



# 13 CLIMATE ACTION

55,163 GJ

Total Energy Used

333,905 kwh

Total Energy Generated from  
Renewable Resources

## Outreach

### Post-Quake Support for Communities

Following the earthquake in Tuban, the ITS Center for Infrastructure and Built Environment (MKPI) provided free building consultation services to affected communities, demonstrating a swift and compassionate outreach response. The initiative aimed to assess structural safety, offer technical advice, and raise public awareness about earthquake-resilient construction. By deploying experts directly to the field and opening accessible consultation channels, ITS empowered residents to make informed decisions about repairs and reconstruction. This effort reflects the university's commitment to disaster response, community resilience, and the practical application of academic expertise for public benefit.



### Webinar on Megathrust Preparedness

ITS, in collaboration with BMKG and BPBD, organized a public webinar to educate communities in disaster-prone coastal regions about megathrust earthquake risks and mitigation strategies. The session provided accessible insights into seismic hazards, early warning systems, and structural safety. This initiative aimed to strengthen disaster literacy and empower stakeholders to build resilience, reflecting ITS' commitment to inclusive disaster education and multi-stakeholder collaboration.

## Research

### Pentahelix Collaboration for Resilience

ITS reaffirmed its commitment to disaster risk reduction by actively engaging in the pentahelix collaboration model, which unites academia, government, industry, media, and the community. Targeting enhanced disaster preparedness across East Java, ITS collaborates with the Regional Disaster Management Agency (BPBD), the Meteorology, Climatology, and Geophysics Agency (BMKG), and other strategic partners to promote inclusive mitigation efforts.

Through public education, research-based policy input, and community empowerment, ITS helps translate scientific knowledge into practical solutions, fostering resilience and coordinated response at multiple levels.

## Teaching

### Educating Communities on Earthquake Safety

ITS actively promotes earthquake mitigation education by sharing structural reinforcement strategies tailored to megathrust risks in vulnerable regions. Through public seminars and academic outreach, ITS targets coastal communities and disaster-prone areas, aiming to raise awareness and improve building safety standards. In collaboration with the Meteorology, Climatology, and Geophysics Agency (BMKG) and the Regional Disaster Management Agency (BPBD), the initiative translates engineering research into practical guidance for local stakeholders. This teaching and learning effort reflects ITS' commitment to inclusive disaster education and community resilience through science-based solutions."

## Research

### Innovating Climate Solutions for Communities

The Climate Innovation Acceleration (CIA) program at ITS, organized with Ecoxyztem and supported by HSBC Indonesia, united startups, students, and experts to co-develop environmental solutions for empowering communities. The event highlighted real-world applications like waste-to-energy systems and sustainable business models, showing how local innovations can drive ecological and economic opportunity. By fostering cross-sector collaboration and mentoring over 30 climate-tech startups, ITS reaffirmed its role as a catalyst for community-centered, sustainable innovation.



### Community Innovation for Flood Prevention

ITS introduced infiltration wells as a practical solution to help communities manage rainwater and reduce urban flooding. Targeting flood-prone areas around the ITS campus, the initiative aims to minimize surface runoff and recharge groundwater through eco-friendly infrastructure. In collaboration with the Surabaya City Government and the Department of Environment and Sanitation (DLHK), ITS combines engineering innovation with local empowerment to promote climate adaptation. This community-focused effort reflects ITS' commitment to sustainable urban resilience and cross-sector collaboration for environmental impact."

### VR Innovation for Disaster Preparedness

ITS, in collaboration with the East Java Regional Disaster Management Agency (BPBD Jatim), launched a virtual reality (VR) disaster simulation to strengthen public awareness and preparedness. Targeting students, local communities, and disaster-prone areas, the innovation offers immersive learning experiences that simulate emergency scenarios such as earthquakes and tsunamis. By combining cutting-edge technology with educational outreach, the initiative empowers users to understand response strategies and improve decision-making during crises. This community-focused innovation reflects ITS' commitment to inclusive disaster education and multi-stakeholder collaboration for resilience."