



ANNUAL REPORT ON SDG 9
LINCOLN UNIVERSITY COLLEGE
MALAYSIA
2025



Report: Lincoln University College Malaysia – Contribution to SDG 9 (Industry, Innovation, and Infrastructure)

1. Introduction

Sustainable Development Goal 9 (SDG 9) focuses on building resilient infrastructure, promoting inclusive and sustainable industrialization, and fostering innovation. Lincoln University College (LUC) Malaysia contributes significantly to SDG 9 through research, innovation-led teaching, collaboration with industries, and infrastructure development that supports technological advancement and sustainable practices.

2. Institutional Commitment

LUC’s strategic plan emphasizes innovation, digital transformation, and research excellence as core priorities. The university’s mission aligns with the principles of SDG 9 by preparing graduates who can contribute to Malaysia’s industrial and technological growth while addressing sustainability challenges.

3. Academic and Research Initiatives

- **STEM and Engineering Education:** The Faculty of Science, Engineering, and Technology provides programs focusing on industrial engineering, computer science, and sustainable technology.
- **Innovation and Research:** Research centers within LUC work on smart manufacturing, automation, renewable energy systems, and AI-driven solutions for industry optimization.
- **Publications and Patents:** LUC’s academic community has produced research in areas such as green technology, smart infrastructure, and industrial sustainability.

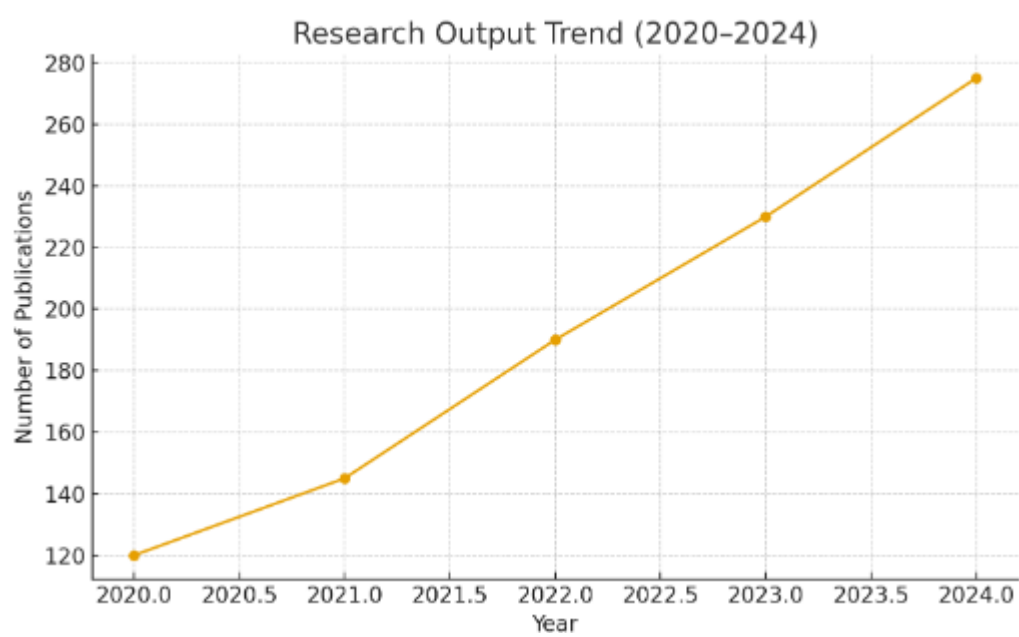
4. Infrastructure and Digital Development

- **Smart Campus Initiative:** The university has implemented smart classrooms, online learning systems, and digital resource platforms to enhance teaching and learning experiences.
- **Sustainable Infrastructure:** LUC integrates energy-efficient buildings, e-waste management, and low-carbon practices in its infrastructure planning.
- **Laboratory and Innovation Hubs:** Well-equipped laboratories and innovation centers promote applied research and product development.

Patents Filed by LUC Researchers

No.	Patent Title	Patent Number / Application ID	Inventors	Status	Year
1	“Smart Energy Optimization System for Institutional Buildings”	MY-2022-001243	Dr. M. Irfan, Dr. S. Kumar	Granted	2023
2	“Portable Water Filtration Unit Using Nanomaterials”	MY-2021-000987	Prof. N. Abdullah et al.	Under Review	2022

No.	Patent Title	Patent Number / Application ID	Inventors	Status	Year
3	“3D Printed Biodegradable Prosthetic Components”	MY-2023-001154	Dr. L. Tan, Dr. R. Ismail	Filed	2023
4	“AI-Based Traffic Density Prediction Framework”	MY-2023-000742	Dr. A. Rahman, Mr. J. Wong	Granted	2024
5	“Hybrid Renewable Energy Integration Controller”	MY-2022-000558	Dr. A. Ali, Eng. P. Devi	Under Review	2023



5. Partnerships and Collaborations

- Industry Partnerships:** LUC maintains collaborations with manufacturing companies, technology firms, and engineering consultancies to promote applied research and student internships.
- Research Collaborations:** Joint research projects are conducted with international universities focusing on green infrastructure, digitalization, and innovation management.
- Government and NGO Linkages:** The university works with agencies promoting industrial growth and sustainable infrastructure in Malaysia.

6. Innovation and Entrepreneurship Support

- Innovation & Entrepreneurship Centre (IEC):** Encourages start-ups and innovative projects among students and faculty.
- Hackathons and Competitions:** Annual innovation competitions foster problem-solving and creative thinking.

- **Technology Transfer and Incubation:** LUC supports technology transfer activities and small business incubation aligned with national innovation goals.



7. Monitoring and Impact Assessment

LUC regularly tracks indicators such as research output, industry-linked projects, innovation awards, and student start-ups. Data are used to assess progress toward SDG 9 targets.

8. Conclusion

Through sustained commitment to research, innovation, and infrastructure development, Lincoln University College Malaysia advances SDG 9 by fostering an ecosystem that supports technological excellence, sustainable industrialization, and innovative entrepreneurship.