CHRIST
(DEEMED TO BE UNIVERSITY)
BANGALORE | DELHI NCR | PUNE

7 SDG

AFFORDABLE AND CLEAN ENERGY

ANNUAL REPORT

2024-25

Power Progress,
Preserve the Planet



INDEX PAGE

Sl.No	Name of Event	Date	Pg No.	Document Link
1	Detailed Energy Audit – Central Campus	May, 2024	1	Detailed Energy Audit Report – Central Campus
2	Solar Energy Basics - Faculty Learning Activity	26-06-2024	2	CHRIST faculty activity record – Solar Energy Basics
3	Energy Audit – Kengeri Campus	June, 2024	3	Energy Auditing of CHRIST Kengeri Campus
4	Solar Energy and Electrical System Design - Faculty Capacity Building	7-07-2024	4	CHRIST faculty activity record – Solar Energy and Electrical System Design
5	India Sustainability Startathon 2024	23-07-2024	5	SDG Cell - University Level CHRIST (Deemed to be University), Bangalore
6	Seminar On Fintech	10-08-2024	6	SDG Cell - University Level CHRIST (Deemed to be University), Bangalore
7	Carbon Neutrality – Sustainability Summit 2024	10-08-2024	7	Carbon Neutrality Report – Sustainability Summit 2024
8	India Sustainability Youth Summit 2024	02-09-2024	8	SDG Cell - University Level CHRIST (Deemed to be University), Bangalore

9	Christites for Climate Action (CCA)	2024	9	Newsletter
10	Collaborative Energy Audit – Faculty–Student Partnership in Campus Sustainability	2024	10	Department of Physics & Electronics – 2024 Activities
11	Energy Conservation Week and Energy Conservation Day - 2025	21-02-2025	11	https://bkc.christuniversity.in/events/31147

Detailed Energy Audit – Central Campus

Date: May, 2024
Venue: Bangalore, Central Campus

In May 2024, the Department of Electrical & Electronics Engineering, School of Engineering & Technology, conducted a Detailed Energy Audit at CHRIST Central Campus, Bengaluru. The activity was undertaken to assess the campus's overall energy consumption patterns and to identify opportunities to improve energy efficiency, sustainability, and cost savings across university operations. It was carried out through a systematic, campus-wide audit process that evaluated major energy-consuming systems, including lighting, HVAC (heating, ventilation, and air conditioning), fans, motors, and pump sets, in collaboration with the university administration, facility and energy-management teams, and the broader campus community, who were key beneficiaries. The impact of the audit was significant: it provided a comprehensive picture of campus energy usage and led to actionable recommendations, most notably the installation of 200 kW of additional rooftop solar capacity to boost renewable energy generation, along with the adoption of BLDC (Brushless DC) fans, sensor-based lighting, and sub-metering systems to enable precise energy monitoring and reduce wastage. Collectively, these recommendations have the potential to substantially reduce the campus's dependency on grid electricity, lower its carbon footprint, and generate long-term operational cost savings, positioning the audit as a foundational step toward a more energy-efficient and sustainable campus infrastructure.







Solar Energy Basics - Faculty Learning Activity

Date: 26 June, 2024
Venue: Online

The Department of Chemistry at CHRIST University and the State University of New York conducted a "Solar Energy Basics – Faculty Learning Activity," held on campus and online, benefiting a faculty participant. The activity was undertaken to build a foundational understanding of solar energy among faculty members, to extend awareness of renewable energy beyond core engineering departments, and to encourage interdisciplinary engagement with sustainability concepts. It was conducted as a training session focused specifically on solar energy fundamentals, offered in a hybrid format to accommodate participants' convenience, with an individual participant record maintained for accountability and tracking. The impact of the activity, though modest in scale, lies in its contribution to broadening the institution's culture of sustainability literacy across disciplines, ensuring that faculty outside traditional energy or engineering fields also gain basic knowledge of solar energy concepts. This kind of cross-departmental capacity-building supports CHRIST University's holistic approach to sustainability, empowering faculty from diverse academic backgrounds to incorporate energy-conscious perspectives into their teaching, research, and everyday institutional practices, thereby reinforcing a campus-wide commitment to renewable-energy awareness and environmental responsibility.

Energy Audit – Kengeri Campus

Date: June, 2024
Venue: Kengeri Campus

From May to June 2024, the Department of Electrical & Electronics Engineering, School of Engineering & Technology, conducted an Energy Audit at the Kengeri Campus, Bengaluru. The activity was undertaken to evaluate the campus's electricity consumption patterns, which were approximately 200,000 kWh/month, and to identify practical measures to reduce energy waste and improve overall efficiency. It was conducted by surveying all connected loads across the campus and engaging campus administration, facility managers, electricians, housekeeping staff, and campus users to gather comprehensive data on energy use. The impact of the audit was substantial, resulting in key recommendations, including the installation of a 400 kW rooftop solar PV system to enhance renewable energy generation, and the adoption of energy-efficient fans and sub-metering systems for better monitoring and control of consumption. These interventions are expected to significantly reduce the campus's reliance on grid power, resulting in lower electricity costs and a smaller carbon footprint. Overall, the audit has laid the groundwork for a more sustainable and energy-conscious Kengeri Campus, demonstrating how data-driven assessments can directly inform impactful, long-term infrastructural improvements in energy management.







Solar Energy and Electrical System Design - Faculty Capacity Building

Date: 7 July, 2024

The Department of Electrical & Electronics Engineering conducted a faculty development activity titled "Solar Energy and Electrical System Design – Faculty Capacity Building," held through an online university faculty professional development platform, benefiting a faculty participant. The activity was undertaken to strengthen faculty expertise and keep pace with emerging trends in renewable energy and electrical engineering, ensuring that teaching staff remain equipped with current, industry-relevant knowledge. It was conducted as an online training session, allowing flexible participation while focusing specifically on solar energy systems and electrical system design, key areas of growing relevance in the renewable energy sector. In terms of impact, the initiative led to meaningful faculty participation in specialised training centred on solar energy and electrical system design, thereby enhancing faculty members' technical competence. This capacity-building effort is significant as it directly supports the institution's broader sustainability and academic excellence goals by ensuring that faculty are well-versed in solar and electrical technologies, enabling them to guide students better, contribute to research, and support future energy-related projects and initiatives within the university.

India Sustainability Startathon 2024

Date: 23 July, 2024
Venue: Bangalore, Central Campus
No. of participants: 100

The SDG Cell of CHRIST (Deemed to be University), Bangalore, in collaboration with The Future Founder's Co., organised the "India Sustainability Startathon 2024," a two-day bootcamp held on 22nd and 23rd July 2024, with over 100 student participants from across all campuses. The activity was conducted to build students' understanding of sustainability challenges, sharpen their problem-solving and entrepreneurial skills, and provide them with a genuine opportunity to represent India at the ASEAN-China-India Youth Leadership Summit in Singapore. It was carried out through an opening address by Dr Leena James, structured sessions led by Ms Supriya Panchangam and Rohan Subhash covering SDG 7 (Affordable and Clean Energy), mentorship from past winners who now run a successful travel company, hands-on problem identification and solution-building, and final presentations before a panel of judges on the second day. The impact was substantial: participants developed enhanced problem-solving, teamwork, and presentation skills, gained real exposure to global sustainability platforms, and left with a deeper, practical understanding of how to translate SDG-aligned ideas into feasible ventures, with top performers earning a shot at international recognition and funding.







Seminar On Fintech

Date: 10 August, 2024
Venue: Bangalore, Central Campus
No. of participants: 100+

The activity was a "Seminar on Fintech," organised on 10th August 2024 by the Law and Technology Committee of the School of Law, in collaboration with the SDG Cell of CHRIST (Deemed to be University), Bangalore, and drew over 100 participants from the fields of Law, Business Management, and Professional Studies. The seminar was conducted to deepen students' understanding of how financial technology intersects with global finance and sustainability, specifically by aligning fintech innovations with SDG 7: Affordable and Clean Energy. The event was carried out through an interactive format: student convenors Ayaan and Nidhi introduced fintech's role in the SDGs, followed by keynote speaker Mr Anish Dey's presentation on "Fintech and Global Finance Policy," which included discussions on stock market trends, algorithmic trading, geopolitical impacts, and a hands-on session on trading terminologies and candlestick chart analysis. The impact was significant in building participants' financial literacy, highlighting fintech's role in advancing financial inclusion, sustainable infrastructure, and renewable energy investment, while also fostering critical awareness of market unpredictability and the practical tools needed to navigate global financial systems responsibly.



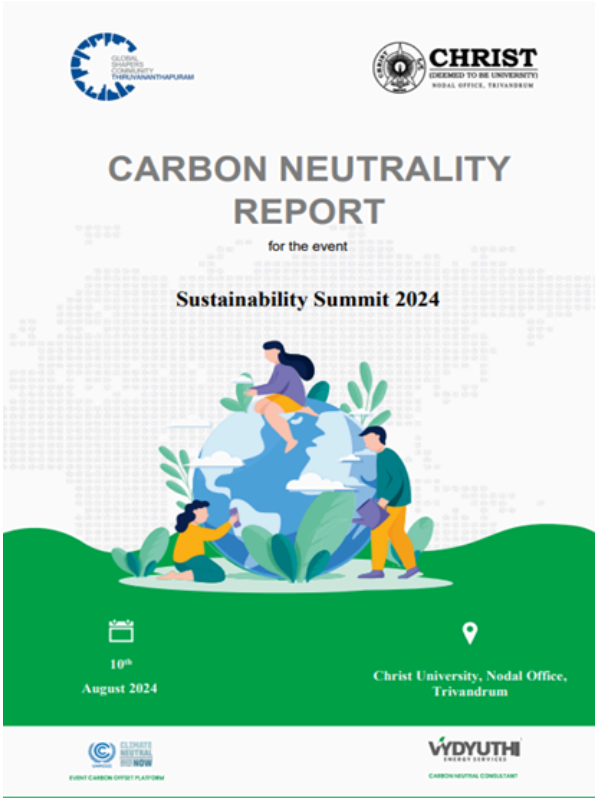




Carbon Neutrality – Sustainability Summit 2024

Date: 10 August, 2024
Venue: Nodal Office in Thiruvananthapuram

The Global Shapers Community, in collaboration with the CHRIST University Nodal Office, organised "Carbon Neutrality – Sustainability Summit 2024" at the Nodal Office in Thiruvananthapuram, benefiting summit participants and organisers. The activity was conducted to promote awareness and practical action around achieving carbon neutrality, bringing together stakeholders to discuss and demonstrate sustainable practices in event management and community engagement. It was carried out by organising the summit as a carbon-conscious event, incorporating measures such as reducing energy and material consumption and promoting sustainable transport options for attendees, thereby embedding sustainability principles into the event's execution. The impact of the initiative was noteworthy: total event emissions were estimated at approximately 2 tCO_2e, which were fully offset through Certified Emission Reductions sourced from a wind-energy project in Maharashtra, effectively making the summit carbon-neutral. This outcome highlights a tangible, measurable contribution toward climate action, showcasing how conscious planning and carbon offsetting can be integrated into institutional events, while also setting a replicable model for future sustainability-focused gatherings at CHRIST University.





India Sustainability Youth Summit 2024

Date: 2 September, 2024
Venue: Bangalore, Central Campus
No. of participants: 100+

The SDG Cell of CHRIST (Deemed to be University), Bangalore, in collaboration with The Future Founder's Co. and OSG Youth Alliance, organised the "India Sustainability Youth Summit 2024" on 2nd September 2024 at the KE Auditorium, marking the culmination of the India Sustainability Startathon 2024. The activity was conducted to celebrate youth-led sustainability innovation, integrate SDG principles into education, and empower over 100 students from various universities to become sustainable leaders, particularly around SDG 7. It was carried out through a lamp-lighting ceremony, keynote addresses by Dr Leena James, Fr. Dr Jose CC, and Prof. Arvind Lodaya highlighting Christ University's sustainability initiatives like Parivartana waste management, a diverse student panel discussion on climate action and technology, remarks by Dr Tan Eng Han on youth empowerment, an awards ceremony, and a beatboxing performance for entertainment. The impact was significant: winning teams like Team Eco (CMR University) and other finalists earned recognition and a fully-funded opportunity to represent India at the ASEAN-China-India Youth Leadership Summit in Singapore, while all participants gained deeper insight into translating sustainability ideas into real-world action, reinforcing the university's culture of embedding SDGs into everyday practice.







Christites for Climate Action (CCA)

Venue: Bangalore, Central Campus
No. of participants: 550+

The activity encompasses the ongoing work of Christites for Climate Action (CCA), a student-led movement at CHRIST (Deemed to be University), Bangalore, founded by Vice Chancellor Rev. Fr. Dr Jose CC, comprising initiatives like plogging treks, tree plantation drives, seed distribution campaigns, awareness stalls, and a creative flash mob. The activities were undertaken to address the urgent global threat of climate change, aligning with UN SDG 13 (Climate Action) alongside SDGs 7 and others, to foster eco-conscious lifestyles among students and extend environmental responsibility to broader society. These were carried out through hands-on grassroots efforts: volunteers cleaned trails while hiking, planted trees to boost biodiversity, distributed over 100 seed packets at Lalbagh, ran awareness stalls on carbon footprints and menstrual sustainability, and staged a Garba-based flash mob promoting sustainable menstrual products. The impact has been substantial and multi-layered—raising ecological awareness across campus and society, building a passionate community of student volunteers and leaders, encouraging tangible eco-friendly habits, and, as testimonials reveal, meaningfully shaping participants' personal growth, leadership skills, and lifelong commitment to environmental stewardship and collective climate action.







Collaborative Energy Audit – Faculty–Student Partnership in Campus Sustainability

In 2024, the Department of Physics & Electronics at CHRIST University, Bengaluru, organised a Collaborative Energy Audit as part of a Faculty–Student Partnership in Campus Sustainability. The activity was carried out to foster active involvement of faculty and students in campus sustainability efforts, encouraging a participatory approach to energy conservation rather than relying solely on administrative or technical teams. It was conducted as a joint initiative that brought together faculty members and students to audit energy practices across campus, thereby building awareness and shared ownership of sustainability goals within the academic community. In terms of impact, the activity was formally documented as a departmental activity for 2024, reflecting its recognition as a meaningful sustainability initiative; however, specific quantitative outcomes, such as participant counts or energy savings, were not disclosed on the public activity page. Despite this limited quantitative reporting, the initiative holds qualitative significance in promoting a culture of sustainability, experiential learning, and cross-disciplinary collaboration between faculty and students, reinforcing the institution's broader commitment to environmental responsibility and energy consciousness within its campus community.





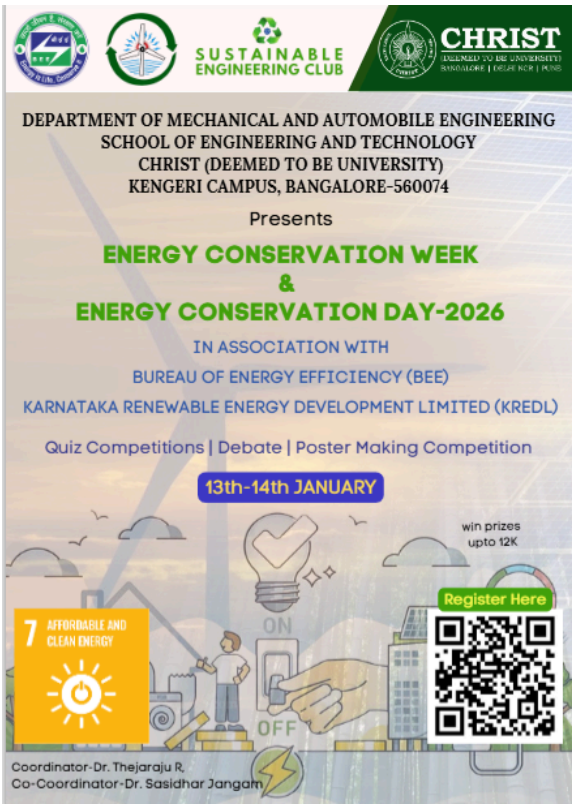
Energy Conservation Week and Energy Conservation Day - 2025

Date: 21 February, 2025
Venue: Christ University, Kengeri Campus
No. of participants: 40

The activity was "Energy Conservation Week and Energy Conservation Day-2025," organised from 21st-24th February 2025 by the Department of Mechanical and Automobile Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Kengeri Campus, in association with the Bureau of Energy Efficiency (BEE) and Karnataka Renewable Energy Development Limited (KREDL). The activity was conducted to raise awareness of sustainability and energy conservation, aligning with SDG 7 (Affordable and Clean Energy), and to encourage students and faculty to adopt energy-efficient practices and demonstrate environmental responsibility. It was carried out through a multi-pronged approach: two expert guest talks by Dr Varaprasad Janamala and Mr Adarsh S V on renewable energy and sustainable practices, a two-round quiz competition on energy conservation involving 35 participants, and a poster-making competition themed "A Greener Tomorrow Starts Today" with 40 participants showcasing creative environmental advocacy. The impact was significant and well-documented through feedback analysis: over 90% of attendees found the sessions informative and engaging, participants reported enhanced understanding of sustainable energy and renewable technologies, and the impact surveys revealed increased climate awareness, motivation toward eco-friendly habits, sharpened critical thinking, and inspiration for future careers and community action in green technology and sustainability.









CHRIST (DEEMED TO BE UNIVERSITY)
HOSUR ROAD
BENGALURU - 560029
KARNATAKA, INDIA