

# VISHWAKARMA UNIVERSITY

SDG 7 REPORT 2023



**VISHWAKARMA  
UNIVERSITY**  
*Maximising Human Potential*

University Grants Commission (UGC) Approved State Private University





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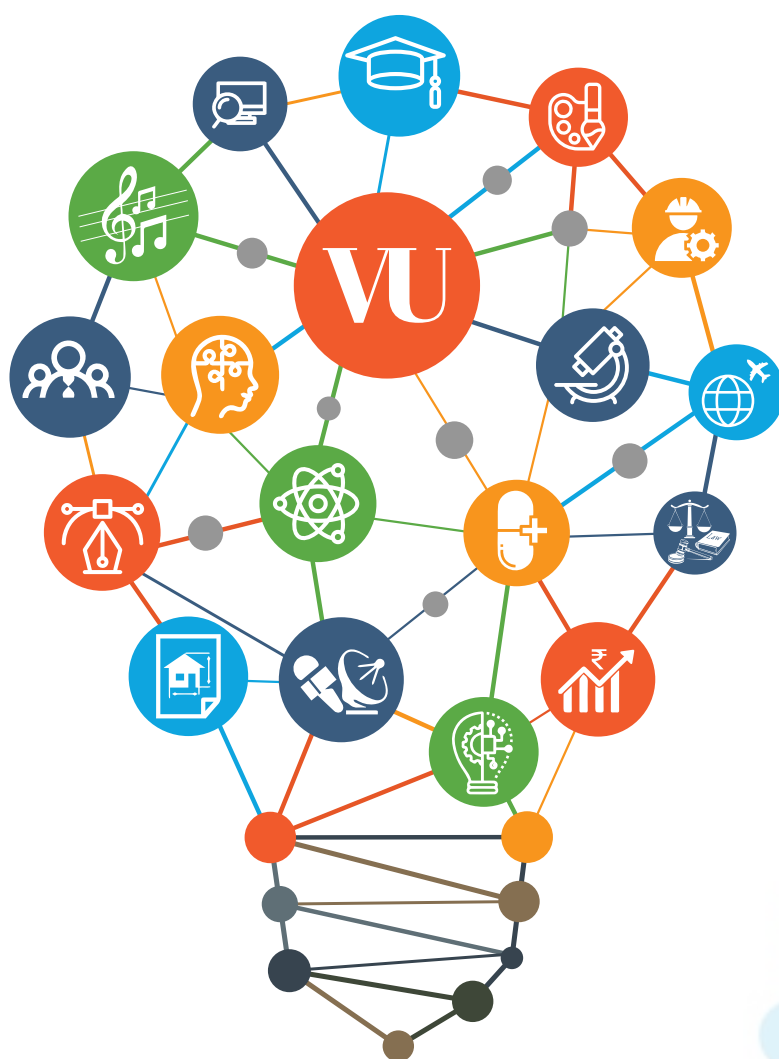
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*Maximising Human Potential*

# About This Report

At Vishwakarma University (VU), our steadfast commitment to sustainable development is profoundly aligned with the United Nations' 2030 Agenda for Sustainable Development. These global goals delineate an aspirational vision for a sustainable future, one that VU has deeply integrated into its institutional framework and curriculum.

Our foundational principle, Unleashing Human Potential, reflects our dedication to cultivating an environment conducive to the holistic development of our students, empowering them with the resilience and confidence required to navigate contemporary challenges.

As part of our sustainability mission, VU has reimagined itself as an Eco-campus, exemplifying innovative and sustainable practices. This report details our continual efforts to minimize our carbon footprint and highlights the impactful partnerships underpinning these achievements. For instance, our Certificate Programme in Sustainability Management, developed collaboratively with Hof University of Applied Sciences, Germany, equips students with advanced competencies in business management and contemporary sustainable practices. Additionally, through a strategic partnership with the Wilo Foundation, we have established the Water Quality Centre of Excellence, aimed at advancing water treatment, purification, and public awareness of clean drinking water.

VU's commitment to sustainability extends beyond environmental stewardship. We have launched a dedicated Center for Sustainability, NEXUS, that undertakes activities aligned with the Sustainable Development Goals (SDGs). Our mission is to cultivate informed, ethical, and skilled individuals who uphold principles of equity, inclusivity, and excellence. By engaging students in practical applications of their knowledge, we bridge the divide between theoretical frameworks and real-world challenges.

Our participatory development model actively involves students and industry stakeholders, ensuring that our academic philosophy equips learners with the competencies essential for addressing the complexities of the modern business landscape. VU's extensive network, encompassing over 45 collaborations with prominent industries and educational institutions—including the Maharashtra State Faculty Development Academy, Queen Mary Technical Institute, Buldhana Urban Cooperative Credit Society, and TATA Technical Limited—facilitates industry projects, live projects, internships, and placements, thus enhancing practical exposure and career prospects for our students.

Furthermore, VU is committed to fostering a well-rounded education and community engagement through initiatives such as the VU-Centre for Communication Development, the Sahyadri Communication Project, and the VU Legal Aid Clinic, all integral components of our VU-iPAR Model. This model emphasizes community involvement, and we encourage student leadership through programs such as the National Service Scheme (NSS) and the Student Council. In alignment with the National Education Policy (NEP) 2020, we offer NEP 2020 courses and have established the VUWCOE – VU Wellness Center of Excellence, supporting holistic development in both academic and wellness dimensions.

In summary, Vishwakarma University's commitment to sustainable development and the SDGs is firmly embedded within our institutional ethos. Through collaborative engagement with diverse stakeholders, we consistently integrate sustainability into our operations, fostering a culture of innovation, research, and learning. VU remains committed to preparing future leaders equipped to drive impactful change, contributing meaningfully to the global vision of sustainable development.

**Prof. (Dr) Siddharth Jabade**  
**Vice-Chancellor**  
**Vishwakarma University, Pune, India**

## VU's Participation in the THE Impact Rankings 2023

Vishwakarma University (VU) also participated last year in Times Higher Education (THE) Impact Rankings 2023, which looks at global universities' commitment and performance in furthering the Sustainable Development Goals (SDGs).

VU took part in the 4 SDGs listed below plus the mandatory SDG 17 and the results were as follows:

### Overall Ranking 1001+







**7** AFFORDABLE AND  
CLEAN ENERGY



**Ensure access to affordable,  
reliable, sustainable and  
modern energy for all**

In alignment with our commitment to the United Nations Sustainable Development Goals (SDGs), we are in the process of gathering necessary data and evidence to support our institution's participation in the 2025 Times Higher Education (THE) Impact Rankings under

#### **SDG 7: Affordable and clean energy.**

**Affordable and Clean Energy** aims to ensure access to affordable, reliable, sustainable, and modern energy for all. Universities play a critical role in advancing this goal through research, innovation, and education. They contribute by developing renewable energy technologies, conducting interdisciplinary studies on energy efficiency, and promoting sustainable practices on campuses. Academic institutions can collaborate with industries and governments to create policy frameworks that support clean energy transitions. Additionally, universities can serve as living laboratories for sustainable energy solutions, equipping the next generation of leaders with the skills needed to address global energy challenges.

#### **Research on clean energy**

Clean Energy Technology-Pledge

[https://drive.google.com/drive/folders/1jmhRxGBkhzIKsU2KnHd5BZHRMs\\_RGkkc?usp=drive\\_link](https://drive.google.com/drive/folders/1jmhRxGBkhzIKsU2KnHd5BZHRMs_RGkkc?usp=drive_link)

#### **Virtual Energy audit work**

1. First 10 citations on student's projects and publications – Virtual Energy audit work executed by students for different buildings
2. Later 8 publications are from my PhD work on Hydropower – Clean energy
3. Patent on Reaction turbine

<https://scholar.google.com/citations?user=rH7RnpUAAAAJ&hl=en>



### University measures towards affordable and clean energy

Energy-efficient renovation and building:

[https://drive.google.com/drive/folders/1Bu57W\\_Q7rWViVLjd5lxg8qBWtYhWNadB?usp=drive\\_link](https://drive.google.com/drive/folders/1Bu57W_Q7rWViVLjd5lxg8qBWtYhWNadB?usp=drive_link)













### Water Conservation

An Automatic Urinal Sensor or Flusher is a device used in public and commercial restrooms to automatically flush urinals without the need for manual intervention. These systems employ sensors, typically infrared or ultrasonic, to detect the presence of a user and trigger the flushing mechanism once the user steps away. The urinal sensor is connected to a solenoid valve that is plumbed directly into the urinal water feed pipe. The infra-red sensor detects movement within the vicinity of the urinals and subsequently allows a small amount of water to fill the urinal cistern.

### Sensor controlled Light Switch

Motion sensors are devices that detect movement and automatically turn on lights in a room or area. Some motion sensors have adjustable sensitivity, delay times, and detection ranges or may have additional features like daylight harvesting, which turns off lights when natural light is sufficient. We have movement-based sensors to conserve the light energy.

**Eco-friendly transportation** is vital for sustainable development and the fight against climate change. It significantly reduces greenhouse gas emissions, which are a primary driver of global warming. By choosing electric vehicles, bicycles, public transport, or walking, we lessen our dependence on fossil fuels, thereby reducing air pollution and its adverse effects on human health and the environment. Electric vehicles, for instance, produce zero tailpipe emissions, and when powered by renewable energy, their environmental impact is even lower. Public transportation systems, such as buses and trains, can carry many passengers simultaneously, leading to fewer vehicles on the road and less congestion and pollution. Cycling and walking not only have zero emissions but also promote physical fitness and overall well-being. Eco-friendly transportation also conserves natural resources and promotes energy efficiency. Reduced fuel consumption means less extraction and processing of fossil fuels, which in turn protects ecosystems and biodiversity. Furthermore, these transportation methods can decrease noise pollution, making urban areas more pleasant to live in. Hence as a part of encouraging Students and Faculties of Vishwakarma University to switch to Electric Vehicles, Electric Vehicle charging Points has been installed at various parts of the campus.

Divestment policy:

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Green Building Well being Policy :

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Renewable Energy Pledge

[https://drive.google.com/drive/folders/1jmhRxGBkhzIKsU2KnHd5BZHRMs\\_RGkkc?usp=drive\\_link](https://drive.google.com/drive/folders/1jmhRxGBkhzIKsU2KnHd5BZHRMs_RGkkc?usp=drive_link)





Photo:Electric Vehicle Charging Point





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