

Organized by:



UNIVERSITAS GADJAH MADA  
FACULTY OF ENGINEERING  
DEPARTMENT OF NUCLEAR ENGINEERING  
AND ENGINEERING PHYSICS

Supported by:



Non-Aligned Movement  
Centre for South-South  
Technical Cooperation



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# THE 5<sup>TH</sup> INTERNATIONAL ENERGY CONFERENCE **ASTECHNOVA 2019**

Eastparc Hotel, Yogyakarta, Indonesia  
30<sup>th</sup>-31<sup>st</sup> October 2019

*"Energy Innovations and Sustainable Environment"*

**CALL FOR PAPERS**

## Topics:

- Oil and Gas
- Plant Engineering, Instrumentation, and Control
- Nuclear Engineering
- Integrated Energy System
- Waste to Energy
- Efficient Use of Resources
- New and Renewable Energy
- Nanotechnology Applications for Renewable Energy
- Modelling, Simulation and Forecasting of Energy and Carbon Markets
- Biomass and Bio-based Products
- Eco-design and Eco-efficiency
- Green Technologies and Sustainable Cities
- Climate Change and Global Warming
- Environmental Compliance
- Environmental Impact Assessment

## Student Awards for:

- Best Paper
- Best Poster Presentation
- Best Oral Presentation

Accepted papers will be published in AIP  
Conference Proceedings indexed by Scopus



Scopus<sup>®</sup>

## Important Dates:

Call for Papers	15 <sup>th</sup> March 2019
Extended Abstract Submission Deadline	1 <sup>st</sup> June 2019
Extended Abstract Acceptance Notification	30 <sup>th</sup> July 2019
Full Paper Submission	30 <sup>th</sup> August 2019

Submission Details:

<http://astechnova.ugm.ac.id>

Submission Portal:

<https://edas.info/index.php?c=25945>

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## **General Concept Note**

5<sup>th</sup> International Energy Conference ASTECHNOVA 2019: Energy Innovations and Sustainable Environment

Eastparc Hotel, Yogyakarta (Indonesia), 30 – 31 October 2019

&

1 November 2019 (Session of Field Trip)

### **1. Introduction**

Several major shifts are taking place in the energy demand with the rapid growth of world's population, particularly in the developing countries. However, current energy use has brought adverse impact on the environment and posed common threat to our humanity and our planet. Therefore, our future energy needs will require sustainable energy innovation. The innovation spans the complete spectrum of energy technology – production, distribution and consumption – while also increasing levels of energy efficiency through innovative approaches by optimising the use of local resources.

At the 18<sup>th</sup> Mid-Term Ministerial Conference of the Non-Aligned Movement (NAM) convened in Baku, Azerbaijan, from 5 – 6 April 2018 to address international peace and security for sustainable development, the Ministers adopted by consensus the Baku Declaration for commitment to full implementation of the 2030 Agenda for Sustainable Development, particularly affordable and clean energy, as captured in Sustainable Development Goal (SDG) 7.

In accordance with the SDG, the Non-Aligned Movement Centre for South-South Technical Cooperation (the “Centre”) with the support of the Universitas Gadjah Mada will organise the 5<sup>th</sup> International Energy Conference ASTECHNOVA 2019.

The Conference emphasises the importance of communication and the dissemination of innovative approaches towards environmentally-sound energy technologies, while showcasing outstanding knowledge management applications. Papers on issues related to innovation and policy measures in energy are welcomed. The ASTECHNOVA is held annually. During the past few years, the ASTECHNOVA has been attended by participants from China, Cuba, Cambodia, Japan, Malaysia, Nepal, Philippines, Singapore, South Africa, United States of America, Viet Nam and Venezuela.

### **2. Sessions**

The Conference will be organised around topics as follows:

- Integrated Energy System
- Oil and Gas
- New and Renewable Energy
- Nuclear Engineering
- Green Technologies and Sustainable Cities
- Modelling, Simulation and Forecasting of Energy and Carbon Markets
- Nanotechnology Applications to Renewable Energy
- Environmental Compliance
- Plant Engineering, Instrumentation and Control

- Biomass and Bio-Based Products
- Waste to Energy
- Climate Change and Global Warming
- Eco-Design and Eco-Efficiency
- Efficient Use of Resources
- Environmental Impact Assessment

*(a) Format*

Panel Discussion will include expert and academic panels, to be followed by interactive discussions. The panel will be moderated by academic from Universitas Gadjah Mada.

All selected papers will present their research orally. Selection of papers will follow a double-blind review process.

*(b) Participation*

The Conference will be open to participation by all member countries of the NAM. The Universitas Gadjah Mada has invited several entities from developed countries having received a standing invitation to participate as members of International Scientific Committee that conduct selection of papers. Also invited as member of International Scientific Committee is academic from Khalifa University, United Arab Emirates.

*(c) Contributions of Participants*

Abstracts or full papers related to the topics, as contained in number 2 to the General Concept Note, are invited for the Conference. All extended abstract and full paper must be submitted through Editor Assistant (EDAS) portal in <https://edas.info/doc/authors.html>.

Participants will be required to pay an Rp. 2,000,000 (equivalent to US\$143) registration fee for Students, and an Rp. 3,000,000 (equivalent to US\$214) registration fee for Professionals. This fee will be waived for panellists.

*(d) Sponsorship*

The Centre and the Universitas Gadjah Mada encourage NAM member countries and other potential donors to consider sponsoring the Conference. Sponsorship may be accepted from NAM member countries, inter-governmental organisations and philanthropic organisations. Please contact: Dwi Joko Suroso, Organising Committee of 5<sup>th</sup> International Energy Conference ASTECHNOVA 2019 ([dwi.jokosuroso@ugm.ac.id](mailto:dwi.jokosuroso@ugm.ac.id)).

### **3. Roles**

*(a) Role of Panellists*

Panellists will be selected due to their personal expertise on the relevant subject matter. They can provide examples of good practices and multi-stakeholder partnerships to participants for discussion and eventual consideration. They are asked to put forward some interesting and provocative interventions.

*(b) Role of Moderator*

The moderator must ensure the interactive nature of the panel. This may include posing some questions, allowing for time for replies, encouraging the panellists to discuss particular areas needing further discussion. In addition, the person would be expected to develop summaries. The moderator would be invited to share his or her overall impressions of the panel.

*(c) Role of Participants*

Participants are invited to express divergent viewpoints to the Panel Discussion session. Participants are also invited to listen carefully to all of the views expressed in the room. Participants should also present their research orally. Participants will have the possibility to have their papers published in AIP Conference Proceedings indexed by Scopus.

**4. Contributions by the Centre**

The Centre will provide speakers for the keynote speech session and international panellists for the Panel Discussion session.

In accordance with technical agreement between the Centre and the Faculty of Engineering, Universitas Gadjah Mada, financial contribution has been established for the Conference's Lunch Session and Field Trip.

**5. Field Trip**

On 1 November 2019, the Centre will organise field trip to Educational Forest and Agro-Tech Centre. During the Field Trip, appointed tour-guides will showcase down-streaming of research results and development products to daily life applications in surrounding local community. Participants from industrial and governmental sectors are encouraged to attend the Field Trip.

**6. Dedicated Website**

NAM member countries are strongly advised to regularly check in the website <http://astechnova.ugm.ac.id>.