



Template for Evidence(s) UI GreenMetric Questionnaire

University : Samarra
Country : Iraq
Web Address : www.samarra.edu.iq

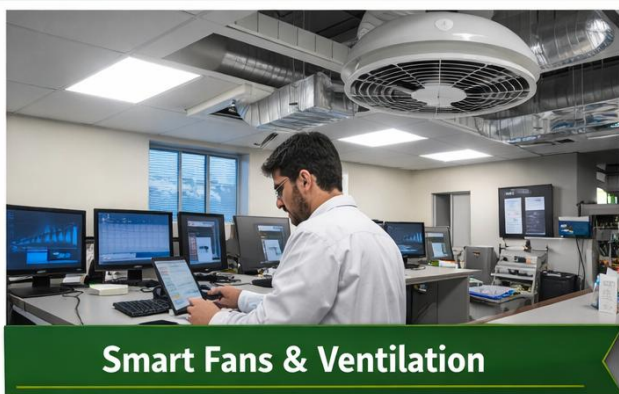
[2] Energy and Climate Change (EC) [2.1] Energy Efficient Appliances Usage (EC.1)



Solar Panels on Campus



LED Lighting in Classrooms



Smart Fans & Ventilation



Sustainability Week Event



Energy Efficient Appliances Usage: Use of LED lighting and lamps with light detection, Solar Panels, Smart Fans and Sustainability Event



Percentage of EEnergy Efficient Appliances Usage: (University of Samarra, Samarra, Iraq)

Description

The University of Samarra has adopted a comprehensive plan to transform into a sustainable campus. Traditional bulbs have been replaced with LED lighting in most classrooms and offices, reducing electricity consumption by up to 60%. Smart ventilation systems and energy-efficient fans have been installed in laboratories and offices, along with solar-assisted air conditioning units. Research teams at the Faculty of Engineering and Sciences are developing cooling systems based on Phase Change Materials (PCM) enhanced with nanomaterials, reflecting the university’s commitment to innovative energy-saving solutions. In addition, the university launched the “No Energy Waste Campus” program involving more than 2,000 students, aiming to reduce carbon emissions by 20% by 2030. Solar panels with a capacity of 500 kW have been installed to supply several buildings, with plans to expand coverage to 40% of total energy needs by 2035.

Table of Energy-Efficient Appliances

Appliance	Total Number	Energy-Efficient Units	Percentage
LED Lamps	25,000	15,000	60%
Smart Fans / Ventilation	200	80	40%
Solar-Assisted AC Units	100	45	45%
PCM-Based Cooling Systems	50	30	60%



Average Percentage	—	—	51%
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Additional Evidence

No	Activity / Source Type	Link	Year
1	Scientific Journals Repository (Energy & Sustainability Research)	journals.uosamarra.edu.iq	Ongoing
2	Green Hydrogen & Sustainable Energy Seminar	uosamarra.edu.iq/news	2025
3	Sustainability Week – Environmental Activities	uosamarra.edu.iq/news	2026
4	Sustainable Energy Week	uosamarra.edu.iq/news	2026
5	Green Hydrogen Symposium	uosamarra.edu.iq/news	2026
6	Water Treatment Research	uosamarra.edu.iq/news	2026
7	Energy-Efficient Appliances Implementation	journals.uosamarra.edu.iq	Ongoing
8	Installation of 500 kW Solar Panels	Internal Report – Faculty of Engineering	2025
9	“No Energy Waste Campus” Program	uosamarra.edu.iq/news	2026

- <https://en.uosamarra.edu.iq/samarra-university-continues-sustainable-energy-week-activities>.
- **Green Buildings:** 30% of university buildings have been upgraded to reduce energy consumption by 25%.
- **Renewable Energy:** Target to cover 40% of campus energy needs with solar power by 2035.
- **Research Output:** More than 15 international publications on sustainable cooling technologies and green hydrogen (2024–2026).
- **Partnerships:** Collaboration with the Iraqi Ministry of Environment to launch a pilot solar energy project on campus.