficiency services for industry

Cung cấp dịch vụ hỗ trợ doanh nghiệp địa phương nâng cao hiệu quả sử dụng năng lượng và ứng dụng năng lượng sạch.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 1: Pioneering Education and Research	Developing consultancy and technology transfer services; Increasing partner satisfaction	Provide professional energy audit services and consultancy on electricity-saving solutions for factories and enterprises in industrial zones in Ho Chi Minh City and Binh Duong.	Consultancy/energy audit service contracts; Energy audit reports submitted to clients; Acceptance records and enterprise satisfaction assessments	Office of Research Management and International Cooperation	Q1–Q4 2025
Thrust 1 & Thrust 2: Pioneering Application & Community Engagement	Short-term capacity-building training for enterprise personnel	Organise the training course “Energy Managers in Accordance with the Law on Economical and Efficient Use of Energy” for engineers and workshop managers at industrial factories.	Enrolment announcement; Training programme framework; List of participating enterprise trainees and certification decisions	Office of Academic Affairs, Institute of International Education and Postgraduate Studies	Q2 & Q4 2025

Industrial University of Ho Chi Minh City

GROUP 7.4 – Energy and the community

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.4.3

Energy efficiency services for industry

Cung cấp dịch vụ hỗ trợ doanh nghiệp địa phương nâng cao hiệu quả sử dụng năng lượng và ứng dụng năng lượng sạch.

EVIDENCE OF ACTIVITIES



Article Title 1

International Conference on Hydrogen Development Orientation at Industrial University of Ho Chi Minh City

Article URL

https://iuh.edu.vn/vi/nghien-cuu/hoi-thao-quoc-te-ve-dinh-huong-phat-trien-hydro-tai-truong-dai-hoc-cong-nghiep-tphcm-2100.html

Activity description

On 5 December 2025, Industrial University of Ho Chi Minh City (IUH) hosted the International Hydrogen Roadmap Conference under the theme “Vietnam and ASEAN’s Hydrogen Pathways in the Global Landscape”. The event brought together research institutions, international organisations, energy technology companies and professional networks to exchange knowledge on hydrogen development and industrial applications. Technical presentations from organisations including Neuman & Esser Group, Kawasaki Vietnam and thyssenkrupp Nucera covered hydrogen production, electrolysis, commercial applications and potential cooperation. HB Green also demonstrated hydrogen welding equipment and a hydrogen gas stove, while IUH researchers presented research on biotechnology and conversion processes. The conference facilitated discussions on university–industry research, professional training and technology development, strengthening connections between academic expertise and emerging hydrogen technologies.



Article Title 2

IUH Signs Cooperation Agreement with a Leading Vietnamese Power Engineering Consultancy

Article URL

https://smia.iuh.edu.vn/news.html@detail@244@1096@IUH-ky-ket-hop-tac-voi-don-vi-tu-van-hang-dau-cua-Viet-Nam-trong-linh-vuc-dien

Activity description

On 14 November 2025, Industrial University of Ho Chi Minh City (IUH) signed a cooperation agreement with Power Engineering Consulting Joint Stock Company 4 (EVNPECC4), establishing a framework for collaboration in electricity system development, engineering research, technical training and technology transfer. The partnership addresses emerging challenges in Vietnam’s power sector, particularly renewable energy integration, flexible generation and new energy technologies. Cooperation areas include technical research, product and software development, engineering solutions, professional training, postgraduate supervision and research commercialisation. IUH specialists may contribute to technical consultancy and training, while EVNPECC4 experts may participate in teaching, seminars and research supervision. The agreement also creates opportunities for student internships and exposure to practical electricity infrastructure projects, strengthening links between university research and industry needs.



Article Title 3

IUH Receives Sponsored Electrical and Energy Equipment

Article URL

https://feet.iuh.edu.vn/news.html@detail@296@1436@IUH-tiep-nhan-tai-tro-thiet-bi-dien-va-nang-luong

Activity description

On 22 January 2026, Industrial University of Ho Chi Minh City (IUH) received sponsored electrical and energy equipment from Chint Vietnam Holding to support the development of its training and research facilities. The sponsored equipment included electrical switching and protection technologies, providing students with opportunities to become familiar with modern electrical equipment, protection systems and industrial technical standards. The handover also created opportunities for lecturers and researchers to strengthen practical teaching and exchange professional knowledge with company specialists. Chint Vietnam Holding expressed interest in further cooperation in green energy, smart electrical systems and industry placements for engineering students. The initiative strengthened university–industry engagement and supported practice-oriented engineering education.

Industrial University of Ho Chi Minh City

GROUP 7.4 – Energy and the community

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.4.4

Policy development for clean energy technology

Tham gia hỗ trợ xây dựng chính sách về công nghệ năng lượng sạch và sử dụng năng lượng hiệu quả.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 1: Pioneering Education and Research	Policy consultancy; Participation in social review and state expert councils	IUH experts participate in the advisory appraisal council for the Power Development Plan and the Energy Saving Action Plan of the Ho Chi Minh City Department of Industry and Trade (Local/Regional level).	Decision assigning experts; Comments on the energy plan; Policy recommendation report on promoting rooftop solar power for public buildings	Office of Research Management and International Cooperation, Specialised Faculties/Institutes	Q1–Q4 2025
Thrust 1 & Thrust 2: Strategic Research & Ministerial Engagement	National cooperation in developing sustainable energy policy	Participate in the Ministry of Industry and Trade's expert group to develop and comment on the draft National Technical Standards on energy efficiency and the direct power purchase agreement (DPPA) mechanism (National level).	Official letter from the Ministry requesting the assignment of experts; Policy contribution paper; Thank-you letter from the policy drafting committee	Specialised Faculties/Institutes	Q2–Q3 2025
Thrust 1: Pioneering Education and Research	International cooperation on the just energy transition (JETP)	Participate in international policy dialogue workshops with international renewable energy organisations (IRENA, GIZ, USAID) on microgrid models and energy storage (Global level).	International workshop proceedings; Policy recommendation report sent to international development organisations; Articles published on the portal	Office of Research Management and International Cooperation, Specialised Faculties/Institutes	Q3–Q4 2025

Industrial University of Ho Chi Minh City

GROUP 7.4 – Energy and the community

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.4.4

Policy development for clean energy technology

Tham gia hỗ trợ xây dựng chính sách về công nghệ năng lượng sạch và sử dụng năng lượng hiệu quả.

ACTIVITY



Article Title 1

IUH and EVNPECC4 Cooperate to Promote Innovation in the Electricity Sector

Article URL

https://www.facebook.com/share/p/18WpxUafDp/

Activity description

On 14 November 2025, Industrial University of Ho Chi Minh City (IUH) signed a cooperation agreement with Power Engineering Consulting Joint Stock Company 4 (EVNPECC4), establishing a framework for joint research, professional training and technology development in Vietnam's electricity sector. The partnership focuses on technical challenges associated with renewable energy integration, flexible power generation and emerging electricity technologies. Cooperation areas include the development of technical products, software, engineering solutions and relevant standards, as well as postgraduate education, internships, industry seminars and technology transfer. IUH may also provide technical consultancy and professional training to EVNPECC4, while company specialists can contribute to teaching and research supervision. The agreement strengthens university–industry connections and creates opportunities to develop technical expertise relevant to modern and more flexible electricity systems.



Article Title 2

Panasonic Vietnam Sponsors HVAC Solutions Centre and Inaugurates Modern Laboratory at IUH

Article URL

https://iuh.edu.vn/vi/tin-tuc/panasonic-viet-nam-tai-tro-trung-tam-giai-phap-hvac-cho-dai-hoc-cong-nghiep-tphcm-va-khanh-thanh-phong-lab-hien-dai-1944.html

Activity description

On 8 May 2025, Industrial University of Ho Chi Minh City (IUH) inaugurated the Panasonic-sponsored HVAC Solutions Centre and a modern laboratory at Room V6.01, supporting practical education and research in refrigeration and air-conditioning technology. The facility features residential and commercial air-conditioning systems, variable refrigerant flow (VRF) technology, ventilation, air filtration and indoor air quality monitoring solutions. These technologies provide students and lecturers with practical exposure to modern HVAC equipment and approaches to improving system performance and energy efficiency. The centre strengthens the connection between academic training and industrial applications, supporting students' technical competencies and lecturers' practical teaching and research. Through collaboration with Panasonic Vietnam, IUH contributes to developing professional capacity and disseminating knowledge relevant to energy-efficient cooling and sustainable building operations.



Article Title 3

Workshop on Future Trends in the Energy Sector for Renewable Energy Development

Article URL

https://feet.iuh.edu.vn/news.html@detail@256@1381@Hoi-thao-Xu-huong-tuong-lai-cua-nganh-nang-luong-doi-voi-su-phat-trien-cua-nang-luong-tai-tao%E2%80%9D-

Activity description

On 3 September 2025, the Faculty of Electrical Engineering Technology at Industrial University of Ho Chi Minh City (IUH) organised the scientific workshop "Future Trends in the Energy Sector for Renewable Energy Development", bringing together international academic and industry experts, lecturers and students. Representatives from National Ilan University and Giant Energy Technology, Taiwan, shared knowledge on renewable energy technologies, development policies and practical experiences from solar power projects in Taiwan, Australia and the United States. The workshop explored the relationship between technological innovation, investment conditions, regulatory frameworks and engineering capacity in renewable energy deployment. Through international knowledge exchange, students gained insights into clean energy development, while lecturers and researchers had opportunities to discuss emerging technologies and potential cooperation. The activity connected academic learning with international industry experience and supported awareness of renewable energy solutions.

Industrial University of Ho Chi Minh City

NHÓM 7.4 – Energy and the community

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.4.5 Assistance to low-carbon innovation

Hỗ trợ đổi mới sáng tạo và các doanh nghiệp khởi nghiệp hướng tới nền kinh tế carbon thấp.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 2: Promoting Community Engagement	Nurturing the entrepreneurial spirit; Providing a platform to support green start-ups	The IUH Innovation Incubator opens an intake round and provides free laboratory facilities and testing equipment to clean energy technology start-up teams.	Regulations on supporting low-carbon start-ups; List of green technology projects accepted for incubation at IUH; Photographs of start-up teams working in the lab	Office of Research Management and International Cooperation	Q1–Q4 2025
Thrust 1: Pioneering Education and Research	Promoting technology transfer; Commercialising inventions (Technology transfer)	Lecturers mentor student teams that won First Prize in the national SV.Startup competition with the project “Green Agriculture Solution – Eco House” to finalise their product and establish a spin-off enterprise.	Intellectual property dossier; Decision allocating seed funding for technology finalisation; Business registration certificate of the innovative start-up enterprise	Office of Research Management and International Cooperation, Specialised Faculties/Institutes	Q2 & Q4 2025

Industrial University of Ho Chi Minh City

GROUP 7.4 – Energy and the community

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.4.5 Assistance to low-carbon innovation

Hỗ trợ đổi mới sáng tạo và các doanh nghiệp khởi nghiệp hướng tới nền kinh tế carbon thấp.

EVIDENCE OF ACTIVITIES



Article Title 1

InnoGreenLife IUH Season 5: Dare to Think, Dare to Act for a Greener Life

Article URL

https://iuh.edu.vn/vi/tin-tuc/innogreenlife-iuh-mua-5-dam-nghi-dam-lam-vi-mot-cuoc-song-xanh-2056.html

Activity description

During 2025, Industrial University of Ho Chi Minh City (IUH) continued implementing the fourth InnoGreenLife Green Innovation and Entrepreneurship Competition, encouraging student-led solutions to environmental and sustainability challenges. The 2024–2025 competition attracted more than 70 ideas and projects, with 30 selected for the semifinal stage and ten finalists receiving individual mentoring before the final held on 31 May 2025. Supported projects included a solar-powered cooking system with thermal energy storage, solar-based sea salt production and a heat-pump-assisted honey dryer using ultrasound technology. Other initiatives addressed circular economy practices, waste reuse and sustainable production. Through project evaluation, technical mentoring and business development guidance, IUH helped students improve their ideas, assess practical feasibility and explore potential applications, strengthening green entrepreneurship and innovation capacity.

Hình ảnh hoạt động

Article Title 2

Announcement of Free Training on Technology Applications, Digital Transformation, AI and Green Transformation in Enterprises

Article URL

https://www.facebook.com/share/p/19zFYiJnAY/

Activity description

On 24 October 2025, Industrial University of Ho Chi Minh City (IUH) announced a free training initiative entitled “Technology Applications, Digital Transformation, AI and Green Transformation in Enterprises”, scheduled for 30 October 2025. Coordinated in connection with the Centre for Science and Technology Enterprise Development, the programme covered technology applications, artificial intelligence, digitalisation and green transformation in business operations. By publicising this training opportunity, IUH helped broaden access to knowledge relevant to technology adoption, operational improvement and sustainable enterprise development. The initiative supported awareness among students, lecturers and aspiring entrepreneurs of how digital tools and environmental considerations can be incorporated into business practices, encouraging the development of skills relevant to green innovation and more resource-efficient operations.



Article Title 3

IUH Student Ginger-Based Startup Reaches Over 5,000 Trial Customers and Wins Green Startup Awards in 2025

Article URL

https://iuh.edu.vn/vi/tin-tuc/gung-suoi-am-cua-sinh-vien-iuh-chinh-phuc-hon-5000-khach-hang-gianh-giai-nhi-khoi-nghiep-xanh-2025-2058.html

Activity description

In 2025, a student startup team at Industrial University of Ho Chi Minh City (IUH) developed Netgins, a ginger-based product initiative supported by university lecturers through applied experimentation and product refinement. The team, comprising three IUH students, conducted more than six months of product testing and market engagement, reaching over 5,000 trial customers. On 26 October 2025, Netgins received Second Prize in Category A at the 11th Green Startup Project Competition and First Prize in the Green Transition–Green Economy Innovation Competition. Beyond ginger syrup, the project explored the use of ginger peels and processing residues to develop additional products, applying circular economy principles to agricultural by-products. Through technical guidance, formulation trials and product development, IUH supported student entrepreneurship, resource recovery and the creation of value-added products from agricultural materials.

Industrial University of Ho Chi Minh City

NHÓM 7.5 – Low carbon energy use

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.5.1 Use of energy from low-carbon sources and renewable energy

Sử dụng năng lượng từ nguồn carbon thấp và năng lượng tái tạo

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Building a green campus; Developing renewable energy on campus	Operate and continuously monitor the Rooftop Solar power systems (Solar Rooftop) in Buildings B and V, connected to the grid to directly serve teaching and research activities.	Technical dossier of the solar power system; Logs/data on solar electricity generated for self-consumption in 2025 (converted to GJ)	Office of Facilities Administration, Specialised Faculties/Institutes	Q1–Q4 2025
Thrust 1 & Thrust 5: Data Governance & Financial Autonomy	Standardising University-wide data; Quantitative statistics on clean energy according to THE standards	Prepare a standardised data extraction table: Total energy used (GJ) and Total energy from low-carbon sources (GJ) for 2025, and calculate the percentage of clean energy achieved.	2025 low-carbon energy statistics report approved by the Board of Rectors; Technical data reconciliation table for submission to the THE portal	Office of Testing and Quality Assurance, Office of Facilities Administration, Specialised Faculties/Institutes	Q2–Q4 2025

Industrial University of Ho Chi Minh City

NHÓM 7.5 – Low carbon energy use

SDG 07 AFFORDABLE AND CLEAN ENERGY

7.5.1 Use of energy from low-carbon sources and renewable energy

Sử dụng năng lượng từ nguồn carbon thấp và năng lượng tái tạo

DỮ LIỆU CẦN THU THẬP

Dữ liệu	Giá trị
Total energy used Tổng năng lượng sử dụng năm .	40,679 GJ
Total energy used from low-carbon sources Tổng năng lượng sử dụng từ các nguồn carbon thấp năm	37,759 GJ

EVIDENCE OF ACTIVITIES

Evidence title	Evidence URL
Báo cáo tổng hợp năng lượng sử dụng và năng lượng carbon thấp tại IUH năm 2025	https://tqa.iuh.edu.vn/sdgs-article-2/iuh-tong-hop-du-lieu-su-dung-nang-luong-va-nang-luong-carbon-thap-nam-2025/

Industrial University of Ho Chi Minh City

IMPLEMENTATION RESULTS

SDG 07 AFFORDABLE AND CLEAN ENERGY

OPERATIONAL EXECUTION IN VERIFIED DATA YEAR 2024–2025

Comprehensive Audit of Implemented Actions Across All 14 Evaluation Indicators of SDG 7

1. CAMPUS ENERGY EFFICIENCY & NET-ZERO (7.2)

- **Building Renovation & Upgrades (7.2.1 & 7.2.2):**
- 100% LED T8 20W tubes installed across Buildings A, B, C, F, X; Inverter air conditioning prioritized.
- QCVN 09:2017/BXD energy efficiency standards applied to >80% renovated floor area.

- **Carbon Management & Net-Zero 2050 (7.2.3):**
- Greenhouse gas inventory procedure enacted under ISO 14064-1:2018 & Decree 06/2022/NĐ-CP (Scope 1 & 2).
- Public institutional Net-Zero commitment declared on Nov 25, 2025.

- **Energy Audits & Responsible Divestment (7.2.4-7.2.6):**
- Energy audit (April 2024) recommended COP ~2.9 ACs and IE3 motors; 5S guidelines enforce AC ≥ 26°C.
- ESG Divestment Policy formally excludes investments in coal and fossil fuel energy sectors.

2. ENERGY USE DENSITY & CLEAN ENERGY (7.3, 7.5)

- **Audited Energy Use Density (Metric 7.3.1 - 17%):**
- Total energy used (THE 2027): 40,679 GJ.
- University floor space (THE 2027): 215,936 m².
- Energy use density: 0.1884 GJ/m²/year (40,679 GJ / 215,936 m²).

- **Low-Carbon & Renewable Energy (Metric 7.5.1 - 10%):**
- Total energy used across all operations: 40,679 GJ.
- Energy used from low-carbon sources (THE 2027): 37,759 GJ.
- Proportion of low-carbon energy achieved: 92.82% of total campus energy demand.

3. COMMUNITY OUTREACH & INDUSTRY PARTNERSHIPS (7.4)

- **Community Outreach & Public Education (7.4.1 & 7.4.2):**
- International workshops with Prof. Sivanappan Kumar on Energy Transition & Sustainable Cooling.
- Taiwan–Vietnam clean energy symposium (National Ilan Univ & Giant Energy); National energy efficiency quiz.

- **Industry Services & Policy Development (7.4.3 & 7.4.4):**
- Strategic partnership with EVNPECC4 on renewable grid integration; International Hydrogen Roadmap Conference.
- Handover of Chint Vietnam energy equipment (>VND 1.13B) and Panasonic HVAC Solution Center V6.01.

- **Low-Carbon Innovation & Startups (7.4.5):**
- InnoGreenLife Season 5 supported >70 clean tech projects; Netgins startup won National Green Startup prizes.

Industrial University of Ho Chi Minh City

PERFORMANCE BENCHMARKING

SDG 07 AFFORDABLE AND CLEAN ENERGY

Benchmarking Results Against THE Impact Ratings 2026 and Strategic Evolution for the 2027 Cycle

Indicator Category	Previous Cycle (THE 2026)	Current Audit (THE 2027)	Strategic Evolution & Outlook
Metric 7.2 Campus Measures (23% Weight)	Energy audit and GHG procedures lacked formal ISO 14064 certification and Net-Zero baseline.	Standardized GHG inventory under ISO 14064-1 & Decree 06; Net-Zero 2050 pledge; Panasonic HVAC Lab.	Score Maximization: Full compliance across all 6 sub-indicators with verifiable audit trails.
Metric 7.3 Energy Use Density (17% Weight)	Grid electricity and built floor area datasets lacked trilateral reconciliation across campuses.	THE 2027: 40,679 GJ over 215,936 m^2 floor space; energy density of 0.1884 GJ/m^2/year.	Performance Monitoring: Establishes an updated energy-density baseline for monitoring campus efficiency and prioritizing building improvements.
Metric 7.4 Community & Industry (23% Weight)	Outreach focused mainly on academic seminars; industrial consultancy was not fully packaged.	Extensive corporate network: EVNPECC4, Chint (>VND 1.13B), Panasonic, Hydrogen Conference, InnoGreenLife.	Outstanding Uplift: Direct industrial tech transfer, DPPA policy input, and green venture incubation.
Metric 7.5 Low-Carbon Energy (10% Weight)	Rooftop solar generation was monitored on local meters without consolidated annual GJ conversion.	THE 2027: 37,759 GJ from low-carbon sources (92.82% of 40,679 GJ total energy used).	Low-Carbon Transition: Provides an updated baseline for tracking the energy mix and assessing opportunities for renewable energy expansion.

Industrial University of Ho Chi Minh City

STRATEGIC PLAN FOR THE COMING YEAR

SDG 07 AFFORDABLE AND CLEAN ENERGY

Four High-Impact Action Pillars to Propel SDG 7 into the Global Top 100–200 Band

1. INSTITUTIONALIZING NET-ZERO ROADMAP & ISO 50001

- Enact the Presidential Regulation: 'Master Energy Transition & Carbon Neutrality Plan 2026–2030'.
- Formally establish and certify the Energy Management System compliant with TCVN ISO 50001:2021.
- Incorporate a mandatory 5% annual electricity reduction quota into departmental KPI performance contracts.
- Maintain strict compliance with the ESG Divestment Policy excluding fossil fuel and coal-fired energy financing.

2. SCALING ROOFTOP SOLAR (PHASE 2) & SMART EV CHARGING

- Commission Phase 2 rooftop solar installations (adding 150–200 kW) across Buildings A, E, and Dormitories.
- Elevate on-site renewable electricity generation to surpass 5% of total university energy demand by 2027.
- Pilot solar-powered smart EV charging stations across campus parking areas to promote green commuting.
- Deploy IoT-based smart sensors automatically turning off HVAC and lighting when lecture halls are vacant.

3. REAL-TIME DIGITAL MONITORING & 'IUH ENERGY HUB'

- Deploy the dedicated bilingual portal 'IUH Clean Energy & Net-Zero Hub' on tqa.iuh.edu.vn.
- Package 100% of SDG 7 evidence as self-contained articles embedding audit ledgers, MOUs, and photos.
- Establish an institutional Real-Time Smart Energy Dashboard tracking substation loads and PV generation.
- Automate the annual calculation of energy use density (7.3.1) and low-carbon ratios directly via ERP.

4. INDUSTRIAL AUDITING & STRATEGIC HYDROGEN RESEARCH

- Mobilize faculty experts from Electrical and Thermal Engineering to deliver fee-based energy audits for factories.
- Deepen trilateral cooperation with EVNPECC4, Chint, and Panasonic on renewable grid integration and smart HVAC.
- Accelerate scientific research on green hydrogen production, fuel cells, and microgrids targeting Scopus Q1/Q2.
- Actively contribute technical advisory papers to MOIT and DOIT on DPPA mechanisms and national power planning.