



Climate Action



Sustainable Development Goals Report 2023

“Climate change is a crisis that will affect every part of society and every country. Universities need to be at the forefront of action to reduce the impact of climate change, especially amongst the poorest, who will be the most affected.”

THE Impact Rankings





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STATISTICS

51,993 GJ

Total energy used

1,202 GJ

Total energy used from low-carbon sources

125

Number of publications 2019-2023



ITS Strengthens Climate Change Education and Awareness through Comprehensive Initiatives

ITS has been actively enhancing education, awareness, and capacity-building related to climate change through its ITS Climate Action initiative and the Generasi Integralistik (Gerigi) 2023 program. These efforts are integral to fostering a culture of sustainability and environmental responsibility within the ITS community. In 2023, the Gerigi program involved thousands of new students in activities designed to highlight the urgent need for climate action and environmental preservation. By integrating climate awareness into the campus orientation program, ITS instills a sense of responsibility and urgency in students regarding global climate challenges. Creative activities, such as the climate crisis puzzle depicting environmental challenges faced by 34 countries, promote awareness and educate students on the importance of reducing paper use and deforestation.

As part of its 63rd-anniversary celebration, ITS organized a series of activities aimed at raising awareness and engaging the community in climate change mitigation and adaptation efforts. The ITS Climate Action initiative includes research and development projects focused on reducing greenhouse gas emissions, such as innovations in electric vehicles. Additionally, ITS launched the e-klim application, which facilitates community participation in activities like mass clean-ups, tree planting, cycling, and healthy walking.



ITS Advances Climate Action through Education and Innovation

ITS spearheads various initiatives to integrate renewable energy and sustainable practices into national strategies. The Blue Energy for Blue Economy Initiative fosters climate change education by combining renewable marine energy with sustainable economic practices. Supported by the British Council, this program involves local and international academics in exploring renewable sources like solar, wind, and wave energy. Activities such as mangrove planting and resource surveys in Malang aim to promote decarbonization and boost local economies.

In the realm of renewable energy, a collaboration with PLN ITS was also initiated through a Ministry-supported MoU. It focuses on energy transition research across top Indonesian universities, offering scholarships to improve student quality and prepare them for careers in the evolving energy sector. As a continuation of the initiative, ITS and PLN have introduced earthquake-resistant homes made from Fly Ash Bottom Ash (FABA), The Earthquake-Resistant FABA Homes in Sumberejo Village. Meanwhile, the FABA-based bricks Rumah Bima were also introduced together with Politeknik Perkapalan Negeri Surabaya to address waste sustainably and provide economic opportunities for local communities.

For the Net-Zero Emission Policy Development, ITS collaborates with the National Research and Innovation Agency (BRIN) to jointly develop policies for Indonesia's 2060 Net-Zero Emission (NZE) target. Emphasizing comprehensive policy-making, ITS aims to ensure economic growth and environmental protection. The collaboration involves ITS experts in shaping impactful NZE strategies. ITS also evaluates Indonesia's readiness for Low-Carbon Emission Vehicle (LCEV) policies through the LCEV Policy Readiness Assessment, which highlights the need for government strategies like efficient fuel and tax incentives to reduce CO₂ emissions.

