



Engineering Education
for a Sustainable Future

Newsletter Issue #1

Kick-Off and WP2 Progress



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Welcome to the EESF Project!

The Engineering Education for a Sustainable Future (EESF) initiative is a collaborative European project aimed at transforming engineering education to address global sustainability challenges. This newsletter highlights our project's successful launch and progress under Work Package 2 (WP2).



Education is the most powerful weapon which you can use to change the world.

Nelson Mandela

Project Kick-Off

Setting the Stage

In February 2024, the EESF project kicked off with a dynamic two-day workshop hosted by Atlantic Technological University (ATU) in Letterkenny, Ireland. Representatives from all project partners joined to:

- Discuss project goals and deliverables.
- Develop a detailed work plan for WP2: Discovery and Research.
- Share insights into embedding Sustainable Development Goals (SDGs) into engineering education.

A standout moment was a keynote by an ATU sustainability expert, inspiring discussions on advancing sustainability across education and industry.



Progress Update

WP2 Discovery and Research

WP2 focuses on understanding current practices and identifying opportunities to integrate sustainability competences into engineering education. Here's a glimpse into our progress:

1. Literature Review

The extensive literature review, conducted collaboratively by HEI partners, highlighted:

- **Challenges** in embedding SDGs, such as inconsistent frameworks and resource limitations.
- The critical role of HEIs in producing engineers capable of addressing SDG priorities, including clean energy, sustainable infrastructure, and urban development.
- Best practices for integrating SDGs into curricula and campus operations.

2. Discovery Report

Led by **Institut Mines-Télécom Business School (IMTBS)**, this report:

- Maps the current integration of sustainability into

engineering programmes.

- Identifies gaps between industry needs and educational practices.
- Recommends innovative approaches to instill sustainability mindsets and skills in students.

3. Embedding Sustainability

Competences Research Report

Developed by **Wind Energy Ireland**, this report focuses on:

- Strategies to align engineering education with sustainability frameworks like the SDGs and European Green Deal.
- Input from 53 stakeholders, including HEI faculty, leadership, and industry experts, to highlight effective practices and barriers.

4. Peer Review Stage

Both reports are currently undergoing peer review by over 10 HEI staff members, ensuring a rigorous and comprehensive approach to embedding sustainability competences.

DEFINE SUCCES ON YOUR OWN

TERMS, ACHIEVE IT BY YOUR

OWN RULES, AND BUILD A

LIFE YOU'RE PROUD TO LIVE

What's Next?

- Final publication of the Discovery and Research reports.
- Development of Open Educational Resources (OERs) based on WP2 findings.
- Launch of WP3: Teaching and Learning, focusing on innovative pedagogical tools.

Spotlight

Why Sustainability in Engineering Matters

From clean water systems to renewable energy, engineers play a pivotal role in addressing global challenges. By equipping future engineers with sustainability competences, the EESF project aims to create a workforce capable of designing innovative, sustainable solutions that meet societal and environmental needs.



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