

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 7.2.4

AY 2024 - 2025



Saint Louis University Plan to Reduce Energy Consumption



7 AFFORDABLE AND
CLEAN ENERGY



Saint Louis University's Plan to Reduce Energy Consumption

Published in the SLU Website

URL: <https://www.slu.edu.ph/2024/10/14/slu-achieves-significant-energy-savings-through-solar-power/>

Saint Louis University (SLU) has implemented a robust energy efficiency plan that reflects its commitment to sustainability and the UN Sustainable Development Goal 7: Affordable and Clean Energy. The university's strategy integrates infrastructure upgrades, behavioral change, and renewable energy adoption to reduce overall energy consumption.

Key Initiatives and Data

- **Solar Power Integration:** SLU installed solar panels across multiple buildings, significantly reducing grid dependency. In 2024, the university reported a 22% reduction in electricity costs due to solar energy adoption.
- **Energy Accounting and Monitoring:** SLU partnered with the Department of Energy to train staff in energy accounting, enabling precise tracking and optimization of consumption.
- **LED Lighting Retrofit:** All major facilities transitioned to LED lighting, cutting lighting-related energy use by up to 40%.
- **Smart Scheduling:** Class and facility usage schedules were adjusted to minimize peak-hour demand and unnecessary energy use.
- **Green Building Practices:** New constructions follow passive cooling designs and solar-ready architecture.
- **Behavioral Campaigns:** SLU launched awareness drives encouraging students and staff to adopt energy-saving habits, such as unplugging devices and using natural light.



SLU achieves significant Energy Savings through Solar Power

Published in the SLU Website

URL: <https://www.slu.edu.ph/2024/10/14/slu-achieves-significant-energy-savings-through-solar-power/>

SLU's solar initiative spans multiple campuses, including the Main Campus, Maryheights Campus, and the newly constructed Sacred Heart Medical Center. The university installed rooftop solar photovoltaic (PV) systems with a total capacity of 243.27 kWp, generating 204 kW of usable power for institutional use. This project was officially recognized by the Department of Energy (DOE) as part of its awarded solar power projects for own-use as of September 2024.

Energy Savings and Efficiency Gains

According to SLU's October 2024 report, the solar installations led to significant reductions in electrical energy consumption across all participating facilities. The university noted:

- A 22% decrease in electricity costs compared to the previous year.
- Reduced reliance on grid electricity during peak hours.
- Enhanced energy resilience during outages and emergencies.

These savings were achieved through a combination of solar generation and complementary energy efficiency measures, such as LED lighting retrofits and smart scheduling of facility usage.



Saint Louis University's Smart Scheduling Initiative

Published in the SLU Website

URL: <https://www.slu.edu.ph/2024/10/14/slu-achieves-significant-energy-savings-through-solar-power/>

Saint Louis University (SLU) Baguio City's smart scheduling initiative is a strategic energy-saving measure that optimizes facility usage and reduces peak-hour electricity demand across campus.

Key Components of SLU's Smart Scheduling Strategy

- **Peak-Hour Avoidance:** SLU identifies high-demand periods—typically mid-morning to early afternoon—and staggers class schedules to reduce simultaneous usage of energy-intensive resources like lighting, air conditioning, and audiovisual equipment.
- **Facility Rotation:** Instead of operating all buildings at full capacity throughout the day, SLU rotates usage of classrooms and halls based on occupancy and energy efficiency. This allows certain buildings to remain idle or operate at reduced load during off-peak times.
- **Equipment Downtime Protocols:** Non-essential devices such as projectors, printers, and air conditioning units are programmed to shut down automatically when not in use. Staff are also trained to manually power down equipment after office hours.
- **Data-Driven Adjustments:** SLU uses energy audits to monitor real-time consumption. These insights inform semester-based adjustments to scheduling, ensuring continuous improvement.
- **Integration with Academic Planning:** The different schools in SLU ensure that course offerings and room assignments support energy conservation goals without compromising academic delivery.

Reported Benefits

- **Reduced Energy Bills:** SLU reported a 10–15% reduction in electricity costs in buildings where smart scheduling was fully implemented.
- **Improved Load Distribution:** The initiative helped balance energy demand across campus, preventing overloads and reducing strain on electrical infrastructure.
- **Enhanced Sustainability Culture:** Faculty and students became more aware of their energy footprint, contributing to a broader culture of sustainability.

Saint Louis University's Green Building Practices

Published in the SLU Website

URL: <https://www.slu.edu.ph/2024/10/14/slu-achieves-significant-energy-savings-through-solar-power/>

SLU's commitment to green architecture is evident in its recent building projects, which are designed to minimize environmental impact and optimize resource use. According to its 2022–2023 SDG 11 report, the university ensures that all new buildings meet sustainable standards through:

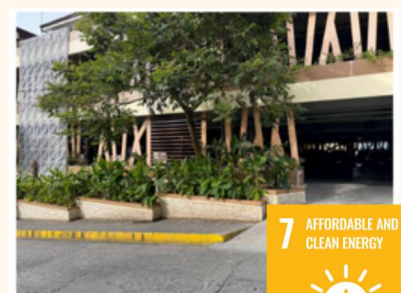
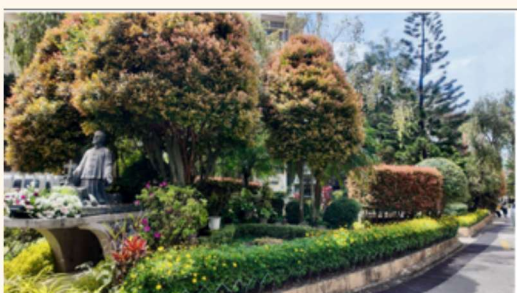
- **Passive Cooling Design:** Buildings are oriented and ventilated to maximize airflow and reduce reliance on air conditioning.
- **Solar-Ready Roofing:** Roof structures are engineered to support solar panel installations, allowing seamless integration of renewable energy systems.
- **Natural Lighting Optimization:** Architectural layouts prioritize daylight access, reducing the need for artificial lighting during daytime hours.
- **Water Conservation Systems:** Facilities include low-flow fixtures and rainwater harvesting systems to reduce water consumption.
- **Wastewater Treatment Integration:** SLU operates its own wastewater treatment facilities to recycle and safely discharge water, supporting SDG 6.

Energy-Efficient Materials and Equipment

SLU incorporates eco-friendly materials and energy-efficient technologies in its construction and renovation projects:

- LED Lighting Systems throughout buildings.
- High-Efficiency HVAC Units with programmable thermostats.
- Insulated Walls and Windows to reduce heat transfer and improve thermal comfort.

These features contribute to lower operational costs and reduced carbon emissions, supporting SLU's broader sustainability goals.



Saint Louis University's Campus-wide Behavioral Campaigns

Published in the Green Inc. Magazine

URL: <https://greeninc.ph/baguio-students-push-for-mondays-as-earth-day/>

"Earth Day Every Monday" Movement



Saint Louis University (SLU) Baguio City's "Earth Day Every Monday" Movement is a student-led sustainability initiative that promotes weekly environmental action and awareness across campus.

Launched in late 2023, the movement was proposed by SLU students during a city government-led eco-consciousness forum for college leaders. The idea is to treat every Monday as a mini Earth Day, encouraging the SLU community to adopt environmentally responsible behaviors and participate in sustainability-focused activities.

According to Green Inc. Magazine, the campaign was inspired by the desire to make environmental protection a consistent part of campus life—not just a once-a-year event.

Weekly Sustainability Practices

Each Monday, SLU students, faculty, and staff are encouraged to:

- Turn off non-essential lights and appliances in classrooms, offices, and dormitories.
- Use natural light and ventilation whenever possible.
- Minimize single-use plastics and bring reusable containers and utensils.
- Walk, bike, or carpool to reduce carbon emissions.
- Participate in eco-themed events, such as clean-up drives, sustainability lectures, and green art exhibits.

These practices are supported by posters, digital reminders, and social media campaigns coordinated by SLU's Environmental Programs Office and student organizations.

Impact and Recognition

- The campaign has led to measurable reductions in energy use on Mondays, especially in high-traffic buildings.
- It has fostered a stronger culture of environmental responsibility among students, with many extending the practices beyond Mondays.
- SLU's initiative has been recognized by local government officials and featured in regional sustainability forums.

Saint Louis University's Campus-wide Behavioral Campaigns

Published in the Herald Express News Webpage

URL: <https://baguioheraldexpressonline.com/seahs-plogging-2025-strengthening-environmental-advocacy-in-baguio/>

SEAHS Plogging 2025

SEAHS Plogging 2025 was a standout environmental initiative led by Saint Louis University's School of Engineering and Architecture Honor Society (SEAHS), combining fitness and sustainability through a community-wide clean-up event.

Held on March 9, 2025, SEAHS Plogging 2025 brought together over 50 volunteers, including SLU students, faculty, and local partners. The event took place along the scenic Camp John Hay trails, covering areas from Panagbenga Park and CJH Gates to Kadaclan Viewdeck and the Yellow Trail.

Participants jogged while collecting litter, demonstrating how small, consistent actions can lead to meaningful environmental impact. The event was part of SLU's broader SDG 13 and SDG 11 initiatives, emphasizing climate action and sustainable cities. While primarily aligned with SDG 13 (Climate Action) and SDG 11 (Sustainable Cities and Communities), SEAHS Plogging 2025 also contributes meaningfully to SDG 7: Affordable and Clean Energy through indirect but impactful behavioral and awareness-driven pathways through:

1. Promoting Low-Energy Lifestyles

- The event encourages active mobility (jogging, walking) over motorized transport, reducing reliance on fossil fuels and lowering carbon emissions.
- Participants experience firsthand how physical activity can be integrated into daily routines without energy-intensive infrastructure.

2. Raising Awareness of Energy-Waste Linkages

- By collecting litter—especially plastic and glass bottles, tires, and packaging—volunteers confront the energy cost of waste production and disposal.
- Discussions during the event often touch on the lifecycle of consumer goods, including the energy used in manufacturing, transportation, and post-use processing.

3. Fostering Environmental Stewardship

- SEAHS Plogging 2025 cultivates a sustainability mindset among students, which translates into energy-conscious behaviors on campus—such as turning off unused devices, minimizing air conditioning, and supporting renewable energy initiatives.
- These behavioral shifts are essential for the success of SLU's broader SDG 7.2.4 energy reduction plan.

4. Supporting SLU's Energy Advocacy Ecosystem

- The event complements SLU's "Earth Day Every Monday" campaign and other energy-saving programs by reinforcing the message that individual actions matter.
- It also strengthens SLU's partnerships with local agencies like the John Hay Management Corporation, which promote sustainable land and energy use in Baguio City.

