



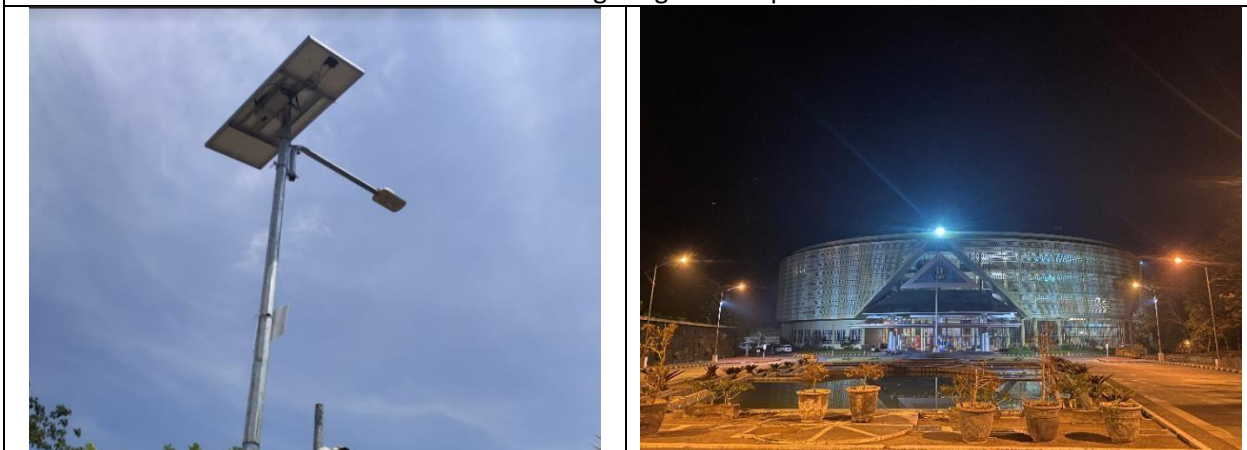
**Energy and Climate Change
Energy Efficient Appliances Usage**

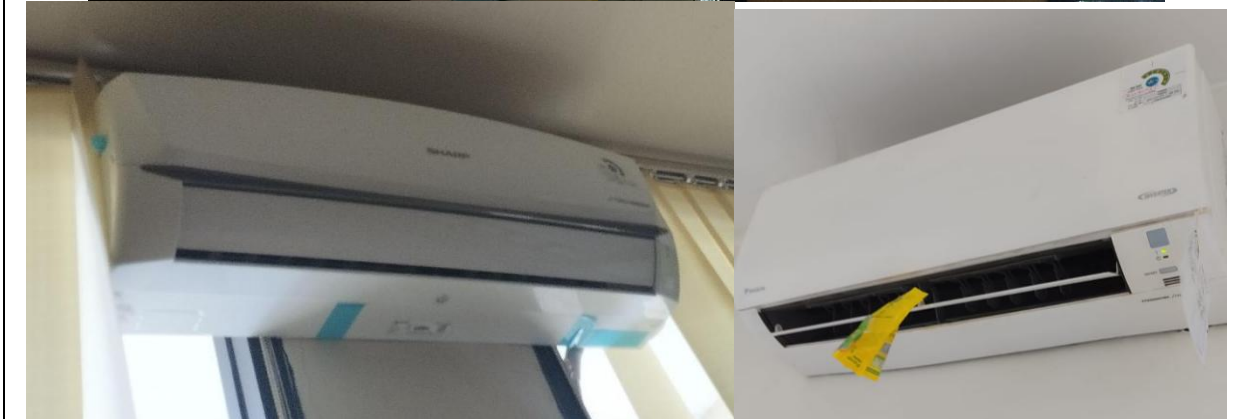
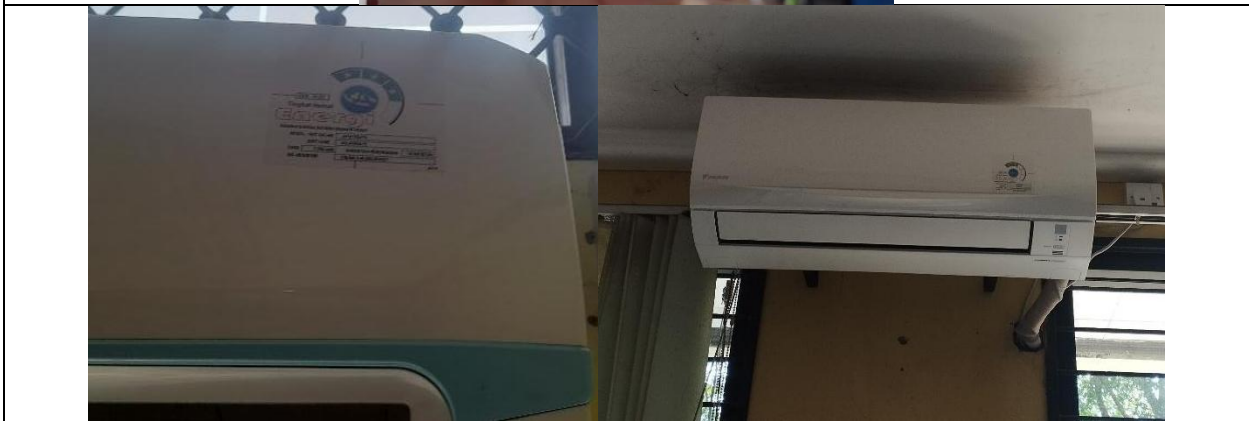


Energy Efficiency Awareness Campaign on campus.



Use of LED lighting and lamps.

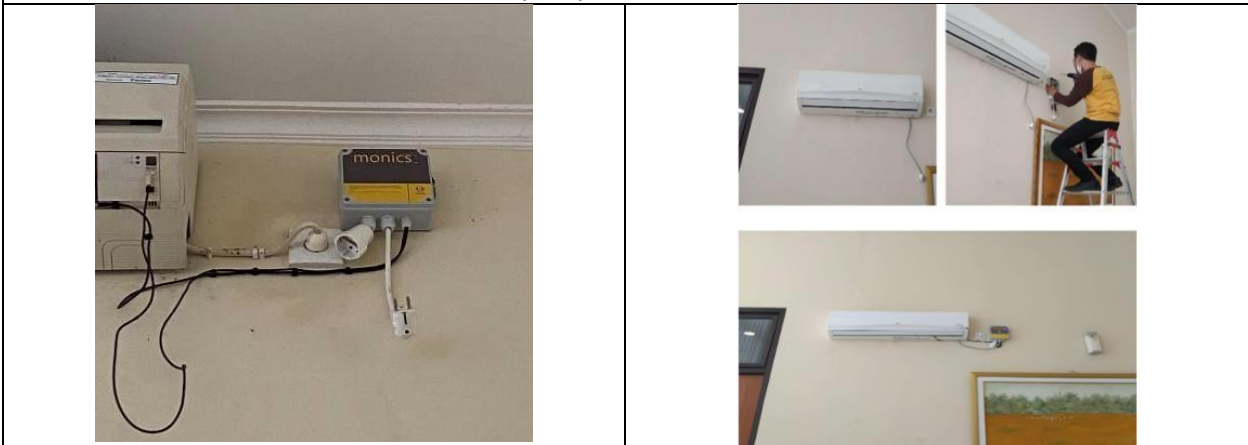




Energy-saving AC in the Faculty of Medicine, the Faculty of Agriculture, Faculty of Mathematics and Natural Sciences and PSDKU Pangandaran.



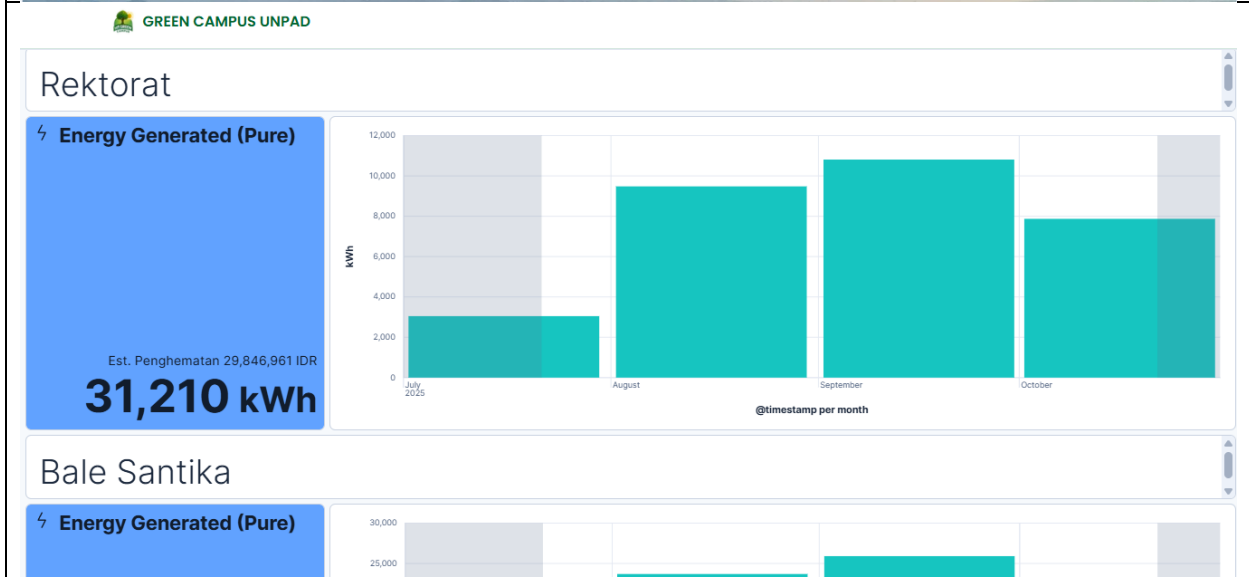
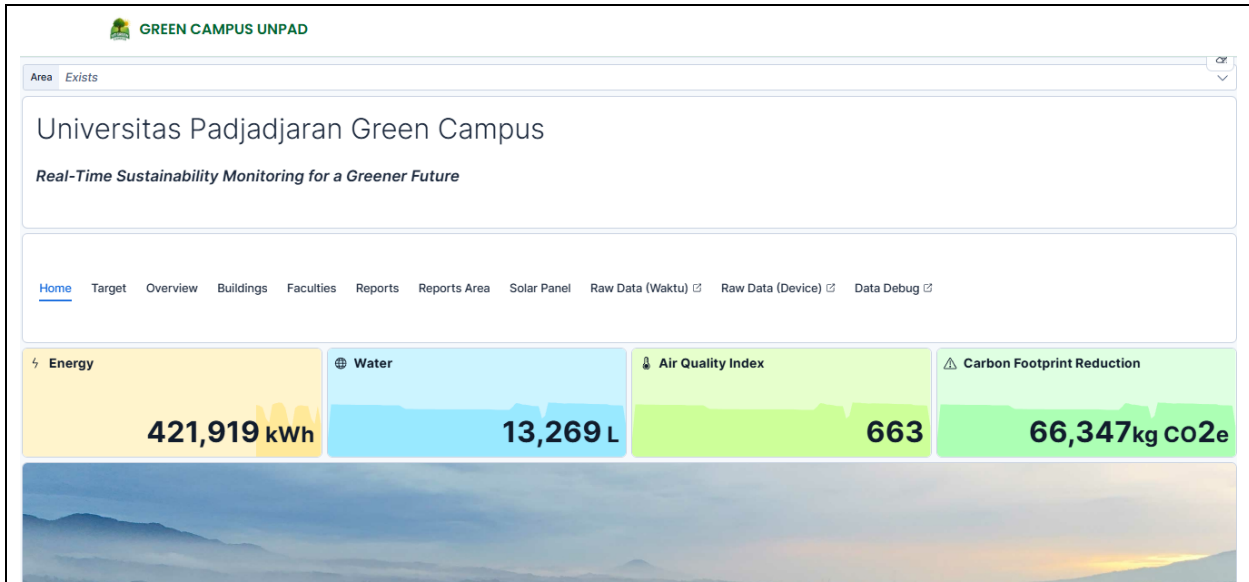
The use of ultimate efficiency air purification and ventilation (inverter AC).



The use of inverter ACs and IoT systems.



Energy monitoring.



IoT dashboard for monitoring.



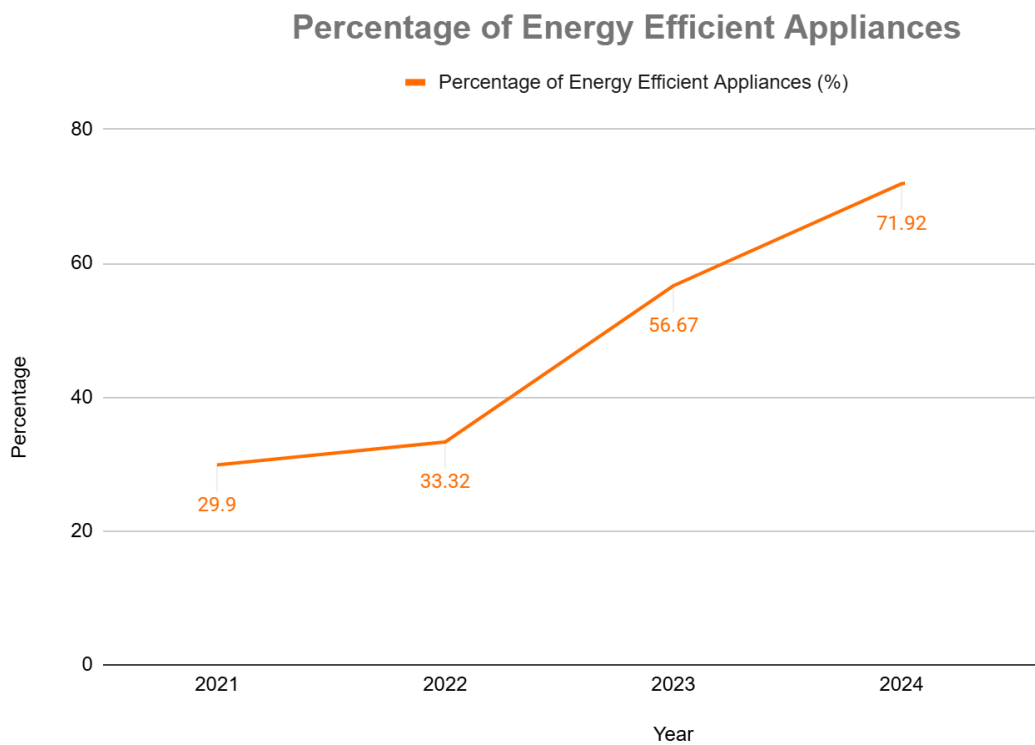
Energy Star-certified for electronics.



Description:

In 2024, Universitas Padjadjaran strengthened this initiative by replacing non-energy-efficient appliances with energy-saving alternatives, in accordance with the Rector’s Circular Letter on Energy Efficiency. This policy is a strategic step to accelerate the transition toward fully implementing energy-efficient systems across all university buildings.

Based on the University’s policy, replacing a conventional appliance with an energy-efficient appliance is carried out if the appliance breaks. Shifting to energy-efficient appliances will continue to be carried out for all existing appliances at Universitas Padjadjaran. As we can see in the graphic below, Universitas Padjadjaran keeps moving higher and consistently from 2021 to 2024.



Universitas Padjadjaran is committed to promoting sustainability and energy efficiency. This year, the university has launched a project to inventory and optimize data on energy use from its appliances. By tracking our appliances and their energy consumption, we aim to make better decisions that will reduce our environmental impact and lead to cost savings. This effort reflects our dedication to creating a greener, more energy-efficient campus and supporting a sustainable future for the university and the wider community.

Universitas Padjadjaran also uses monitoring energy tools to control lighting, AC, and the environment. This monitoring energy uses the Internet of Things (IoT) system. In general, IoT is a concept in which particular objects have the ability to transfer data over a network without human-to-human or human-to-computer interaction. This system uses the internet to control lighting, AC, and some environmental things (e.g., water). IoT will turn off the unused appliance (lighting or AC in an empty room) to save more energy. This IoT system is applied in some buildings, such as the Rectorate and PPBS. This IoT system is controlled by DPSI and can be monitored online on this website <https://iot.stg.unpad.ac.id/>.



Additional evidence links (i.e., videos, images, or other files that are not included in this file):

- **IoT Dashboard UNPAD**
<https://iot.stg.unpad.ac.id/>
- **Circular Letter of 2025 concerning Energy Conservation at Padjadjaran University**
https://drive.google.com/file/d/1_nuDjY-MFPka4Ygo5y40tw0BLAluHg7A/view?usp=sharing
- **Recapitulation Energy Efficient Appliances Usage**
<https://drive.google.com/file/d/1lz6GoxsixmBGUdQMumBpLOmTZ2RzJ4aD/view?usp=sharing>