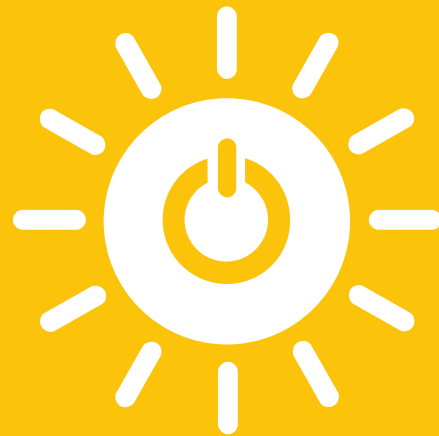


# 7 AFFORDABLE AND CLEAN ENERGY



# CLEAN ENERGY INNOVATION

Paving the Way for a **Brighter Tomorrow**

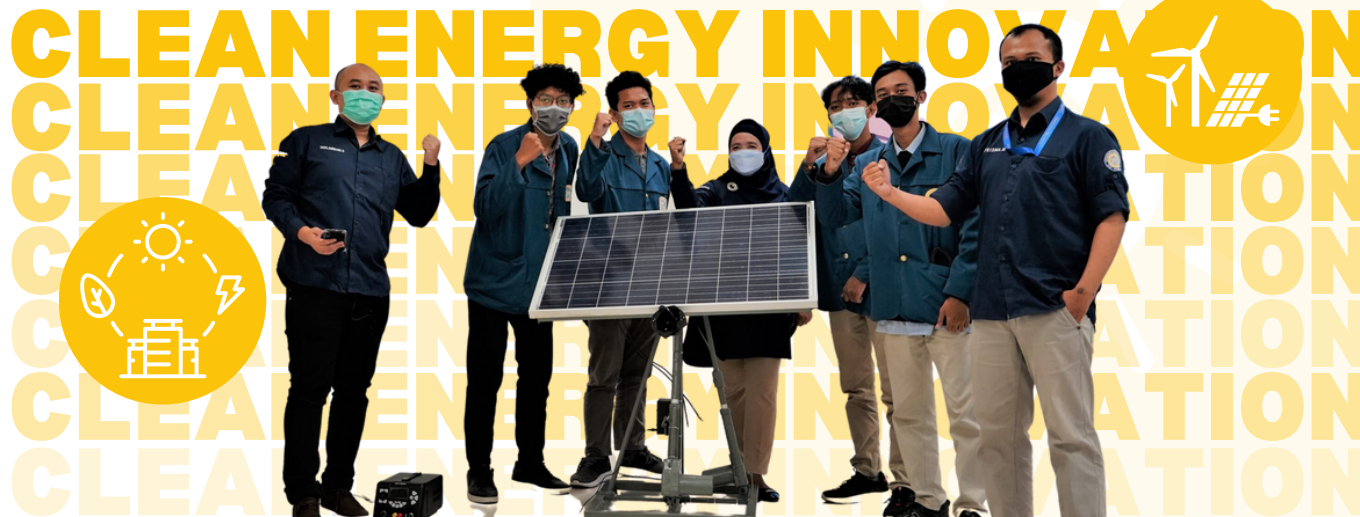
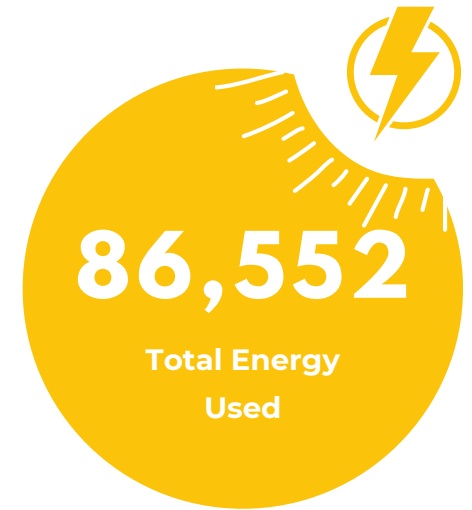
## The Collaboration between FTMM and RSTKA

UNAIR stands at the forefront of championing innovative clean energy solutions, marking a significant stride towards a sustainable future. The successful partnership between UNAIR's Faculty of Advanced and Multidisciplinary Technology (FTMM) and Ksatria Airlangga Floating Hospital (RSTKA) embodies the institution's commitment to renewable energy.

Gili Lyan Island is recognised for its potential for renewable energy sources. Comprehensive research by the FTMM team has unlocked these potentials, for clean energy production.

## Solar Hydroponic Technology

FTMM UNAIR also pioneered the implementation of solar hydroponic technology. This innovation not only promises a reliable source of nutritious food but also epitomises clean energy through solar resources utilisation.



# LEADING THE CHARGE OF SUSTAINABLE FUTURE

## The Society of Renewable Energy UNAIR

The Society of Renewable Energy (SRE) UNAIR created a virtual industry tour entitled “Empowering Future: Exploring Renewable Energy Innovations.” This initiative aimed to deepen the understanding of the latest advanced renewable technologies, spotlighting the Nicuba and solar panel innovations. The nicuba device transforms water into fuel for motorcycles by leveraging the electrolysis method to separate hydrogen and oxygen. Concurrently, solar panels, available in both battery-operated (off-grid) and non-battery variants (on-grid), capture sunlight to produce electricity. A key advantage lies in their potential to significantly electricity consumption, for green energy solutions.

## Wind Power Plant Project

UNAIR is championing the Wind Power Plant (PLTB) project, with an iconic windmill design. This project seeks to cultivate a renewable energy alternative, mitigating be overusage on fossil fuels.

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