

## **“Eurasia Energy Outlook”**

A recent IPCC assessment report detailed the catastrophic effects of ongoing climate change. This strongly requires finding a rational and feasible combination of technical, economic and political tools to use the remaining window of opportunity to keep the temperature within 1.5°C. At the same time, reliable energy supply to the world's population remains a must.

The Central Asian countries have the potential to produce low-CO2 energy resources such as uranium, the potential to capture CO2 from fossil fuels, renewable energy sources (wind, solar energy, geothermal energy) and hydropower. These resources are unevenly located at the countries of Central Asia. They need cooperation to mobilize synergies and overcome problems related to borders.

What was previously achieved by the centralized planning of the resources of the former Soviet Union must now be achieved through mechanisms of cooperation, cross-border trade, contractual relations or the unification of markets, both with regard to energy and their impact on greenhouse gas emissions. The potential of additional hydropower, mainly in Kyrgyzstan and Tajikistan, can increase energy production from renewable sources, as well as convert periodic solar and wind energy into permanent energy. The existing CAES (Central Asian Energy System) is the starting point for the joint use of renewable energy sources in the region. In addition, the potential for CO2 sequestration in hydrocarbon-producing countries makes it possible to produce low-CO2 molecules in addition to renewable energy production.

The Summer School will bring together experts from Central Asian countries and from abroad to give participants a broad understanding of the current situation with energy supply and demand and decarbonization in the Central Asian region, analyze the potential for cooperation and obstacles to it, and discuss the development of cooperation.

## **Main Topics:**

1. Central Asia and international energy security;
2. The energy sector in Central Asia: current state and new trends;
3. Current and long-term trends in the energy markets of Central Asia (oil, gas, coal, renewable energy sources);
4. Decarbonization of Central Asia: from environmental problems to structural changes;
5. Energy transformation in Central Asia: local barriers and opportunities;
6. New energy routes;
7. Energy Geopolitics: Competition and Interaction with Russia and the growing role of China.

## **Energy-sector related places to visit:**

- Bystrov small hydroelectric power plants, Kyrgyzstan
- Kemin Substation, Kyrgyzstan

## **Partners:**

Bielefeld University of Applied Sciences, University of Rostock, Deutsch-Kasachische Universität, Landshut University of Applied Sciences, 50 Hertz GmbH

**Lecturers:** Stanislav Babich, Jens Haubrock, Michael Kranhold, Sandybaeva Aida, Okonov Samat, Alexei Kobzev.

<b>№</b>	<b>Date</b>	<b>Time</b>	<b>Event</b>
<b>1</b>	<b>1 Week 1 Day 12 August</b>	<b>8.00</b>	Arrival in Bishkek, meeting at Manas airport
		<b>9.00-10.00</b>	Accommodation in a hostel
		<b>11.00</b>	Opening of the program: Meeting with the Rector of the Scientific Research University Kyrgyz Econmoic University Kadyraliev A.T. Bishkek, 58 T. Moldo str.
		<b>12.00</b>	Getting to know the university. Meeting with the Vice-rector and heads of departments
		<b>13:00</b>	Lunch
		<b>14.00-18.00</b>	Bishkek City Tour
<b>2</b>	<b>2 Day 13 August</b>	<b>9.00</b>	Breakfast
		<b>10.00-13.00</b>	The energy sector in Central Asia: current state and new trends (Okonov Samat Melisbekovich, expert from CASA-1000 project)
		<b>13.00-14.00</b>	Lunch
		<b>14.00-17.00</b>	The energy sector in Central Asia: current state and new trends (Okonov Samat Melisbekovich, expert from CASA-1000 project)
<b>3</b>	<b>3 Day 14 August</b>	<b>9.00</b>	Breakfast
		<b>10.00-13.00</b>	Europe and Central Asia: energy, sustainable economy, ecology (Stanislav Vitalievich Babich, Guest Professor at KEU)
		<b>13.00-14.00</b>	Lunch
		<b>14.00-17.00</b>	Europe and Central Asia: energy, sustainable economy, ecology (Stanislav Vitalievich Babich, Guest Professor at KEU)
		<b>17:00-18:00</b>	Division into teams. Selection of research projects (Babich S.V., KEU; Kranhold M., 50Hertz; Haubrock J., BUPN)
<b>4</b>	<b>4 Day 15 August</b>	<b>9.00</b>	Breakfast
		<b>10.00-13.00</b>	Decarbonization of the electric power sector (Michael Kranhold, Director of Customer Management, 50 Hertz TransitionGmbH)
		<b>13.00-14.00</b>	Lunch
		<b>14.00-17.00</b>	Decarbonization of the electric power sector (Michael Kranhold, Director of Customer Management, 50 Hertz

			TransitionGmbH)
		17:00-18:00	Work on projects
5	5 Day 16 August	8.00	Breakfast
		09.00	Trip to Issyk-Kul region Visit • Bystrovskie small hydroelectric power plants, Kyrgyzstan
		13.00-14.00	Lunch
		17.00-18-00	Visit • Kemin Substation, Kyrgyzstan Arrival at Bosteri town Dinner
6	6 Day 17 August	9.00	Breakfast
		10:00	A trip to the Rukh Ordo Cultural Center, Museum of Petroglyphs, Cholpon-Ata city.
		16:00	Hybrid energy in the economic space of new transport corridors (Stanislav Vitalievich Babich, Guest Professor at KEU) mini-lecture
		19.00	Dinner
7	7 Day 18 August	10:00-	Breakfast
		13.00-14.00	Lunch
		17.00-18-00	Departure from Issyk-Kul region
8	2 неделя 1 Day 19 August	9.00	Breakfast
		10.00-13.00	Decarbonization strategies in Europe: the role of electricity and hydrogen (Jens Haubrock, professor, Bielefeld University of Applied Sciences)
		13.00-14.00	Lunch
		14.00-17.00	Decarbonization strategies in Europe: the role of electricity and hydrogen (Jens Haubrock, professor, Bielefeld University of Applied Sciences)
9	2 Day 20 August	9.00	Breakfast
		10.00-13.00	Central Asia and international energy security (Sandybayeva Aida Rysmatovna, Head of the Department of Electromechanics of KSTU named I. Razzakov)
		13.00-14.00	Lunch

		<b>14.00-17.00</b>	Energy transformation in Central Asia: local barriers and opportunities (Okonov Samat Melisbekovich, expert from CASA-1000 project)
		<b>17:00-18:00</b>	Working on Projects
10	<b>3 Day 21 August</b>	<b>9.00</b>	Breakfast
		<b>10.00-13.00</b>	Central Asia and international energy security (Sandybayeva Aida Rysmatovna, Head of the Department of Electromechanics of KSTU named I. Razzakov)
		<b>13.00-14.00</b>	Lunch
		<b>14.00-17.00</b>	Energy transformation in Central Asia: local barriers and opportunities (Okonov Samat Melisbekovich, expert from CASA-1000 project)
11	<b>4 Day 22 August</b>	<b>9.00</b>	Breakfast
		<b>10.00-13.00</b>	Decarbonization in Central Asia (TBA)
		<b>13.00-14.00</b>	Lunch
		<b>14.00-17.00</b>	Decarbonization in Central Asia (TBA)
		<b>17:00-18:00</b>	Working on Projects
12	<b>5 Day 23 August</b>	<b>9.00</b>	Breakfast
		<b>10.00-14.00</b>	Discussion with a representative of the Mayor's Office/Ministry of Transport
		<b>14.00-18.00</b>	Lunch  Discussion with a representative of the Mayor's Office/Ministry of Transport
		<b>18.00</b>	Dinner, free time
13	<b>5 Day 24 August</b>	<b>9.00</b>	Breakfast
		<b>10.00-14.00</b>	Presentation of the results of group projects  Closing ceremony and certificates delivery
		<b>14.00-18.00</b>	Lunch  A trip to the Ala-Archa National Park
		<b>18.00</b>	Dinner, free time
14	<b>6 Day 25</b>	<b>9.00</b>	Breakfast
		<b>10.00-13.00</b>	Visit to the ethnic complex "Supara"

	<b>August</b>	<b>13.00-14.00</b>	Lunch
		<b>14.00-17.00</b>	Shopping, buying souvenirs. Osh Bazar
<b>15</b>	<b>7 Day 26 August</b>	<b>9.00</b>	Breakfast and Departure



МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ  
КЫРГЫЗСКОЙ РЕСПУБЛИКИ  
НИУ  
«КЫРГЫЗСКИЙ ЭКОНОМИЧЕСКИЙ УНИВЕРСИТЕТ  
им. М.РЫСКУЛБЕКОВА»



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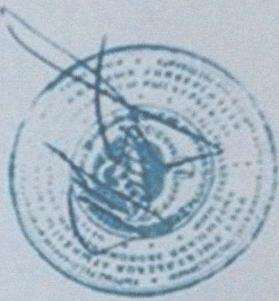
### Сандыбаевой Айде Рысматовне

НИУ КЭУ им.М.Рыскулбекова благодарит Вас за проведение занятий на высоком профессиональном уровне в программе Летней школы «Eurasia Energy Outlook».

Мы глубоко ценим плодотворное сотрудничество с Вами и надеемся на реализацию успешных проектов в будущем!

Кадыралиев А.Т.

С искренним уважением,  
Ректор НИУ КЭУ им. М.Рыскулбекова



Бишкек -2024 г.