

Metric 7.2

AY 2024 - 2025



Saint Louis University

is committed to reducing its energy consumption on its campuses through the commissioning of solar panel systems.



7 AFFORDABLE AND
CLEAN ENERGY



Indicator 7.2.2

AY 2024 - 2025



Saint Louis University

Plans to upgrade existing buildings to higher energy efficiency



**7 AFFORDABLE AND
CLEAN ENERGY**



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 (SLU) strongly demonstrates its commitment to SDG 7.2.2 (Plans to upgrade existing buildings to higher energy efficiency) through the massive implementation of its Smart Building strategy, which covers 95.73% of its total building floor area, amounting to 142,026.47 sq.m.. This near-total transformation of the campus ecosystem involves systematically upgrading existing structures with intelligent features such as automation, energy management, and smart lighting, ensuring that the majority of SLU's facilities operate as sustainable entities. This comprehensive effort directly fulfills the university's formal pledge under its Environmental Policy to "Use low carbon technologies in buildings and equipment" and "Minimize the consumption of resources and reduce carbon emissions," establishing the Smart Building initiative as the primary, measurable plan for institutional energy efficiency.

Comprehensive Energy-Efficient Appliance and Lighting Upgrades



LED EcoSave High Power Bulb



- Benefits:**
- Easy replace 45W-125W CFL
 - 2 times lifetime longer than CFL
 - Up to 50% energy savings compared to CFL
- Features:**
- High lumen output up to 100lm/W
 - Long life time
 - Energy efficient

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



Utilization of air conditioning units with at least 70% of energy saving



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



Saint Louis University (SLU) executes its commitment to SDG 7.2.2 (Upgrading existing buildings to higher energy efficiency) through a comprehensive plan to replace conventional devices with energy-efficient appliances and lighting systems. This effort is guided by the university's Environmental Policy, which mandates the use of "low carbon technologies in buildings and equipment" and the need to "Minimize the consumption of resources and reduce carbon emissions". The plan has achieved a remarkable 100% utilization rate for energy-efficient lighting fixtures, with a full transition to LED Lamps that offer up to 50% energy savings compared to older CFL bulbs. Furthermore, SLU is replacing conventional projector setups in classrooms and meeting rooms with Smart TVs, which significantly reduce 50%-80% in hourly energy use per display. The success of this upgrade plan is evidenced by the university reporting a 100% efficiency rate for all listed energy-consuming appliances, including lighting, televisions, and interactive panels, underscoring its proactive approach to energy conservation.



Integration of Renewable Energy on Existing Buildings



Saint Louis University - Main Campus



Saint Louis University - Sacred Hospital and Medical Center



Saint Louis University - Maryheights Campus

SLU's plan includes the physical upgrade of existing building rooftops with clean energy technologies to improve their energy self-sufficiency:

- The Solar Photovoltaic (PV) Rooftop System has been installed across the university's major facilities, including the Main Campus, Maryheights Campus, and the SLU Sacred Heart Medical Center Building.
- This integration turns existing buildings into active power generators, reinforcing the university's "low carbon footprint strategy" .