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AFFORDABLE AND  
CLEAN ENERGY

## SDG 7: AFFORDABLE AND CLEAN ENERGY

### Energy Research

1. Hybrid Electric Drone:  
Reduces carbon emissions through hybrid propulsion systems
2. Wave Energy Converter:  
Harnesses renewable ocean wave energy
3. Bio-derived TENGs:  
Creates sustainable energy harvesters from natural materials
4. E-bike Efficiency:  
Improves electric vehicle energy recovery and usage



Multiple hydrogen projects  
focused on green/blue  
hydrogen production:

1. Atmospheric water to hydrogen
2. Wastewater to hydrogen
3. CO<sub>x</sub>-free hydrogen from fuel gas

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### Campus Energy

- Energy management
- On the occasion of Earth hour, we encouraged our community to switch off their lights for one hour from 8:30pm to 9:30pm on Instagram story and post • This activity on story reached 1709 accounts and had 7 engagements • This activity on post reached 4025 accounts and had 58 engagements
- Supply and installation of Energy monitoring system on both campuses
- Renewable adoption
- KU Logos replacement - Existing & new building (5 sets) with raw & Solar power
- Green buildings

### Industry Impact

- Energy partnerships
- Technology transfer

### Innovation project

- Supply & Installation of VPR system
- Supply and Installation of LED Strip Lights for Link Bridge in Main Campus (between E & G building 1st floor)