

NATIONAL SEMINAR GUIDEBOOK

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ABOUT US



Himpunan Mahasiswa Mesin Universitas Diponegoro is a student organization that serves as a platform for Mechanical Engineering students to grow through **academic development, leadership, innovation, and collaboration.**

As part of the **Department of Mechanical Engineering**, HMM Undip supports programs that strengthen **engineering knowledge, student creativity, and professional character.**

Through **Mech-ONE**, HMM Undip brings a new initiative to connect **students, academics, industry stakeholders, and young innovators** in one collaborative platform.

**Driven by engineering.
Built through collaboration.
Committed to future innovation.**



ABOUT

Mech-ONE



Mech-ONE 2026 or Mechanical Engineering Competition – Open National and International Event is a national and international-scale program initiated by Himpunan Mahasiswa Mesin Universitas Diponegoro.

THEME

“Advancing Renewable Energy Technologies for a Sustainable and Resilient Future,”

Mech-ONE is designed as a platform for students to **develop ideas, designs, and solutions** in renewable energy, mechanical engineering, and sustainable business.

Mech-ONE CONSISTS OF

THREE MAIN PROGRAMS

01

Mechanical Design Competition

Ocean renewable energy engineering design challenge.

02

Business Plan Competition

Renewable energy business solutions for coastal sustainability.

03

National Seminar

A national forum for knowledge sharing, discussion, and appreciation.

BACKGROUND OF THE EVENT

The transition toward **renewable energy** has become one of the most important movements in shaping a **cleaner and more resilient future**. As global energy challenges continue to grow, **innovation** is needed not only in technology, but also in the way ideas are designed, developed, and implemented.

At the same time, **coastal areas** such as Semarang face real environmental challenges, including **tidal flooding, land subsidence, waste issues**, and the need for more adaptive infrastructure. These conditions require solutions that combine **engineering, sustainability, and practical implementation**.

Mech-ONE is created as a response to that challenge. Through **mechanical design, sustainable business planning, and national discussion**, this event encourages students to transform **coastal and energy problems** into **future-oriented solutions**.

Where engineering minds turn energy challenges
into future solutions.

NATIONAL SEMINAR

This national seminar provides a platform for students, academics, and professionals to explore the **latest innovations and challenges in renewable energy development**. Through discussions led by industry experts, participants will gain insights into **sustainable energy technologies** and their role in shaping the future. Our theme:

“Renewable Energy for Sustainable Future: From Engineering Infrastructure to Technological Innovation”

Event Information:



Date : 26 September 2026



Time : 12.00–17.00 UTC+7



**Venue : ICT Center Universitas
Diponegoro**

SPEAKERS

National Seminar Speakers Exploring the energy transition spectrum from EPC infrastructure development to downstream smart manufacturing & EV ecosystems.



Ir. Bambang Sadewo IPU, ASEAN Eng., APEC Eng., CBM

President Commisioner PT. NIRANA ENERGI LESTARI

Engineering Indonesia's Energy Transition: Peran EPC dalam Membangun Infrastruktur Energi Berkelanjutan

Membahas kesiapan teknis, peta jalan proyek energi baru terbarukan (geothermal & bioenergi), tantangan eksekusi EPC, hingga penguatan TKDN dan SDM teknik dalam mewujudkan kemandirian infrastruktur energi nasional.

Ir. Hariono

Chief Executive Officer (CEO)
POLYTRON

Driving Hilirisasi: Inovasi Manufaktur Pintar dan Ekosistem Kendaraan Listrik untuk Masa Depan Berkelanjutan

Memaparkan inovasi manufaktur hijau melalui smart appliances hemat energi, ekspansi ke ekosistem kendaraan listrik (EV) dan stasiun penukaran baterai, serta peran industri hilir sebagai penyerap utama energi bersih nasional.



Ir. Nur Cahyo, M.T.

Researcher PT PLN (Persero) Pusat Penelitian dan Pengembangan Ketenagalistrikan

Road Map Pengembangan Energi Terbarukan dan Kebijakan PLN dalam Mendukung Transisi Energi Nasional

Membahas arah dan roadmap pengembangan energi terbarukan PT PLN (Persero), kebijakan dan program strategis dalam mendukung transisi energi nasional, serta peran penelitian, inovasi, dan tantangan implementasi energi terbarukan di Indonesia.



PARTICIPANT BENEFITS



NATIONAL E-CERTIFICATE

Receive an official e-certificate upon fulfilling the attendance requirements.



INDUSTRY INSIGHTS

Gain valuable knowledge from experienced professionals and industry leaders.



NETWORKING OPPORTUNITIES

Connect with fellow students, academics, and professionals from various institutions.



LATEST RENEWABLE ENERGY TRENDS

Explore current developments, challenges, and innovations in renewable energy.



INTERACTIVE DISCUSSION SESSION

Engage directly with speakers through an interactive Q&A session.



PROFESSIONAL DEVELOPMENT

Broaden your perspective and enhance your readiness for future engineering careers.

OUR VISION

"Empowering future engineers to drive innovation and accelerate the transition toward a sustainable energy future."

TIMELINE

Open Registration
14 September

Registration
14 - 21 September

Closed Registration
22 September

Announcement
23 September

Information Reminder
25 September

National Seminar
26 September

Registration Flow

Participants are required to complete the registration through the official Mech-ONE registration website. Please ensure that all information provided is accurate to facilitate the verification process.

<https://mech-one-2026-website.vercel.app>

Registration Information:

Category	Benefit
Regular	General Seating
Competition Finalists	Free of Charge
FORCE Participants	Included (No additional Fee)

Registration and Submission Procedure:

General Participants

1. Account Creation: Prospective participants create a Mech-ONE account.
2. Profile Information: Prospective participants fill out their personal details, such as name, institution, and a reachable WhatsApp number.
3. Questionnaire: Prospective participants receive 7 questions that must be answered as a requirement to join the national seminar.
4. Submission: Prospective participants submit their answers.
5. Selection Process: Prospective participants whose answers meet the criteria will be granted a national seminar quota.
6. Announcement & Group: Participants receive an email on the announcement day containing a WhatsApp group link and are required to join the group.

Important Notes

- Registration is conducted individually.
- Please ensure all submitted information is accurate before final submission.
- Registration confirmation and further technical information will be sent through the registered email and the official WhatsApp group.

Participant Guidelines

1. Before the Seminar

- Complete your registration and ensure your registration is confirmed.
- Prepare your registration confirmation/ticket.
- Arrive at the venue at least 30 minutes before the event.
- Check the seminar schedule and venue information beforehand.

2. During Registration

- Present your registration confirmation to the committee.
- Follow the registration and seating instructions provided by the committee.
- Keep your personal belongings secure.

3. During the Seminar

- Be respectful and attentive to the speakers and fellow participants.
- Keep your phone on silent mode during the sessions.
- Participate actively in the discussion and Q&A session.
- Follow the instructions given by the committee.

4. After the Seminar

- Complete the attendance or evaluation form, if required.
- Ensure your attendance has been recorded for e-certificate purposes.
- Check the official communication channels for further information regarding the e-certificate.

STILL CONFUSED?

Feel free to contact the CP from our Mech ONE Admin team.

Contact Person

 **WHATSAPP:**

CP 1: Sucaya

No. Whatsapp: 0823-1392-6443

CP 2: Dino

No. Whatsapp: 0822-8797-7369

Presented by

Himpunan Mahasiswa Mesin
Departemen Teknik Mesin
Universitas Diponegoro