MINISTRY OF INDUSTRY AND TRADE
INDUSTRIAL UNIVERISTY OF HO CHI MINH CITY

Socialist Republic of Vietnam
Independence – Freedom – Happiness

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Summary of SGD 7 in 2025

SDG 7: Affordable and Clean Energy Report for Industrial University of Ho Chi Minh City (IUH) – THE Impact Rankings

This report details the Industrial University of Ho Chi Minh City's (IUH) contributions to SDG 7: Affordable and Clean Energy, focusing on initiatives under Indicators 7.2 (University Measures for Affordable Clean Energy), 7.3 (Energy Density), and 7.4 (Energy and Community Engagement). IUH's efforts demonstrate a strong commitment to advancing clean energy, enhancing energy efficiency, and engaging communities in sustainable practices, significantly contributing to Vietnam's energy transition and global sustainability goals.

- **Indicator 7.2: University Measures for Affordable Clean Energy**

IUH has implemented comprehensive measures to integrate energy efficiency and clean energy practices across its campus operations, emphasizing sustainable infrastructure and environmental responsibility.

Energy-Saving Building Renovations (7.2.1)

IUH ensures that all new constructions and renovations adhere to stringent energy efficiency standards. Since 2015, the university has prioritized energy conservation programs, including the installation of solar power systems across its facilities. These initiatives reduce reliance on fossil fuels and lower operational costs, setting a model for sustainable campus development in Vietnam's higher education sector.

Upgrading Buildings for Higher Energy Efficiency (7.2.2)

IUH actively upgrades at least one building annually to enhance energy efficiency. Upgrades include installing LED lighting, improving insulation, and incorporating motion-sensor lighting. The university is also planning to implement smart campus technologies and intelligent building management systems, which optimize energy use through automation and real-time monitoring, reinforcing IUH's leadership in green infrastructure.

Carbon Reduction and Emission Control (7.2.3)

IUH conducts annual CO_2 emission inventories to track and manage its carbon footprint. Initiatives to reduce emissions include optimizing municipal solid waste transportation, expanding solar panel installations, and providing enterprise training on greenhouse gas management. These efforts contribute to Vietnam's climate goals by minimizing environmental impact and promoting sustainable waste and energy practices.

Energy Consumption Reduction Plans (7.2.4)

IUH has a medium-term (3–5 year) plan to reduce per-capita electricity consumption. By adopting lean and automated processes, the university maximizes utility efficiency and reduces costs. This strategic approach ensures long-term sustainability while maintaining high operational standards, benefiting both the institution and the environment.

Identifying Energy Waste (7.2.5)

IUH conducts periodic internal energy audits every 1–2 years, producing detailed reports with improvement proposals. The university applies the 5S methodology (Sort, Set in order, Shine, Standardize, Sustain) to minimize energy waste and protect the environment. These audits drive continuous improvement, ensuring resources are used efficiently across campus operations.

Divestment Policy (7.2.6)

IUH has adopted a formal policy to avoid investments in high-carbon sectors such as coal and oil, prioritizing funds for sustainable development. This commitment aligns with global efforts to transition to low-carbon economies and underscores IUH's role as a responsible steward of financial and environmental resources.

The significance of these measures lies in their holistic approach to campus sustainability. By embedding energy efficiency into infrastructure, operations, and investment decisions, IUH not only reduces its environmental footprint but also sets a precedent for other institutions, contributing to Vietnam's national energy efficiency targets and global SDG 7 objectives.

- **Indicator 7.3: Energy Density**

IUH actively monitors and optimizes its energy use to achieve greater efficiency across its campus.

Energy Use per Square Meter (7.3.1)

IUH tracks total energy consumption and campus floor space annually to measure energy use per square meter. This data-driven approach enables the university to identify

inefficiencies and implement targeted improvements. By prioritizing reductions in energy density, IUH contributes to sustainable resource management, ensuring that its facilities operate with minimal environmental impact. This initiative is significant as it supports scalable energy efficiency practices, aligning with Vietnam's push for greener urban and institutional development.

- **Indicator 7.4: Energy and Community Engagement**

IUH engages local and global communities through workshops, renewable energy projects, industry services, policy collaboration, and innovation support, amplifying the impact of clean energy initiatives.

Local Community Engagement on Energy Efficiency (7.4.1)

IUH organizes workshops, events, and campaigns to promote clean and efficient energy use. The university offers training programs for businesses on greenhouse gas inventories and climate change adaptation, equipping local enterprises with tools to adopt sustainable practices. These initiatives are significant as they extend IUH's expertise beyond the campus, fostering community-wide awareness and action toward energy efficiency and climate resilience.

Commitment to Renewable Energy (7.4.2)

IUH has a medium-term (5–10 year) plan to transition specific campus areas, such as lighting, to 50–100% renewable energy, primarily through solar power. Students are actively involved in innovative projects, such as generating electricity from footsteps, which demonstrate creative approaches to renewable energy. These efforts are significant for showcasing practical renewable energy applications, inspiring both students and the broader community to embrace clean energy solutions.

Energy-Saving Services for Industry (7.4.3)

IUH provides consulting, training, and research services to local businesses on renewable energy and energy efficiency. Notable activities include research on energy efficiency in industrial wastewater treatment and participation in international exhibitions and competitions promoting green technology. These services are significant as they bridge academia and industry, driving the adoption of sustainable technologies and supporting Vietnam's industrial sector in achieving energy efficiency goals.

Clean Energy Technology Policy Support (7.4.4)

IUH collaborates with local, regional, national, and international authorities and NGOs to support clean energy policy development. Key activities include the BIORIST Project, international research on wastewater treatment, and postgraduate courses on Green Energy. These collaborations are significant for influencing policy frameworks that promote renewable energy adoption and sustainable practices at multiple scales, enhancing Vietnam's position in global clean energy efforts.

Supporting Low-Carbon Innovation (7.4.5)

IUH supports student and startup initiatives focused on renewable energy and low-carbon technologies. The university hosts the Young Scientists Conference and the Innogreen Life Competition, which encourage innovative solutions in green technology. Research on low-carbon transportation systems further demonstrates IUH's commitment to sustainable innovation. These initiatives are significant as they nurture the next generation of clean energy leaders, fostering entrepreneurship and practical solutions to energy challenges.

The community engagement efforts under Indicator 7.4 highlight IUH's role as a catalyst for sustainable development. By training businesses, supporting policy, and fostering innovation, IUH extends its impact beyond academia, contributing to regional and national efforts to achieve affordable and clean energy.

Plan to Expand IUH's Contributions to SDG 7: Affordable and Clean Energy period 2026 - 2023

To build on the Industrial University of Ho Chi Minh City's (IUH) impressive contributions to SDG 7 in 2025, as detailed in the provided report, the following paragraphs outline six innovative ideas for 2026 - 2030. These proposals aim to scale up existing efforts, introduce cutting-edge projects, and deepen community and industry engagement, further aligning IUH with Vietnam's energy transition goals and global sustainability objectives under the Times Higher Education (THE) Impact Rankings.

Expanding solar energy infrastructure and campus-wide renewable energy adoption will be a cornerstone of IUH's 2026 plan. To advance its medium-term goal of achieving 50–100% renewable energy in specific campus areas, such as lighting, IUH will install additional solar panels on at least two high-energy-use buildings, such as lecture halls or laboratories. A pilot solar-powered microgrid will be established in a designated campus area to demonstrate scalable renewable energy solutions and provide students with hands-on learning opportunities. Additionally, a "Solar Campus Challenge" will engage student teams to propose innovative ways to integrate solar energy into campus operations, with winning ideas slated for implementation in 2027. This initiative is significant as it reduces

IUH's carbon footprint, lowers energy costs, and serves as a visible model of renewable energy adoption, inspiring other institutions and communities to embrace clean energy solutions.

To strengthen community engagement on energy efficiency, IUH will launch a comprehensive community-based education program in 2026. A quarterly "Clean Energy Community Workshop Series" will be organized in Ho Chi Minh City and surrounding areas, targeting households, small businesses, and schools with practical guidance on energy-saving techniques, solar panel installation, and low-cost energy-efficient appliances. In partnership with local NGOs and government agencies, IUH will distribute energy-saving kits, such as LED bulbs and smart power strips, during workshops to encourage immediate adoption. A free, IUH-branded mobile app or online platform will also be developed, offering energy efficiency tips, case studies, and tutorials to the public. This program will amplify IUH's role as a community educator, empowering residents and businesses to reduce energy consumption and adopt sustainable practices, thereby contributing to regional energy efficiency goals.

Establishing a Clean Energy Innovation Hub will enhance IUH's support for low-carbon innovation in 2026. This dedicated space will be equipped with prototyping tools, simulation software, and access to the Smart Grid Laboratory, enabling students, startups, and researchers to develop renewable energy and energy efficiency solutions. An annual "Clean Energy Hackathon" will encourage participants to design innovations like energy-efficient devices, low-carbon transportation systems, or smart grid applications, with seed funding provided for top projects. Partnerships with industry leaders, such as ABB and LS Electric Vietnam, will offer mentorship and pathways to commercialize innovations. This hub will position IUH as a leader in clean energy research and development, fostering entrepreneurship and nurturing the next generation of sustainable technology leaders.

IUH will also introduce a Green Energy Certificate Program for industry professionals in 2026 to expand its energy-saving services for industry. This program will offer short-term courses (3–6 months) covering renewable energy integration, energy auditing, and greenhouse gas management, with both online and in-person components tailored to industry needs through collaboration with the Ministry of Industry and Trade and enterprises. Scholarships or subsidized fees will be provided for small and medium-sized enterprises to increase participation. By equipping professionals with skills to drive Vietnam's energy transition, this initiative will strengthen IUH's role as a bridge between academia and industry, supporting sustainable industrial growth and advancing energy efficiency goals.

To deepen its clean energy technology policy support, IUH will host an annual "Vietnam Clean Energy Summit" in 2026, bringing together government officials, industry leaders, NGOs, and academics to discuss policies for renewable energy adoption, energy efficiency, and low-carbon technologies. The university will expand the BIORIST Project and international wastewater treatment research by establishing a dedicated research group to provide policy recommendations to local and national authorities. Policy-focused modules will also be integrated into IUH's postgraduate Green Energy courses, encouraging students to propose actionable policy solutions. These efforts will influence clean energy frameworks at multiple scales, enhancing Vietnam's position in global sustainability efforts and amplifying IUH's impact on policy development.

Finally, IUH will introduce a campus-wide energy monitoring and engagement campaign in 2026 to build on its energy density tracking and consumption reduction efforts. Smart energy meters will be installed across all campus buildings, providing real-time data on energy use per square meter via a public dashboard on the IUH website. A "Green Campus Challenge" campaign will encourage students, faculty, and staff to compete in reducing energy consumption through actions like turning off unused lights and optimizing appliance use, with top-performing departments or student groups recognized at the annual Young Scientists Conference or awarded funding for sustainability projects. This campaign will foster a culture of sustainability, enhance campus-wide awareness of energy efficiency, and provide actionable data to further reduce energy density, aligning with IUH's commitment to sustainable resource management.

These six initiatives for 2026 will significantly expand IUH's contributions to SDG 7 by enhancing renewable energy infrastructure, empowering communities, fostering innovation, and influencing policy. By implementing these ideas, IUH will solidify its leadership in advancing affordable and clean energy, contributing to Vietnam's energy transition and global sustainability goals while strengthening its standing in the THE Impact Rankings.

Conclusion

The Industrial University of Ho Chi Minh City is making significant strides toward SDG 7 through a multifaceted approach that integrates energy-efficient infrastructure, data-driven energy management, and robust community engagement. From solar-powered renovations and smart campus technologies to industry training and student-led renewable energy projects, IUH's initiatives demonstrate a deep commitment to affordable and clean energy. These efforts not only reduce the university's environmental impact but also empower communities, industries, and policymakers to adopt sustainable energy practices,

aligning with Vietnam's energy transition goals and global SDG 7 objectives. IUH's leadership in this area positions it as a key contributor to a cleaner, more sustainable future.