



# Supporting Renewable Technology Inclusive Heat Supply Legislation

Technical and Legal Consultancy /ADB TA 6564 KAZ

## Workshop 1 – Renewable Heating Technologies and Modern Heat Systems (case studies: system selection, policy reforms, lessons learnt)

1<sup>st</sup> July 2021, 14.00 – 17.00 local time in Nur-Sultan, Kazakhstan

**Objective:** Knowledge dissemination on modern renewable heat technologies that can be used in centralized as well as individual heating systems. Sharing of experiences and lessons learnt from heat sector reforms/modernization in a range of countries.

### DRAFT AGENDA

Time	Subject	Speakers
<b>Opening remarks</b>		
14:00-14:10	Opening remarks by Mr. Nariman Mannapbekov, ADB Country Director Mr. Kairat Rakhimov, Vice-Minister of Energy of the Republic of Kazakhstan	
<b>Experiences and lessons learned from the operation and reform of the heat sector in different countries</b>		
14:10-14:40	Integrated Operation System of the Korea District Heating Corporation  • Questions & Answers	Kap Rok, Han
14:40-15:15	Panel discussion: lessons from heat sector reforms <ul style="list-style-type: none"> <li>▪ Transition countries: challenges and models</li> <li>▪ Heat Supply in the Republic of Belarus: Status and Prospects</li> <li>▪ Lithuanian experience of heat sector reform</li> </ul> • Questions & Answers	Ilka Lewington Tatiana Pospelova Vidmantas Jankauskas
<b>International experience with Renewable Heat Technologies (centralized and individual)</b>		
15:15-15:30	Introduction presentation on international trends and technologies	Ole Johansen
15:30-15:55	Panel discussion: International case studies <ul style="list-style-type: none"> <li>▪ 100% renewable DH production</li> <li>▪ Stimulation of gas saving in the heat supply. Experience of Ukraine</li> </ul> • Q&A	Lennart Larsson Oleksandr Rogozin  All participants

<b>Experience of implementation of Renewable Heat Projects (centralized and individual)</b>		
15:55- 16:05	Introduction presentation on existing framework	Ainur Sospanova
16:05- 16:50	<p>Panel discussion: Kazakh implementation examples</p> <ul style="list-style-type: none"> <li>▪ PRO-ECO: office building heating and cooling by means of heat pumps</li> <li>▪ Installation of biomass-fired boilers in Northern Kazakhstan region</li> <li>▪ The experience of KunTech LLP in the field of solar thermal energy</li> </ul> <p>• Q&amp;A</p>	<p>Sergei Poleshchuk Adilbek Aubakirov Diyaz Baiseitov</p> <p>All participants</p>
16:50- 17:00	Closing remarks	Ministry of Energy

## Short biographies of speakers

**Speaker:** Mr. Kap Rok, Han  
**Country:** Republic of Korea  
**About the Speaker:** working career in Korea district heating corporation: 12 years; work experience type in Korea district heating corporation: operation/maintenance of facilities; current job: overseas business development for more than 1year.

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**Speaker:** Dr. Ilka Lewington  
**Country:** Germany  
**About the Speaker:** Dr. Ilka Lewington has more than 30 years' commercial, academic and consultancy experience in energy economics and regulation, specializing in energy sector reform in economies in transition. She has a profound understanding of the full range of issues facing the energy sector entities, governments and regulators during utility sector reforms, including in the heating sector. For the past 10 years she has focused on regulatory models for integrating renewable energy into the electricity and heating sectors, and has been part of the teams developing primary and secondary legislation for renewable energy support and energy markets, tariff methodologies, market and technical rules in Kazakhstan, Azerbaijan, Tajikistan, Serbia, Romania and Georgia. She is currently employed by VPC as Head of Markets & Regulation, and leads stakeholder engagement, capacity building as well as regulatory tasks in the current ADB project in Kazakhstan.

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**Speaker:** Dr. Tatyana Pospelova  
**Country:** Republic of Belarus  
**About the Speaker:** Doctor of technical sciences, professor. For more than 40 years taught at the Belarusian National Technical University in the departments of energy and environmental profile and management. For more than 10 years she was a member of the expert council on energy of the Higher Attestation Commission of the Republic of Belarus. She has many years' experience of participation in international and national projects in the fields of energy policy, energy saving and renewable energy. Currently, she is the chief scientific consultant of the Engineering Consulting Company ALC ENECA and also works as an independent expert on international projects.

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**Speaker:** **Mr. Vidmantas Jankauskas**

**Country:** Lithuania

**About the Speaker:** Vidmantas Jankauskas studied at the Vilnius University and worked for twenty years at the Lithuanian Energy Institute, researching energy economics. During that period he received his doctorate and doctor habilitation scientific degrees, published more than 100 scientific articles and several books. In 1997 he was appointed by the President of Lithuania as a Chairman of the National Control Commission for Prices and Energy, the independent energy regulator, and served there for two 5 year terms. After finishing his second term as a regulator from 2008 until today Vidmantas is working as an international energy regulatory expert, mostly in the CIS and Central European countries, advising energy ministries, energy regulators and other energy sector stakeholders on energy regulatory reform for transition countries, training energy regulators on energy policy and market regulation subjects

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**Speaker:** **Mr. Ole Johansen**

**Country:** Denmark

**About the Speaker:** Ole Johansen is a leading expert in energy planning, gas and power transmission, district energy, market analysis, design and optimization of CCGT's and CHP's. He's experience is gained over 30+ years of involvement in energy infrastructure projects internationally. He has excellent knowledge of the procedures and requirements of EC and IFIs working extensively with EBRD, EIB, KfW, World Bank and EC.

Ole Johansen has extensive experience as expert on international and multi-country energy projects, mostly involving dialogue with governments and ministries. He also has excellent understanding of economic and political environment and full familiarity with relevant stakeholders involved in project development.

Since 2007 he has been working in the Western Balkans as Key Energy Expert / Senior Project manager under WBIF IPF2 (Energy Key Expert), WBIF IPF3 and IPF4 (Senior Project Manager), and currently in CONNECTA under DG NEAR as Key Energy Expert.

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**Speaker:** **Dr. Lennart Larsson**

**Country:** Sweden

**About the Speaker:**

Dr Lennart Larsson is an internationally well known expert on Energy system planning and on Deregulation of Energy Markets. He took his Masters Degree in 1976 with focus on Thermal Engineering and Energy Planning and he got his Doctors Degree at the University of Lund in 1983 with focus on Energy Economics and Planning.

His focus has always been on Long term Energy system development with sub areas as Price, Demand and Market forecasts, System expansion and System operation, Security of Supply and on Energy Business Development.

He is one of Sweden's leading experts on Deregulation of Energy Markets and he is also a known speaker on conferences on the subjects mentioned above.

He has experiences from several countries in Europe and from Mexico, Nicaragua, Colombia, Uruguay, Zambia, Zimbabwe, Mozambique, Egypt, Tanzania, Saudi Arabia, Dubai, Armenia, Thailand, Philippines, Vietnam, Laos, Cambodia, Malaysia, Indonesia, Mongolia and Azerbaijan.

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**Speaker:****Mr. Oleksandr Rogozin****Country:**

Ukraine

**About the Speaker:**

Alexander Rogozin was born in 1961 in Taganrog. He received higher education at Donetsk Polytechnic Institute (electrical engineer, 1983) and Donetsk State Academy of Management (economist, 1998). He defended his doctoral thesis in Kyiv Polytechnic Institute (1993), specializing in "Electrical networks, systems and control systems". He began his career in 1983 in Gorlovka, where he worked his way up from engineer to Deputy Director of Donbass power system of NEC Ukrenergo - Chief Inspector of Donbass power supervision. He served as Chairman of the NCREPIU (Energy Regulator of Ukraine, 2006-2007), director of Energorynok SE (wholesale market operator of Ukraine) (2007-2008), vice president of NJSC Energy Company of Ukraine (holding company for management of energy companies with state participation, 2008-2011), member of the NCREPIU (2011-2014). Since 2015 - Vice-President of the GS "First Energy Association of Ukraine". Consultant on energy and regulatory issues (Azerbaijan, Belarus, Tajikistan and Ukraine).

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**Speaker:****Mrs. Ainur Sospanova****Country:**

The Republic of Kazakhstan

**About the Speaker:**

Sospanova Ainur Saparbekovna, graduate of the Tselinograd State Pedagogical Institute, specialty "Mathematics and Physics", graduate of the Eurasian National University, specialty "Information and Communication Technologies".

20 years of experience in IT.

12 years of experience in RES.

9-year experience of public service, she was the Head of RES Department of the Ministry of Energy of the Republic of Kazakhstan.

Participated in development of Kazakhstan's concept of transition to green economy, one of the developers of amendments to the law to support the use of RES in the RK (fixed tariffs, introduction of Financial Settlement Centre, auction mechanism of RES).

At present she is the Chairman of the Board of Solar Power Association of Kazakhstan, she develops her business in consulting, being the director of Smart Volt company. Also, at JSC NC KazMunayGas, she is a RES expert in the Project Office for Low-Carbon Development.

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**Speaker:**

**Mr. Sergey Poleshchuk**

**Country:**

The Republic of Kazakhstan

**About the Speaker:**

Sergey Vasilyevich Poleshchuk was born in 1969 in Shakhtinsk. He graduated from the Leningrad Institute of Precision Mechanics and Optics (Thermal Physics Engineer, 1992) and the Themis Law Academy (Lawyer, 2002). He started his working career in 1992 at Ak Tolkyn JSC as a deputy chief power engineer.

Since 1996 - General Director of "Ergonomics" Ltd. He was Deputy of the city Akimat of Shakhtinsk (2004-2008), Advisor to the Akim of Karaganda region on Energy Efficiency (2010-2011), Deputy of Karaganda region Maslikhat. (2011-2015), member of regional council of NCE Atameken (2019).

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**Speaker:**

**Mr. Adilbek Aubakirov**

**Country:**

The Republic of Kazakhstan

**About the Speaker:**

Adilbek Bagdatovich Aubakirov was born in 1984 in the North Kazakhstan region, in 2001-2006 and in 2009-2012 he studied at the North Kazakhstan State University named after Kozybayev and received qualifications of an engineer and a lawyer. He began his career in 2004 as the head of "Aubakirova M.K.", in 2006-2007 he worked as a specialist in "Sevkazaudit" LLP and as a manager in "Politrend Astana" LLP. Since 2008 and up to now he has been working in the Department of Energy

and Housing and Communal Services of the North Kazakhstan region, since 2018 he has been the Head of the Department.

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**Speaker:** **Mr. Diyaz Baiseitov**

**Country:** The Republic of Kazakhstan

**About the Speaker:** Diyaz Bayseitov, MSc, PhD. Graduated from Warwick University under the "Bolashak" program. He worked in the sphere of science, education, start-ups in the field of green technologies: headed Technopark of Nazarbayev University with the pilot testing ground of renewable energy, was at the origins of the corporate R&D Laboratory of BI Group holding in the sphere of innovation in new materials, energy saving and smart solutions, until recently worked as Director of Innovation and Technology Transfer Department of International Center for Green Technologies (ICGTIP). Initiator of the first domestic production of solar collectors under the KunTech brand. Winner of EXPO-2017, finalist of CleanTech Open 2017 (USA), DENA SET2018 (Germany), bearer of the rating "Top 10 Innovative Companies of the Country" from NATR JSC, winner of the title New Energy Leader 2018 from Asian Development Bank and "Eco Entrepreneur of the Year" from the Association of Environmental Organizations of Kazakhstan for popularization of clean energy sources in the country. Now he represents in the region the international financial fund PFAN (based on UNIDO), aimed at the selection, advisory support and long-term concessional financing of projects in the field of renewable energy. Since 2021 he is the Executive Director of Kazakhstan Green Building Council "KazGBC".