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International Student Conference 2027

Powering the Future

Youth Driving Innovation for Sustainable and Inclusive Energy Futures

Terms of Reference



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Partnerships

Universitas Katolik Parahyangan

As the proud host and academic pillar of ISC 2027, UNPAR provides the vibrant intellectual environment and unwavering support crucial for fostering global youth leadership and dialogue, embodying its commitment to internationalization.

International Network of Universities (INU)

As a vital global consortium, INU broadens the reach of ISC 2027 by connecting participants to a worldwide network of academic excellence and creating meaningful opportunities for international collaboration, knowledge exchange, and engagement.

International Office (IO) UNPAR

The dedicated engine behind UNPAR's global engagement, the IO UNPAR ensures the seamless execution and enriching international experience of ISC 2027, bridging cultures and connecting participants from around the globe.

International Student Conference 2027

Our flagship event, ISC is dedicated to empowering youth to shape sustainable and inclusive energy futures, serving as a dynamic platform for innovation, interdisciplinary learning, global perspectives, and cross-cultural understanding.

Partnerships

PT Geo Dipa Energi (Persero)

A key energy partner, PT Geo Dipa Energi brings Indonesia's geothermal expertise to ISC 2027, connecting participants with real-world renewable energy development and fostering meaningful opportunities for learning, field exploration, and sustainable innovation.

United Nations Indonesia

The United Nations in Indonesia connects ISC 2027 participants with the Sustainable Development Goals, global energy challenges, and local action, fostering meaningful dialogue on youth participation and inclusive sustainable development.

Taman Mini Indonesia Indah

A cultural and educational partner, Taman Mini Indonesia Indah provides participants with an opportunity to explore the Museum Listrik dan Energi Baru, connecting ISC 2027's energy theme with interactive learning on electricity, renewable energy, and Indonesia's energy development.

Theme Overview

Powering the Future: Youth Driving Innovation for Sustainable and Inclusive Energy Futures

Energy and Me

ENERGY AND ME: UNDERSTANDING THE HIDDEN ENERGY BEHIND EVERYDAY LIFE

- **Keynote Lecture**: Understanding the System that Powers Us: Energy Behind Our Everyday Lives
- **Workshop 1**: How Energy Moves: From Power Plants to Phones, Food, and Cities
- **Workshop 2**: Energy Stories: How Our Countries Imagine the Future of Power

People and Energy

PEOPLE AND ENERGY FUTURES: CONNECTING GLOBAL GOALS WITH LOCAL REALITIES

- **Keynote Lecture:** Global Energy Goals, Local Realities: Building Sustainable Futures That Work
- **Workshop 3:** Youth Voices for Sustainable Energy Futures: From Awareness to Action
- **Workshop 4:** Ambitious, Inclusive, or Feasible? Designing Energy Solutions for Different Realities

Indonesia's Role

INDONESIA AS AN ENERGY LIVING LAB: COMMUNITY, INNOVATION, AND CIRCULAR FUTURES

- **Keynote Lecture:** Why Indonesia Matters: Local Energy Innovation for a Shared Future
- **Workshop 5:** From Waste to Watts: Community Innovation for Indonesia's Energy Future

Introduction

The International Students Conference (ISC) is an annual collaborative forum that has brought together students from different countries and disciplines for more than a decade. Each year, ISC raises a different global issue and turns it into a shared learning experience through keynote lectures, interactive workshops, field visits, cultural activities, and collaborative projects. Through this format, ISC reflects Parahyangan Catholic University's commitment to academic excellence, intercultural understanding, and meaningful global engagement.

ISC 2027 explores the future of energy and places youth at the center of the conversation. Energy is often discussed through power plants, technologies, and infrastructure, but it is also deeply connected to everyday life. It shapes how people move, study, work, eat, use technology, manage waste, design cities, and imagine the future. For young people, understanding energy means understanding the systems that support their lives and exploring how innovation, choices, and collective action can contribute to more sustainable and inclusive futures. Indonesia offers a unique place to learn about the future of energy. As an archipelagic country with diverse communities, abundant natural resources, growing energy needs, and uneven access to infrastructure, Indonesia does not have a single pathway toward a sustainable energy future. Its diverse geography, communities, resources, infrastructure, and development needs mean that energy solutions must consider not only technology, but also affordability, reliability, environmental sustainability, local livelihoods, and community participation.

For this reason, ISC 2027 positions Indonesia as an energy living lab, where participants can learn from real examples of renewable energy, local innovation, and community-based solutions. Through discussions and field-based learning, participants will explore how geothermal energy, hydropower, floating solar, biogas, electric mobility, waste management, circular economy practices, and community initiatives can contribute to a more sustainable and inclusive energy future.



Introduction

The conference supports several Sustainable Development Goals, particularly SDG 7 on Affordable and Clean Energy, SDG 9 on Industry, Innovation and Infrastructure, SDG 11 on Sustainable Cities and Communities, SDG 12 on Responsible Consumption and Production, SDG 13 on Climate Action, and SDG 17 on Partnerships for the Goals. In collaboration with partners such as UN Indonesia, PT Geo Dipa Energi, local communities, academic experts, and other relevant stakeholders, ISC 2027 aims to create a learning space where international and Indonesian students can connect global energy challenges with local realities. The conference encourages participants not only to understand contemporary energy challenges, but also to imagine how they can contribute to energy futures that are more sustainable, innovative, resilient, and inclusive.



Objective

The main objective of ISC 2027 is to strengthen youth understanding, creativity, and participation in shaping sustainable and inclusive energy futures through innovation, interdisciplinary learning, and engagement with real-world energy challenges.

The conference provides a platform for participants to explore contemporary energy challenges and opportunities from multiple perspectives, including technology, society, environment, economy, community life, and everyday behaviour. Rather than treating energy as a purely technical issue, ISC 2027 invites participants to see energy as something connected to people, places, choices, and futures.

Participants will be encouraged to:

- Develop energy literacy and understand how energy systems influence everyday life, cities, communities, industries, and the environment.
- Examine the opportunities and challenges of renewable energy, energy infrastructure, circular economy, and emerging technologies.
- Explore Indonesia's diverse approaches to sustainable energy, including geothermal energy, community-based energy, and waste-based innovation.
- Reflect on affordability, access, community participation, local needs, and how the benefits and impacts of energy development are experienced across different communities.
- Collaborate across nationalities and academic disciplines to develop energy ideas that are locally grounded and globally relevant.
- Engage in site visits, stakeholder discussions, field observation, simulations, and practical activities that connect classroom learning with real-world experiences.
- Strengthen youth voices in shaping climate action, sustainable development, and the future of energy.









Key Themes

1 **Energy And Me: Understanding The Hidden Energy Behind Everyday Life**

- **Keynote Lecture**: Understanding the System that Powers Us: Energy Behind Our Everyday Lives
- **Workshop 1**: How Energy Moves: From Power Plants to Phones, Food, and Cities
- **Workshop 2**: Energy Stories: How Our Countries Imagine the Future of Power

a. Issues

Energy is part of almost everything we do, from charging our phones and using digital platforms to commuting, eating, studying, and cooling our spaces. However, many of us rarely think about where this energy comes from or what impacts it creates. For participants from different countries, energy also means different things: for some, it is about reducing emissions and changing lifestyles; for others, it is about access, affordability, and reliability.

b. What can we do about it

Through this theme, participants are invited to look at energy as something close to their everyday lives, not only as a technical or policy issue. By understanding how energy supports daily activities, they can reflect on their own habits, compare experiences across countries, and imagine more responsible ways of using energy.

c. Skill development

Participants will learn to map hidden energy use in daily life, think critically about consumption patterns, and communicate energy issues in ways that are simple, relatable, and meaningful for young people.



Key Themes

2 **People and Energy Futures: Connecting Global Goals with Local Realities**

- **Keynote Lecture:** Global Energy Goals, Local Realities: Building Sustainable Futures That Work
- **Workshop 3:** Youth Voices for Sustainable Energy Futures: From Awareness to Action
- **Workshop 4:** Ambitious, Inclusive, or Feasible? Designing Energy Solutions for Different Realities

a. Issues

Global energy and climate goals are shared across countries, but the realities of achieving them differ widely. Countries and communities begin with different resources, infrastructure, technologies, development priorities, and energy needs. While some are able to rapidly adopt new technologies, others continue to face challenges related to affordability, reliability, infrastructure, employment, and access. Sustainable energy solutions therefore need to respond to the realities of different places and communities.

b. What can we do about it

This theme encourages participants to connect global ambitions with local realities by asking practical questions: Who benefits from different energy solutions? What challenges or trade-offs may emerge? How can communities and stakeholders participate? And how can solutions be adapted to different economic, social, environmental, and infrastructural contexts?

Participants can better understand why energy solutions need to be ambitious, inclusive, locally relevant, and feasible at the same time.

c. Skill development

Participants will practise analysing different stakeholders, understanding trade-offs, and developing ideas that connect global climate and sustainability goals with economic realities, local contexts, and community needs.

Key Themes

3 Indonesia As An Energy Living Lab: Community, Innovation, And Circular Futures

- **Keynote Lecture**: Why Indonesia Matters: Local Energy Innovation for a Shared Future
- **Workshop 5:** From Waste to Watts: Community Innovation for Indonesia's Energy Future

a. Issues

Indonesia offers a unique place to learn about the future of energy. Its islands, communities, natural resources, cities, and infrastructure challenges create a very different energy story from many other countries. At the same time, Indonesia also has many local innovations, from geothermal energy and waste-based initiatives to community-driven solutions that show how sustainable energy innovation can emerge in practical and locally grounded ways.

b. What can we do about it

This theme brings participants closer to Indonesia's real energy context. Instead of only learning from lectures, they will see how sustainable energy solutions are developed and practised on the ground, including through local communities, renewable-energy sites, and circular economy initiatives. The goal is to show that innovation is not always about the most advanced technology, but also about solutions that are useful, affordable, and relevant to local needs.

c. Skill development

Participants will develop field observation, community engagement, and interdisciplinary thinking by connecting what they see on site with broader questions of sustainability, innovation, and social impact.



Outcome

By the end of the conference, participants will:

1. Develop a deeper awareness of how energy systems and future energy choices intersect with everyday life, technology, communities, cities, and the environment, recognising both opportunities and challenges across countries with different levels of development, resources, and infrastructure.
2. Strengthen their capacity to critically engage with energy challenges by applying systems thinking, ethical reasoning, problem-solving, and interdisciplinary analysis to renewable energy, affordability, access, waste, circular economy, innovation, and community-based solutions.
3. Gain first-hand insights into Indonesia's evolving energy landscape through field-based learning, including engagement with renewable-energy development, geothermal energy, community initiatives, circular-economy practices, and sustainability efforts that connect global goals with local realities.
4. Build meaningful connections across countries, disciplines, and communities, creating space for future collaboration among youth, universities, practitioners, and partners in advancing sustainable, innovative, and inclusive energy futures.



Activities

Day 1-2: Interactive Keynote Lectures and Workshops

The first two days will feature a series of keynote lectures and interactive workshops designed to introduce participants to contemporary energy issues and the possibilities of future energy systems. These sessions will help participants understand energy not only as a technical issue, but also as something closely connected to everyday life, communities, innovation, sustainability, and development.

- **Theme 1:** ***Energy and Me: Understanding the Hidden Energy Behind Everyday Life***
- **Theme 2:** ***People and Energy Futures: Connecting Global Goals with Local Realities***
- **Theme 3:** ***Indonesia as an Energy Living Lab: Community, Innovation, and Circular Futures***

Expected Outcome

Through these sessions, participants will be encouraged to reflect on their own energy experiences, compare energy realities across countries, and prepare for field-based learning in the following days.



Activities

Day 3: Partner Engagement with UN Indonesia

Participants will engage with UN Indonesia to explore how the future of energy connects with sustainable development, climate action, innovation, inclusion, and youth participation. This session will help participants understand how global sustainability goals can be interpreted and applied across different national and local contexts.

Activities include:

- **Interactive Session**: A discussion on sustainable energy, climate action, innovation, and development, with emphasis on how youth can contribute to inclusive and responsible solutions.
- **Youth Reflection Exercise**: Participants will compare energy challenges from their home countries and discuss how global goals can be translated into local action.
- **Group Discussion**: Participants will identify key social, environmental, economic, and technological considerations that should inform sustainable energy solutions.

Expected Outcome

Participants gain a clearer understanding of how energy connects with sustainable development and are able to reflect on their role as youth in translating global goals into meaningful local action.



Activities

Day 4: Site Event at Patuha Geothermal Site with PT Geo Dipa Energi

Participants will visit the Patuha geothermal site with PT Geo Dipa Energi to gain first-hand insights into geothermal development in Indonesia. The visit will allow participants to observe how renewable-energy infrastructure operates in practice and explore the connections among technology, natural resources, environmental considerations, local contexts, and sustainability goals.

Activities include:

- **Introductory Briefing**: PT Geo Dipa Energi will introduce the Patuha geothermal site, its role in Indonesia's renewable-energy development, and the basic process of geothermal energy production.
- **Guided Site Visit**: Participants will observe selected areas of the site, subject to safety and operational regulations, to understand how geothermal energy is managed in practice.
- **Field Observation Task**: Participants will identify the technical, environmental, social, economic, and stakeholder dimensions of geothermal-energy development.
- **Reflection Discussion**: Participants will discuss the opportunities, challenges, and contextual factors that shape geothermal development in Indonesia.

Expected Outcome

Participants are able to understand geothermal energy not only as a renewable technology, but also as a practical example of how Indonesia's natural resources, infrastructure, local context, and sustainability goals are connected.



Activities

Day 5: Community-Based Energy and Circular Economy Learning

Participants will continue their field-based learning by engaging with community-based initiatives related to waste, circular economy, composting, organic-waste processing, or local sustainability practices. This activity complements the geothermal site visit by showing that sustainable energy and environmental futures are shaped not only by large-scale infrastructure and technology, but also by everyday community action and local innovation.

Possible site focus:

- Waste bank and circular economy initiative.
- Community composting and organic-waste processing.
- Urban kampung with waste and environmental innovation.
- Community-based sustainability initiative in Bandung or surrounding areas.

Activities include:

- **Community Walk**: Participants observe how local communities manage waste, space, resources, and environmental challenges.
- **Hands-on Activity**: Participants take part in a simple waste-sorting, composting, or circular economy exercise.
- **Stakeholder Interview**: Participants speak with community members or facilitators to understand participation, challenges, benefits, and sustainability.
- **Problem Mapping**: Participants identify one local issue and connect it with broader questions of energy, sustainability, innovation, and community development.

Expected Outcome

Participants recognise local communities as important actors in sustainability and innovation. They will learn how practical, low-cost, and community-driven initiatives can contribute to broader environmental and energy goals. They will learn how practical, low-cost, and community-driven initiatives can contribute to broader environmental goals.

Activities

Day 6: Final Project and Closing Night

The final day will allow participants to transform their learning experiences into collaborative outputs. Drawing from keynote lectures, workshops, partner engagement, and field visits, participants will work in groups to develop youth-led ideas for sustainable and inclusive energy futures.

Final Project: Youth Energy Living Lab Challenge
Participants will develop a group project that responds to one of the challenges observed during the conference. Each group will be encouraged to combine at least three dimensions:

- Technology or infrastructure.
- Community needs.
- Environmental impact.
- Behavioural change.
- Business or financing model.
- Social inclusion.
- Youth participation.

The final project may take the form of:

- A policy recommendation.
- A community-energy concept.
- A circular economy initiative.
- A youth campaign.
- A social enterprise idea.
- A prototype or visual model.
- A short documentary or storytelling project.



Activities

Day 6: Final Project and Closing Night

Final Presentation

Each group will present its idea in a short pitch format. The presentation should include:

- The problem they want to address.
- The community or stakeholder is affected.
- The proposed solution.
- The role of youth.
- The expected impact.
- One practical step for implementation.

Closing Night

The conference will conclude with a closing night celebration that brings participants together to reflect on their learning journey, share cultural experiences, and strengthen the friendships and networks built throughout the programme.

As part of the reflection, participants will be invited to complete the sentence:

"The most important lesson that the youth can offer the world about the future of energy is..."



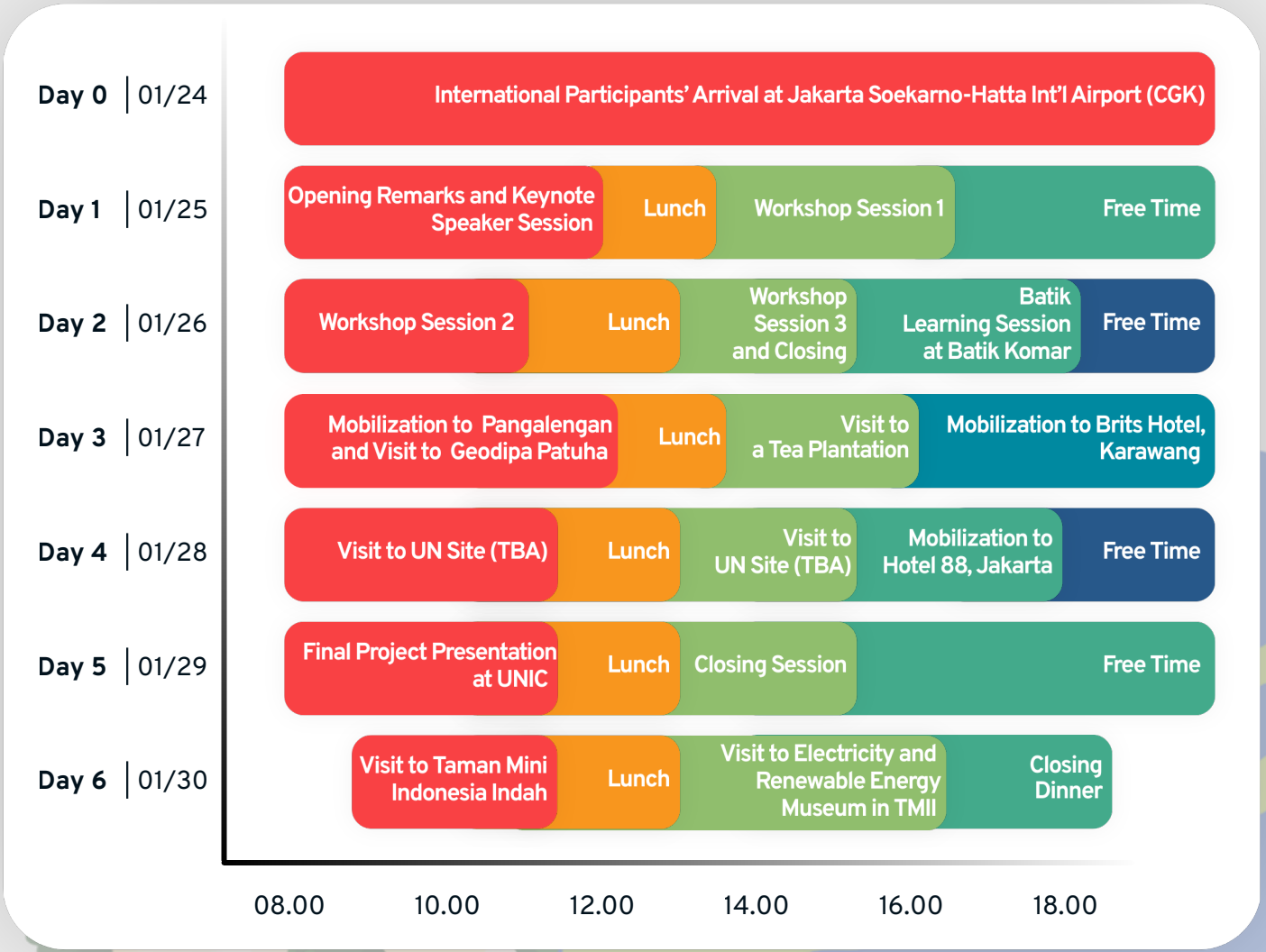
Conclusion

ISC 2027 highlights the important role of youth in shaping sustainable and inclusive energy futures. By connecting everyday energy use, technological innovation, sustainable development, renewable-energy infrastructure, and community-based initiatives, the conference offers participants a meaningful interdisciplinary and experiential learning journey.

Through collaboration with UN Indonesia, PT Geo Dipa Energi, local communities, academic experts, and other stakeholders, participants will gain the opportunity to connect global energy challenges with Indonesian realities. The conference aims to inspire young people not only to understand contemporary energy challenges, but also to contribute ideas, innovations, and practical solutions that respond to the diverse realities of communities around the world.



Rundown Overview



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