Energy Conservation

Kalinga University demonstrates a strong commitment to achieving Sustainable Development Goals (SDGs) through a range of institutional initiatives. In alignment with **SDG 7 (Affordable and Clean Energy)**, the University promotes the use of renewable energy and environmentally responsible practices across the campus to reduce its carbon footprint. It regularly organizes skill development and capacity-building programs and encourages interdisciplinary research and innovation to address sustainability and societal challenges. Various awareness campaigns, workshops, seminars, panel discussions, guest lectures, and community outreach activities build environmental consciousness, social responsibility, and inclusive development.

The campus has installed a 300 kWp Solar Power Plant, which has generated 125,946.60 kWh of electricity. A biogas plant generates renewable energy by converting organic waste into clean fuel. Sensor-based LED lighting systems minimize unnecessary electricity consumption. The University also organizes various events, such as National Energy Conservation Day and renewable energy awareness campaigns, along with poster competitions, technical exhibitions, and student projects on green technologies. Faculty and students collaborate on projects related to improving solar panel performance, hybrid energy systems, and smart energy management. Additionally, the university conducts a Free Solar PV Installation Helper Training Program under the Green Jobs sector (NSQF Level 4) to enhance technical skills and create employment opportunities in the renewable energy sector.

Energy Generated & Consumed Details

A. Solar Power Systems – Rooftop Solar Energy

The University has installed a **300 kWp Solar Power Plant,** reducing dependence on conventional electricity sources. So far, it has generated **125,946.60 kWh of electricity**, contributing towards lower carbon emissions and clean energy usage on campus. Solar panels are installed on rooftops and open spaces to maximize sunlight exposure and energy efficiency. The University

actively promotes the usage of renewable energy through various skill development programs, research and awareness activities. This initiative not only lowered electricity expenses but also proved our commitment to adopting green technology.

Financial Year	Total Electricity Consumed (Grid+RE)	Total Renewable Energy (RE) Power Installed (Solar + Wind + Others)	Total Electricity Generated by RE Technology (Solar + Wind + Others)	Total Built-up Area
Unit	(kWh)	(kWp)	(kWh)	(Sq. ft.)
2024-25	2441.75	300	93936.10	829921
2023-24	3943.3	300	125946.60	829921
2022-23	119.86	300	97119.11	829921


GPS Map Camera
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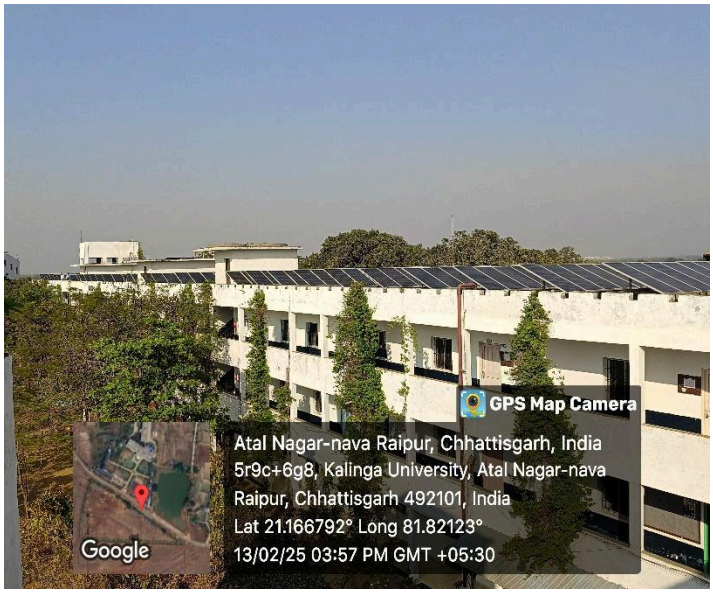
13/02/25 03:58 PM GMT +05:30
Google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5r9c+6g8, Kalinga University, Atal Nagar-nava Raipur, Chhattisgarh 492101, India
Lat 21.166792° Long 81.82123°
13/02/25 03:57 PM GMT +05:30
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B. Biogas Plant

For efficient waste management, the University has installed a biogas plant on campus that converts organic and food waste generated from hostels and other campus areas into renewable energy. The biogas produced is used as a clean fuel, reducing the dependence on conventional fuels. The plant also produces nutrient-rich slurry, an organic fertilizer used in gardening and landscaping purposes, promoting sustainable resource usage and a circular approach towards waste management.

In-house Biogas Plant

C. Sensor-Based LED Lighting Systems

The university has installed sensor-based LED lighting systems in several campus buildings and common areas. These smart lighting systems automatically switch on or off based on human movement and ambient light conditions, reducing unnecessary lighting consumption while maintaining adequate lighting across the campus.


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Naya Raipur, Chhattisgarh, India
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Naya Raipur, Chhattisgarh, India
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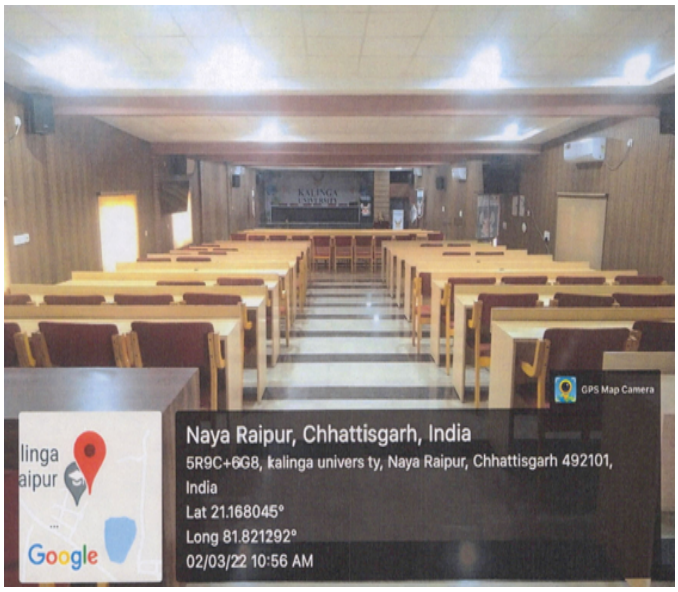

Policy, Energy Audit & Certification

Policy Guidelines For Environmental Sustainability

Energy Audit Reports & Certificates

2020-21
2021-22
2022-23

Energy Conservation Measures
Energy Audit Manual
Green Audit Manual