



Capacity Building in Morocco

Developing skills for Africa's decentralized energy future





In partnership with the RES4Africa Foundation, Engreen was appointed to design and deliver the Technical and Vocational School on Decentralized Renewable Energy (DRE) Solutions in Morocco, hosted by the Mohammed VI Polytechnic University.

The initiative strengthens Africa's human capital for the energy transition by training technicians and engineers to design, operate, and maintain decentralized renewable energy systems adapted to rural and peri-urban contexts.

Building on a collaboration with RES4Africa that began in 2019, Engreen was tasked with revising and updating the Micro-Grid Academy curriculum, ensuring alignment with the latest technological innovations, business models, and policy frameworks shaping the African DRE market.

Challenges

- Outdated curricula not reflecting advances in hybrid and grid-interactive systems
- Uneven training quality and lack of standardization across African institutions
- Limited hands-on experience linking theory with real-world DRE applications
- Need for inclusive approaches that expand access for youth and women





Solution - Engreen's Role in Capacity Building

Through its Capacity Building Unit, Engreen applied the Engreen 360 model to integrate curriculum innovation, practical training, and institutional partnerships.

Curriculum innovation

- Updated the Micro-Grid Academy curriculum into a modular, market-ready format
- Partnered with RES4Africa, IRESEN, UM6P, and IAV Hassan II for localized delivery

Training delivery

- Revised and delivered core modules on engineering, O&M, and project finance
- Added new components on e-mobility, clean cooking, and energy for emergencies

Institutional capacity

- Implemented Training-of-Trainers and regional sessions for young professionals
- Embedded entrepreneurship, gender inclusion, and sustainability principles throughout

Results

- A comprehensive DRE curriculum aligned with regional market requirements and international standards
- 20 days of hands-on training delivered in Morocco through lectures, simulations, and field exercises
- Dozens of young African professionals equipped to design, finance, and manage decentralized systems
- Institutional collaboration reinforced among RES4Africa, Engreen, and Moroccan research centers
- A replicable training model ready to be scaled across African regions



Engreen - from vision to impact

At Engreen, every project begins with a vision – and becomes reality through a complete, integrated process.

Engreen 360 is our signature approach: a model that connects strategy, technology, and people to ensure that each step of the sustainability journey delivers measurable impact.

We manage the entire lifecycle of an energy project, combining strategic foresight with hands-on execution and long-term capacity building.

Our multidisciplinary team translates complex challenges into coherent, scalable solutions – guiding partners from early planning to full operational maturity.

Strategy – We assess needs, map opportunities, and define the most effective roadmap for sustainable growth.

Design – We turn ideas into detailed technical, financial, and environmental blueprints, tailored to local contexts.

Implementation – We build, supervise, and ensure quality through every phase, bridging design and reality.

Operation – We monitor, optimise, and maintain systems for reliability and performance over time.

Training – We empower local teams with the knowledge, tools, and confidence to operate autonomously.

This 360° approach allows Engreen to act as one integrated partner, capable of connecting innovation, engineering, and community value – ensuring that sustainability is not only designed but lived, maintained, and multiplied.

Partner with us to turn strategy into action

www.engreen.world | info@engreen.world