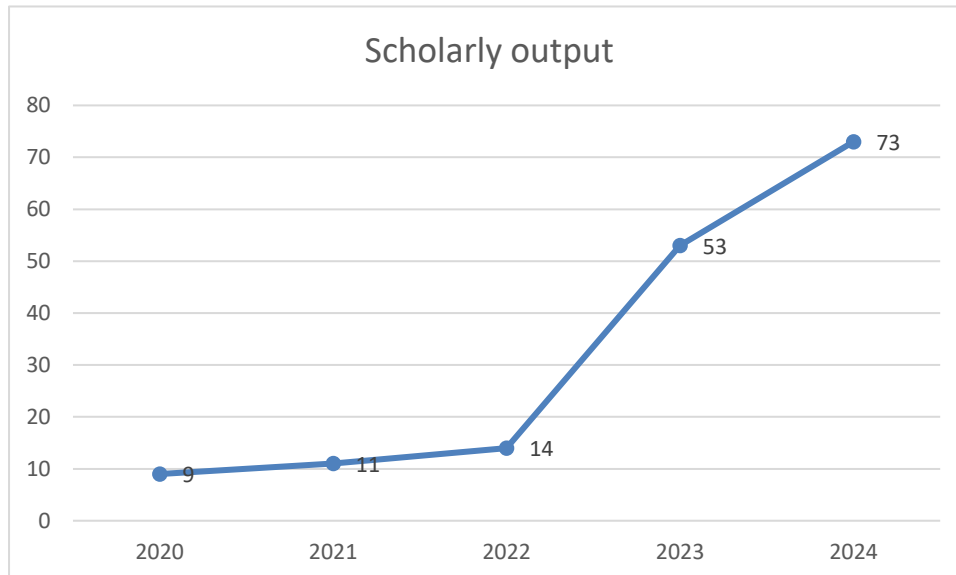


## SDG 13: Climate Action Progress Report 2024-2025

### Research progress on SDG 13



### Low-Carbon Energy Tracking



The primary source of renewable energy at JGU are photovoltaic systems for onsite electricity generation. The solar power system is placed on building rooftops as a part of our net-zero energy building goal. The use of renewable energy reduced reliance power generation through fossil fuels. JGU is committed to improving our renewable energy portfolio

Low-power energy generation tracking targets several UN SDG targets including:

Target 3.9: By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination

Target 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix  
Target 7.b: By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States, and land-locked developing countries, in accordance with their respective programmes of support

Target 11.6: By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management

Target 13.2: Integrate climate change measures into national policies, strategies and planning

### **Publication of Climate Action Plan**

In June 2024, the Office of Sustainability at JGU released a comprehensive Climate Action Plan as part of the annual Sustainable Development Report.

1. Reduction of carbon footprint

According to UNEP, materials used in the construction of buildings account for around nine per cent of overall energy-related CO<sub>2</sub> emissions. As JGU's infrastructure continues to develop and expand, we have to maintain a ratio of carbon emissions to the Gross Internal Area. As we prepare to measure our Scope 3 emissions, all university-sponsored travel – a major contributor for emissions produced by universities – will be calculated as well.

2. Memberships in global sustainability groups

JGU aims to cement our commitment towards mitigating climate change by joining globally recognized groups committed to the same goal. Participation in these groups will help our teams strengthen our skill sets, learn from best practices from top institutions, highlight our own contributions, exchange ideas and build valuable relationships for cross-border collaborations.

3. Certifications for building and operations

As JGU aims to make our day-to-day operations sustainable in the aspects of transportation, water, energy, resources and indoor environment quality, the Office of Sustainability will work on acquiring appropriate certifications of our buildings and renovations.

4. ISO certifications

The university is exploring different ISO certifications to benchmark our processes in management, quality and sustainability across different functional units.

5. Moving towards zero waste

The university is monitoring the food and general waste produced during campus operations and exploring projects for significantly reducing and recycling waste as well as adopting a zero waste target year.

6. Air quality index monitoring system

Air pollutants and greenhouse gases often come from the same sources, such as coal-fired power plants and diesel-fueled vehicles. It is important to identify the key pollutants in the area and their sources to track anomalies which can be dangerous to health. Air quality index

monitoring systems are to be installed in the campus for daily monitoring of air quality levels for the wellbeing of the community.

7. Making transportation more eco-friendly

JGU has set up a three-phased plan for making the commute of visitors, staff and students more environmentally friendly. We will install more EV charging ports and make them accessible to all. We will continue to encourage all staff members to use shuttles instead of their personal vehicles for their daily commute to the campus. We are looking for collaboration opportunities with companies who can support greener travel around the country for our employees.

### **Memorandum of Understanding signed with HME Waste Management**

According to a UN report, India is the world's fifth largest producer of e-waste, discarding almost 1.7 million tonnes of e-waste in 2014. Almost 95% of the e-waste it produces is either burned or dumped in landfills. With rapid urbanisation, this will only multiply—as will the number of people handling it at considerable risk to their health. Managing waste, ensuring sustainable consumption and a healthy environment, and ensuring just and safe working conditions for waste pickers are urgent challenges. [Source: UNFCCC]

The Office of Sustainability team, in collaboration with student group GAIA, held a 2 day e-waste collection drive to spread awareness on the importance of proper disposal of electronic waste. We have installed two permanent collection points in the campus where people can dispose of their electronic waste, which can then be sent to the authorised e-waste management company we have partnered with.