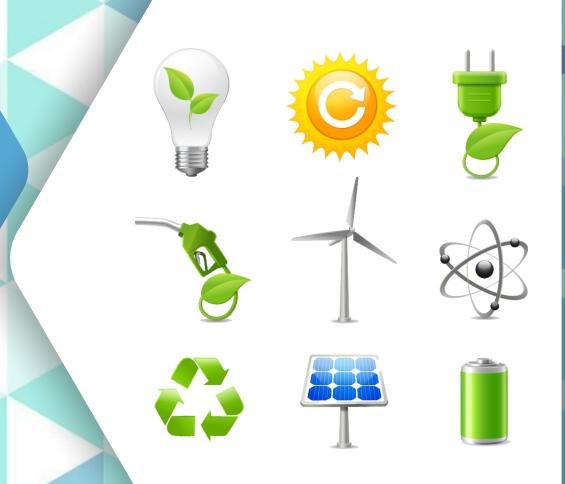
CONFERENCE PROGRAM

Rumi Hotel, 10 M. Tursunzoda str., Balkh and Hofiz Conference Hall Dushanbe, Republic of Tajikistan



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JUNE 24 - 26 2024

GOOD AFTERNOON, DEAR COLLEAGUES AND CONFERENCE PARTICIPANTS



On behalf of the Ministry of Energy and Water Resources of the Republic of Tajikistan, I am pleased to welcome you to the Regional Conference:

"Prospects for the Development of renewable Energy in Central Asian countries". I am convinced that this conference will serve as an effective and productive platform for discussing topical issues and tasks that will be promote the widespread development of renewable energy sources in the region. In the world in its own way Tajikistan has the sixth largest hydropower potential in the world, and the first in Central Asia.

More than 95 percent of Tajikistan's energy is based on hydropower.

Tajikistan's hydropower potential is three times higher than the current electricity consumption across the country. Central Asia. I would like to emphasize that in recent years we have been facing new challenges in the energy sector, which are mainly related to hydrological problems. Hydrological characteristics of the main rivers They play an important role in Tajikistan's energy sector and thus make this sector vulnerable to the negative effects of climate change, since the bulk of water for hydroelectric power plants is accumulated due to glaciers, the melting of which is observed at a rapid pace. Therefore, special attention is paid to the widespread use of renewable energy sources as a resource for diversifying generation sources. In the National Development Strategy of the Republic of Tajikistan until 2030, in the energy sector development section, the main indicators aimed at diversifying generation sources by 10% and additional generation of more The United Energy System of Central Asia". The completion of these projects will allow the transfer of green and clean energy from Tajikistan to the countries of the region, making a huge contribution to reducing harmful emissions, which fully corresponds to the latest climate trends. I express my gratitude to the organizers of the conference for the opportunity to meet with colleagues and wish all participants interesting and useful communication, new business contacts, jointly found solutions and successful projects!

REGIONAL CONFERENCE: «Prospects for Renewable Energy Development in the Republic of Tajikistan»

THE CONFERENCE PROGRAM MONDAY, June 24, 2024

Opening of the conference

Session I - CURRENT STATUS OF RENEWABLE ENERGY DEVELOPMENT IN CENTRAL ASIA AND ONGOING INITIATIVES TOWARDS GREEN ECONOMY (Conference Hall – Balkh)

Session II – CENTRAL ASIAN COUNTRIES RE DEVELOPMENT, STATUS AND CHALLENGES (Conference Hall – Balkh)

Session III – ESTABLISHING A GENDER COMMITTEE UNDER THE MINISTRY OF ENERGY AND WATER RESOURCES OF TAJIKISTAN (Conference Hall – Balkh)

THE CONFERENCE PROGRAM TUESDAY, JUNE 25, 2024

BALKH CONFERENCE HALL

Session IV–A. Prospects for the development of rooftop solar installations in Central Asian countries

Session IV-B. Implementation of solar initiatives by development partners in Tajikistan

Session V - Challenges and opportunities for integrating RES into the energy system. Moderator – Mr. Umarkhon Madvaliev. President of ARET

HOFIZ CONFERENCE HALL

Session VI- Regional Scientific Conference "Contribution of Scientists and Scientific Research to Promotion of Renewable Energy Sources in the Region".

CONFERENCE ROOM HOFIZ

CONFERENCE PROGRAMWEDNESDAY, JUNE 26, 2024

Session VI- International Scientific Conference "Status and prospects for the development of renewable energy in Tajikistan" (Conference Hall – Hofiz)



Agenda of the Regional Conference: "Prospects for Renewable Energy Development in the Republic of Tajikistan"

Day 1 – 24th June 2024, Monday

Time .	Session	Speakers
9:00 - 09 :30	Registration and coffee break	
Event Openin	ng (Conference Hall - Balkh)	
9:30 - 10 :15	Opening remarks	Moderator:
	Mr. Daler Jum'a - Minister of Energy and	M. Safarzoda, Deputy Minister of Energy and Water
	Water Resources of the Republic of Tajikistan	Resources of the Republic of Tajikistan
	Mr. Khushvakhtzoda Qobiljon – Professor,	
	President of National Academy of	
	Sciences of Tajikistan	
	Mission Director, USAID/ Tajikistan (TBD)	
V	Group Photo	
0:30 - 11:00	Coffee Break	
Session I - Cເ	urrent Status of Renewable Energy Developmer	nt in Central Asia and Ongoing Initiatives
owards Gree	en Economy (Conference Hall – Balkh)	
1:00 - 11:15	Country presentations:	Moderator:
	H. Badalov - Deputy Head of Investment	M. Safarzoda - Deputy Minister of Energy and Wate

Time	Speakers	Moderators
	Department of the Ministry of Energy and Water	Resources of the Republic of Tajikistan
11:15 - 11:30	Representative of Kazakhstan	
11:30 - 11:45	Representative of Kyrgyz Republic	
11:45 - 12:00	Representative of Uzbekistan	
12:00 - 13:00	Lunch	
Session II – (C	Conference Hall – Balkh) Central Asian countries RE d	evelopment, status and challenges.
	Panel session facilitated by UNDP Tajikistan	UNDP representatives
13:00 - 13:20	Mahinakhon Suleymanova - Executive Director,	Moderator:
	Neksigol Mushovir	Parvin Muminov – Project Manager, UNDP
	Topic - experience in biogas projects development	
	in Tajikistan	
13:20 - 13:35	Aziz Kembayev – Commercial Director	
	«Elcomtel», Kazakhstan	
	Topic – experience on installation of small scale	
X	RE technologies in Kazakhstan and Uzbekistan	
13:35 - 13:55	Parvin Muminov – Project Manager UNDP	
	Tajikistan GE Project	
	Topic – GE Project's results	
13:55 - 14:15	Yerlan Dairbekov – Project Manager	
	UNDP Kazakhstan	

Time	Speakers	Moderators
	Topic - Kazakhstan RE energy project, in particular	
	development small scale RE development:	
	financial instruments and by-laws development	
14:15 - 14:30	Representative of GIZ - Renewable Energy and	
	Energy Efficiency in Central Asia (REEE-CAS)	
	Topic –First project GIZ in Energy Sector	
14:30 - 14:45	Dilovar Mamurov – Executive Director	
	ARET Tajikistan	
	Topic – insights of RE market in Tajikistan	
14:45 - 15:00	Hokim Ghayurzod – Director CPO Bargi Sabz	
	Topic – activities completed under the GE Project	
15:00 - 15:30	Coffee Break	

Session III – USAID Power Central Asia Activity - RE development support in Tajikistan

Meeting opening and welcoming statements 15:30 - 17:30

Kholikzoda Mavjuda - former Deputy Minister of

Energy and Industry of the Republic of Tajikistan,

former Head of the State Energy Supervision

Authority of the Republic of Tajikistan

Bayan Abylkairova - Deputy Chief of Party, the

USAID Power Central Asia Activity. Development

of the draft of Bankable PPA in Tajikistan

Galiya Daniyarova - Communication and GESI

Specialist, the USAID Power Central Asia Activity

USAID Power Central Asia Activity: Gender Equality

and Social Inclusion Activities and Plans

Kudusov Mansur - Renewable Energy Zones

identification in Sugd region. Installation of the

LIDAR for wind measurement.

Nazira Haydarova - Association of Renewable

Energy of Tajikistan, Pamir Energy Company

Moderator:

Sharifa Khudobakhsh - Deputy Minister of Energy

and Water Resources of the Republic of Tajikistan

Time	Speakers	Moderators

Day 2 -	25th	June	2024,	Tuesday
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Session IV – Prospects for the development of rooftop solar installations in Central Asian
countries (Conference Hall – Balkh)

countries (Co	onference Hall – Balkn)	
	Panel Session facilitated by SECCA, EU	
09:00 09:20	Sorbon Kholmukhammadzoda, Deputy	
	Mayor of Dushanbe city.	
	Plans of the city of Dushanbe to provide alternative	Moderator: Paata Janelidze, Head of the
	energy to residential buildings, commercial	of the SECCA Project (Sustainable Energy
	and industrial facilities of the city.	Connections in Central Asia).
09:20 09:40	Ulugbek Umarov, Deputy Chairman of the	
	Committee on Architecture and Construction	
	under the Government of the Republic of Tajikistan.	
	Order of the Committee on Architecture and	
	Construction "on the use of solar electrical systems	
	in buildings and structures"	
09:40 10:00	Qurbonali Khayrullozoda, Head of the	
	Energy Department, Ministry of Energy and Water	
	Resources.	
	- RTS in Tajikistan. Solar energy development goals.	

Time	Speakers	Moderators
10:00 - 10:20	Representative of the Ministry of Energy of	
	Kazakhstan (TBD) Development of rooftop solar	
	installations in Kazakhstan	
10:20 - 10:40	Representative of the Ministry of Energy of	
	Uzbekistan (TBD) Development of rooftop solar	
	installations in Uzbekistan	
10:40 - 11:10	Coffee Break	
Session IV. Im	plementation of solar initiatives by development	partners in Tajikistan (Conference Hall – Balkh)
	Session facilitated by SECCA, EU	
11:00 - 11:20	Kudusov Mansur, SECCA Expert Potential of	
	rooftop solar installations in Dushanbe	
11:20 - 11:40	Darius Trauchiunas, SECCA Expert on Financing	Moderator: Usmonov Furugzod, SECCA Project
	Solar Installation Projects in Tajikistan	Coordinator in Tajikistan
11:40 - 12:00	Khokim Gayurzod, UNDP Expert, "UNDP	
	experience in financing rooftop solar installations	
	in Tajikistan"	
12:00 - 12:20	Khairullo Nazarzoda, Rector of the Tajik State	
	University of Commerce. "Universities' experience	
	in integrating renewable energy sources in	
	academic building."	

12:20 - 14:00 Lunch		
Session V - C	hallenges and opportunities for integrating RES into the energy system (Conference Hall – Balkh).	
Moderator - N	Ir. Umarkhon Madvaliev, President of ARET	
14:00 - 14:15	Jamshed Sirojev – Representative of Open Joint Stock Company "Shabakahoi Intiqoli Barq"	
14:15 - 14:30	Rumyantsev S. Yu., New principles of energy systems management: key provisions of the concept for the	
	development of the market for electricity storage systems in the Russian Federation	
14:30 - 14:45	Mozheiko N. M., New principles of energy systems management: Calculation of options for technical	
	solutions to problems of power quality and reliability of power supply	
14:45 - 15:05	Mr. David Wedepohl, German Federal Solar Association	
15:05 - 15:25	Mr. Christoph Urbschat, Director of Eclareon GmbH	
15:25 - 15:55	Coffee Break	
	Kazakhstan, Tajikistan ESR, ARET 50MW Solar PV plant	
16:00 - 16:15	Presentation of the ESR Company, USAID Subcontractor. Development of the PFS of 50 MW	
	solar station in Sughd region, Tajikistan.	
16:15 - 16:45	Goran Majstrović, European experience in power grid development to integrate large scale RE (online)	
18:00	Dinner	

Moderators

Time

Speakers

Time Speakers Moderators

Session VI- International Scientific Conference "Status and prospects for the development of renewable energy in Tajikistan" (Conference Hall – Hofiz)

	Panel Session facilitated by ARET	Moderator -	- Madvaliev U.
9:00 - 09:20	- Open scientific conference and welcome words		
	about the participant		
09:20 - 09:40	Vice-President of the National Academy of		
	Sciences of Tajikistan		
	Amonzoda Ilkhom Temur		
09:30 - 09:50	-Akhatov J.S. Research of the physicochemical		
	properties of a porous material based on		
	CeO2 for producing hydrogen using the solar		
	thermochemical cycle		
09:50 - 10:10	Madvaliev U. Current state and prospects for the		
	use of renewable energy sources in Tajikistan		
10:10 - 10:30	Obozov A. J. RES in the development of the fuel		
	and energy complex of the Kyrgyz Republic		
10:30 - 10:50	Saryev K. A. Scientific and technical substantiation		
	of the method of uninterrupted power supply to		
	decentralized consumers, with connection to the		
-	central power system using combined renewable end	ergy sources	

Time	Speakers	Moderators
10:50 - 11:10	Ilolov M. Maximum power point tracking using	
	adaptive NEURO-FUZZY inference systems for	
	the photovoltaic modules	
11:10 - 11:30	Coffee Break	
Те	chnologies and methods for increasing the effici	ency of solar energy systems
11:30 - 11:50	Komilov A.G., Nasrullayev Y.Z., Ahmadov Kh.S.	Moderator - Akhatov J. S.
	Thermal and flow dynamics of facade-mounted	
	PV panels system: a height-dependent CFD analys	is
11:50 - 12:10	Akhmadov Kh.S., Akhatov J.S. Heat and porous	
	analysis for cerium dioxide in thermochemical	
	hydrogen production	
12:10 - 12:30	Abdulkhaev O.A., Komilov A.G. Novel Technique	
	for Precise Efficiency Evaluation of Emerging	
	Solar Cells	
12:30 - 13:30	Lunch	
13:30 - 13:50	Asanova S.K., Halimov A.S., Akhatov J.S. Analysis	
	of Cosine Similarity in Renewable Energy	
	Integration and Optimization for Nearly Zero	
	Energy Buildings (nZEBs)	
13:50 - 14:10	Orazberdieva M.R. Opportunities for using microal	gae in alternative energy

Time	Speakers Mode	erators			
14:10 - 14:30	Jalilov D.Y., Juraev T.I., Halimov A.S., Akhatov J.S.				
	Enhancing thermal performance of parabolic trough				
	collectors using MWCNT-based nanofluids in				
	Uzbekistan's climate				
14:30 - 14:50	Jalilov D.Y., Juraev T.I., Halimov A.S., Akhatov J.S.				
	The impact of volumetric flow rate adjustments on				
	heat gain and temperature control in parabolic				
	trough collectors				
15:00 - 15:30	Coffee Break				
Sectional ses	Sectional session "Renewable energy sources and their integration"				
15:30 - 15:50	Khaitmukhamedov A.E., Abdulkhaev O.A., Mo	derator – Obozov A. J.			
	Samiev K.A., Avezova N.R. Assessment of energy				
	efficiency of parabolic trough solar concentrator				
	in Tashkent: technical and climatic aspects				
15:50 - 16:10	Juraev T.I., Jalilov D.Y., Halimov A.S.,				
	Akhatov J.S. Enhancement of thermal				
	performance of polymer-based solar collectors				
	using nanofluid				
16:10 - 18:30	Free time for discussions				
18:30	Dinner				

Time	Speakers	Moderators Moderators
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Day 3 - 26th June 2024, Wedne

Session VI (continue)-	International Scientific Conference "Status and prospects for the development
of renewable energy in	Tajikistan" (Conference Hall – Hofiz)

	Panel Session facilitated by ARET	Moderator – Makhsudov B. I.
9:10 09:30	Makhsudov B. I. Increasing the coefficient of	
	CdTe neutron absorption irradiation	
9:13 - 9:50	Juraev Sh.J. Methodology for selecting a source	
	of electrical energy using RES for power supply to	
	consumers in decentralized networks	
9:50 - 10:10	Kholov A. Creation of sensitized dye based on silicon	n
	carbide nanopowder synthesized by the method zol-g	gel
11:00 - 11:30	Coffee Break	

Sectional session "Technical and economic aspects and innovative approaches"

11:30 - 11:50	Nazirov Kh. B. Method for selection of optimal	Moderator – Nazirov Kh. B.
V	installed capacities of power stations of the energy	
	complex (WPP, SPP and SHPP)	
11:50 - 12:10	Sharifov B. N. Research of the possibilities of	
	artificial intelligence for the control of	
	photovoltaic installations	
12:20 - 13:30	Lunch	

Time	Speakers	Moderators
13:30 - 13:50	Kudusov M. A. Technical and economic	Moderator – Kholov A.
	justification of the use of solar energy when	
	installing panels on roofs of buildings	
	in Dushanbe	
13:50 - 14:10	Bakhromzod R. Assessment of Tajikistan's solar	
	and wind energy potential based on satellite data	
14:10 - 14:30	Domullojonov A. Solar dryer with heat	
	pump online	
14:30 - 14:50	Makhmudov Bekhruz. Analize of LIDAR datas	
	of Tajikistan	
15:00 - 15:30	Coffee Break	
15:30 - 15:50	Obidjoni Shakhobiddini Kuvatzoda.	Moderator – Kholov A.
	Energy efficiency of renewable heat extraction	
	using a vertical ground heat exchanger	
15:50 - 16:10		
18:00	Dinner	







Organizers

The conference is organized by the Ministry of Energy and Water Resources of the Republic of Tajikistan, National Academic of Science of the Republic of Tajikistan and Association of Renewable Energy of Tajikistan

Partners

The United Nations Development Programme (UNDP)

The European Union

The United States Agency for International Development (USAID)

The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)









