



AUA Lecture Series 2022: Future of Energy

Tentative Program

October to December, 2022

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AUA Lecture Series

On 29 April 2017, the Asian Universities Alliance (AUA) was formally launched in Beijing. The founding of AUA marks a significant milestone in Asian higher education. It is a product of the common needs and shared expectations of the 15 founding universities.

In September 2021, AUA launched a joint online lecture series as an attempt and first step towards the long-term goal of an online shared course. In the first of the series, 15 eminent scholars from 13 leading universities in Asia addressed the challenges and opportunities of Asian economies in the post-COVID-19 era from various perspectives. Both the AUA students and the global audience gained a good level of understanding of different Asian economies. In addition, the AUA students enrolled in the program had an opportunity to study and have discussions with other students from Asia.

The Theme of AUA Lecture Series 2022

The theme of this year's lecture series is related to Sustainable Development Goal 7: Affordable and Clean Energy.

Energy is an important material basis and driving force for the progress of human civilization. The UN states that sustainable energy "transforms lives, economies and the planet" and that access to affordable, reliable, sustainable, and clean energy is critical to achieving many of the SDGs, especially mitigating climate change.

In reaching the targets for Goal 7, Asian countries developed their national energy strategies and energy policies based on domestic energy demand and the international energy situation. Asia has abundant and promising clean energy resources, which is an important foundation for achieving a clean, diversified, reliable and economical supply of energy in the future.

This year's lecture series will invite experts from each AUA university to introduce the energy strategies of their home countries, including scenario planning, and guide students and other attendees to rethink how to "ensure access to affordable, reliable, sustainable, and modern energy for all."

Lecture Format

The Lecture Series 2022 will start in October and last for 11 weeks, with two lectures per week plus a closing session. Each lecture is conducted by a member university and will consist of the following two parts:

- 1) Part A: a 50-minute public lecture;
- 2) Part B: a 40-minute freely-designed teaching session, which may include Q&A, interviews, group discussion, and any other innovative interactive teaching method.

The AUA Secretariat will record all the public lectures (Part A) and upload them to AUA's official website www.asianuniversities.org/lectureseries/. It is hoped that the lecture series could serve as a valuable public education product contributed by AUA.

Eligibility of participants

- 1) Undergraduate or postgraduate students who share an interest in energy policies, energy plans, and SDG.
- 2) Students who have an interest in the topics.

Schedule

- Date: Every Tuesday & Thursday, October 11th to December 15th, 2022
- Time: 18:00-19:30 (UTC+8)

	Date	Hosting University
1	11 October	Tsinghua University
2	13 October	United Arab Emirates University
3	18 October	Universitas Indonesia
4	20 October	Universiti Malaya
5	25 October	University of Colombo
6	27 October	The University of Tokyo
7	1 November	University of Yangon
8	3 November	Chulalongkorn University
9	15 November	The Hong Kong University of Science and Technology
10	17 November	Indian Institute of Technology Bombay
11	22 November	King Saud University
12	24 November	Nazarbayev University
13	29 November	Peking University
14	1 December	Seoul National University
15	6 December	National University of Singapore
16	15 December	Closing Session

Technological Requirements

ClassIn, an online teaching software, will be used for AUA Lecture Series 2022. AUA Lecture Series 2021 tried *ClassIn* for some of the lectures and received positive feedback from both students and lecturers. The tool provides easy access to all the learning resources of the program, including the live-broadcasting lectures, previous lectures, reading materials, assignments, and a chat space where students and lecturers may communicate at any time. The Secretariat will set up each lecture and the lecturers will be invited to the class to give lectures.

To participate in learning activities and complete assignments, students will need:

- Access to a working computer with the most current operating system and updates installed, and speakers or headphones to hear lecture presentations;
- Reliable Internet access and an email account;
- To download the *ClassIn* app and register an account prior to September 2nd, 2021;
- Microsoft Word; and
- Reliable data storage for your work, such as a USB drive.

If students do not have *ClassIn* already downloaded, please download the app on the OFFICIAL website <https://www.eeo.cn/en/>.

About Communication

Announcements regarding the program will be posted on *ClassIn* virtual classroom when necessary. If there is any other important information, the AUA Secretariat will email the students. It is the student's responsibility to ensure that their email account works properly in order to receive emails.

If students are having trouble accessing the lecture or learning material, please contact the AUA Secretariat via email at aua@tsinghua.edu.cn.

The students are encouraged to discuss with other participants in *ClassIn*'s virtual classroom before, during, and after lectures.

Assignments and Evaluation

Essays

An important goal of the lecture series is for students to develop the capacity for independent, analytical, and interpretive thought. Each lecturer will be invited to create one essay-question. Students will choose 2 of the 15 essay-questions and develop a 1000-word essay in response to each of these 2 questions. Both essays are required to be submitted to aua@tsinghua.edu.cn by 24:00 (UTC+8) on December 7th, 2022.

All written assignments should adhere to the following style guidelines in addition to the content requirement from each lecturer:

- Spacing: one and a half;
- Font: either Times New Roman or Arial in 12-point (size);
- Title of assignment centered on the first page, followed by student name and university in next line;
- Documentation for all references and quotations using APA style; and
- Accurate spelling and grammar.

Evaluation and Certificate

Upon completion of the program (final essays and attendance of $\geq 80\%$ of lectures), students will receive a certificate of completion. Certificates will be sent online to students' emails and the hard copies will be mailed upon request.

A select number of lecturers from the lecture seminars will be invited to evaluate student's essays and pick the top five essays. Once chosen, the respective students will receive acknowledgments and an additional certificate of excellence during the closing session.

We look forward to your participation!

Tentative Agenda

	Date	Hosting University	Title of the Lecture	Lecturer(s)
1	11 October	Tsinghua University	TBC	TBC
2	13 October	United Arab Emirates University	Energy Policy	Dr. Ahmed Hassan Noor Muhammad, Department of Architectural Engineering
3	18 October	Universitas Indonesia	TBC	TBC
4	20 October	Universiti Malaya	Malaysia Towards Achieving Sustainable Development Goal 7	Associate Professor Dr. Jeyraj Selvaraj, Deputy Director, UM Power Energy Dedicated Advanced Centre (UMPEDAC)
5	25 October	University of Colombo	Renewable energy: secure power for sustainable development in Sri Lanka	Prof. Mahendra Fernando, Department of Physics
6	27 October	The University of Tokyo	Coexistence of carbon neutrality and security for energy system	Prof. Ryuji MATSUHASHI, School of Engineering
7	1 November	University of Yangon	TBC	- Dr. Min Maung Maung, Professor, Department of Physics - Dr. Cho Cho Thet, Professor, Department of Physics
8	3 November	Chulalongkorn University	Smart Waterflooding: Fuel Energy from Zero Discharge Concept	Assistant Professor Falan Srisuriyachai, Department of Mining and Petroleum Engineering

9	15 November	The Hong Kong University of Science and Technology	Fuel cells and solid state batteries	Prof. Minhua Shao, Chair Professor, Department of Chemical and Biological Engineering; Director, HKUST Energy Institute
10	17 November	Indian Institute of Technology Bombay	Energy Sustainability and Climate Goals	Prof. A. B. Rao, Institute Chair Professor and Head, Centre for Technology Alternatives for Rural Areas (CTARA)
11	22 November	King Saud University	Using Sand to Harness and Store Solar Energy	Prof. Hany A. Al-Ansary, Mechanical Engineering Department
12	24 November	Nazarbayev University	Green Agriculture and Transportation: Kazakhstan Steps to Tackle Climate Change	Associate Professor Mehdi Bagheri, School of Engineering and Digital Sciences, Department of Electrical and Computer Engineering
13	29 November	Peking University	China's Energy Sector Transformation Against the Backdrop of Carbon Neutrality – An International Perspective	Dr. Xiang LI, Honored Associate Research Professor, Peking University Energy Institute
14	1 December	Seoul National University	Energy System Transformation for the Developing World	Dr. Sangook Park, Department of Science Studies
15	6 December	National University of Singapore	Energy strategies: The Singapore experience - a small, resource constrained and (single) fuel import dependent economy	Dr. David Clive Broadstock, Senior Research Fellow, Energy Economics Division Head, Energy Studies Institute
16	15 December	AUA	Closing Session	/