SAINT LOUIS UNIVERSITY

Baguio City, Philippines

Metric 7.2 University measures towards affordable and clean energy



7 AFFORDABLE AND CLEAN ENERGY

Times Higher Education Sustainability Impact Ratings

AY 2025-2026

SAINT LOUIS UNIVERSITY

Baguio City, Philippines

Indicator 7.2.2 Upgrade buildings to higher energy efficiency



7 AFFORDABLE AND CLEAN ENERGY

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7.2.2 Plans to upgrade existing buildings to higher energy efficiency

SLU’S PLANS TO UPGRADE EXISTING BUILDINGS TO HIGHER ENERGY EFFICIENCY

Saint Louis University's (SLU) commitment to SDG 7.2.2 (Plans to upgrade existing buildings to higher energy efficiency) is fully institutionalized and demonstrated through concrete, measurable actions across its campus infrastructure.

This commitment is anchored by a formal Environmental Policy, which serves as the public pledge to "Use low carbon technologies in buildings and equipment" and "Minimize the consumption of resources and reduce carbon emissions" . The plans to upgrade existing buildings are executed through three primary strategies:

- Extensive Smart Building Implementation
- Comprehensive Energy-Efficient Appliance and Lighting Upgrades
- Integration of Renewable Energy on Existing Buildings

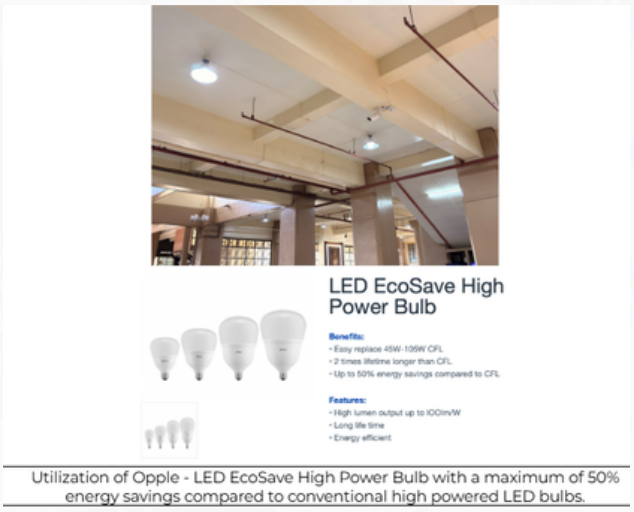


EXTENSIVE SMART BUILDING IMPLEMENTATION

Saint Louis University continues to systematically modernize and retrofit its built environment across campuses and health facilities to achieve higher energy efficiency and lower carbon intensity. Guided by the university's Quality Management System and Environmental Policy, facility upgrades during the 2025–2026 cycle prioritize deep retrofitting, smart lighting integration, and bioclimatic structural optimization.

- **Bioclimatic Upgrades** at SLU Sacred Heart Medical Center (SHMC) Medical Arts Building: A major highlight of the university's facility efficiency program is the SLU SHMC Medical Arts Building Parking Structure. The multi-level parking facility is purposefully engineered with an open-envelope perimeter and porous architectural screening, maximizing ambient daylighting and continuous natural cross-ventilation. By capitalizing on Baguio City's mountain airflow, the structure completely eliminates the need for mechanical exhaust fans, active HVAC chillers, or daytime artificial illumination in vehicular circulation zones.
- **Campus-Wide Solid-State (LED) Lighting Transitions:** Upgrades continued across major academic buildings on the Main and Maryheights Campuses, replacing legacy fluorescent and metal-halide luminaires with commercial-grade, high-lumen-per-watt LED fixtures paired with localized occupancy sensors in common corridors, restrooms, and lecture blocks.





Utilization of Opple - LED EcoSave High Power Bulb with a maximum of 50% energy savings compared to conventional high powered LED bulbs.



Utilization of solar flood lights and installation of solar perimeter lights on the campuses.



ARCHITECTURAL DAYLIGHTING AND SMART RELIGHTING AT THE UNIVERSITY LIBRARY





The newly renovated University Library (Msgr. Charles Vath Building) was redesigned to maximize natural daylighting through optimized spatial layout, open collaborative zones, and reconfigured window exposures. Alongside enhanced natural light penetration, the facility implemented a modern, energy-efficient lighting setup —replacing obsolete luminaires with high-lumen, low-wattage commercial LEDs and segmented zone switching to prevent over-illumination in unoccupied stacks and study areas.



ROOFTOP SOLAR PV EXPANSION — UNIVERSITY LIBRARY (PLANNED AY 2026–2027)





Building upon the university's established solar photovoltaic installations across the Main Campus, Maryheights Campus, and Sacred Heart Medical Center, SLU has integrated a major rooftop solar photovoltaic (PV) array into the planned infrastructure upgrades for the University Library for Academic Year 2026–2027. This modernization initiative transitions the library from a pure consumer of grid electricity into a partially self-sustaining, clean-energy facility, drastically offsetting the baseline energy required for extensive computing spaces, digital learning hubs, and multi-floor illumination.





The SLU SDG Report 2026