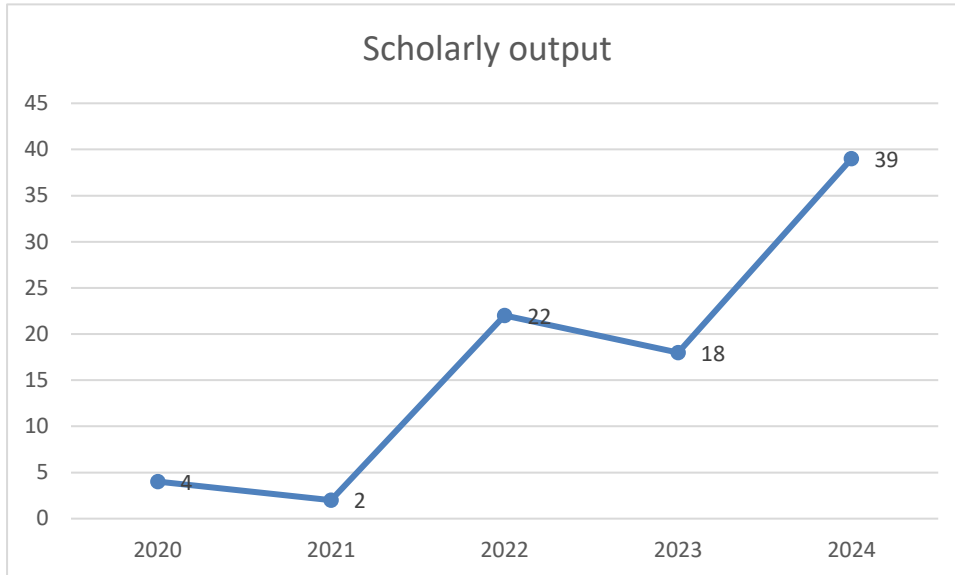


SDG 7: Affordable and Clean Energy

Progress Report

2024-2025

Research progress for SDG 7



Energy efficient building and renovations policy

JGU is committed to addressing the carbon impact of our buildings by measuring and reporting greenhouse gas emissions. We have taken the following measures to ensure buildings efficiency:

1. 97-98% of lights in the campus are LED lights. We are working to increase this to 100%.
2. All street lights have been converted to LED based flood lights
3. Power factor is maintained at the unity level to eliminate power related transmission losses.
4. All external lights are switched on/off as per the timer.
5. Campus have been able to achieve one Megawatt of Solar Power load out of 10 MW total demand load.
6. Air conditioning plants are centrifugal and screw type, which are energy efficient Aircon machines.
7. Toilet exhaust fans are switched on/off via timer switches to avoid unnecessary power consumption.
8. Variable frequency drives are in service to conserve motor power load requirements.

Plans in place to upgrade buildings to higher energy efficiency

1. Additional solar plants shall be added to the existing solar capacity.
2. All new construction projects only utilise the best higher energy efficient materials.
3. We are enhancing green belt development practice and adding more trees to reduce hot island effects.
4. All CFLs shall be replaced with the LED light

Processes for carbon management or reduction of carbon dioxide emissions

1. The DG sets for the Power Back up have been provided with Exh Chimneys to discharge the DG sets Exhaust gases away from the Campus environment.
2. The DG sets shall be provided with the retro fitments devices to eliminate the discharge of CO₂ emissions.
3. All internal campus vehicles are being replaced with EV options like electric mopeds and electric golf cars.
4. The University has introduced a new policy on 'Electrical Appliance and Usage in Hostel Rooms' for encouraging efficient electrical consumption in the residential blocks.
5. We encourage all residents to be mindful of energy conservation. They are advised to turn off lights, fans, and other electrical devices when leaving their room or when they are not needed. Switching to energy-efficient light bulbs and using power-saving modes on electronics whenever possible is also recommended.

Energy reviews to identify high energy wastage

JGU is undergoing a Green Audit certification, which is recognised by The National Assessment and Accreditation Council (NAAC). The scope of this evaluation includes resource management. This assessment will allow us to obtain a comprehensive report on our use of natural resources including energy, with a focus on scarce or non-renewable resources. After the review we will make a plan outlining the measures to ensure compliance with environmental regulations and standards, including monitoring protocols and reporting requirements to ensure the environmental performance is tracked and improved over time.

Energy efficiency advocacy

Public seminar on 'India's Decarbonization Strategy: Progress and Challenges'

Center for Environmental Sustainability and Human Development Jindal School of Liberal Arts and Humanities (JSLH) hosted a public seminar on 'India's Decarbonization Strategy: Progress and Challenges'. The topics discussed included 'Renewable Energy and Electric Vehicles Efficiency and Demand Reduction'

Earthly 3.0 by The Final Stand and JSES student council

Earthly 3.0 was a three-day long event that ran from 20th April to 22nd April with the hope to bring together a community of like-minded individuals sharing a spark of love for our planet.

Gardening Workshop: 22 April, 2024 | 10 AM – 12 Noon

Sustainable Businesses & Food Stalls: 22 & 23 April, 2024 | 3 PM to 11 PM

Photo Exhibition: 22 & 23 April, 2024 | 3 PM to 11 PM

Flower Sales & Love Notes to Nature: 23 April, 2024 | 5 PM to 11 PM

Energy efficiency services for industry

Jindal Global Business School has organised a Two Days Workshop on “SDG 12: Responsible Production And Consumption: Towards Green & Circular Growth Mission of G20 In India” sponsored by ICSSR scheduled on 25th and 26th November, 2023 at JGU campus. The prime

objective of this workshop was to enable the social science researchers to contribute as the change-makers through impactful research that solves the existing problems in the field of social sciences (including but not limited to human behavioural studies, education, business management, and economics). The workshop specifically emphasised hands-on result-oriented sessions that prepared the ground for policy research enabling the transition towards Responsible Production And Consumption: Towards Green & Circular Growth Mission of G20 In India.

Policy development for clean energy technology

Centre for International Trade and Economic Laws (CITEL) is an academic research centre affiliated to Jindal Global Law School (JGLS), O.P. Jindal Global University (JGU). CITEL in collaboration with the CWS undertook a project on renewable energy schemes in the United States in order to identify and submit various local content requirement schemes by various States in the country promoting the purchase of locally produced solar panels instead of those that are foreign-origin/manufactured. This project assisted the Ministry of Commerce and Industry, Government of India to explore the possibilities of seeking a consultation at the WTO concerning the subsidies provided by the US government to the renewable energy sector. The project was funded by CWS.

The Jindal Global Centre for G20 Studies is the first research centre established by any Indian university that will exclusively focus on research, thought leadership and capacity building initiatives relating to G20. G20 is an inter-governmental forum that has 20 countries and the European Union as its members. Its main objective is to address issues relating to the global economy, especially on matters relating to international financial stability, climate mitigation and sustainable development.