KAZAKHSTAN

Workshop on Least Cost Generation Planning

On November 20-22, 2018 USAID Power the Future Regional Program (PtF) conducted a workshop on Least Cost Generation Planning (LCGP) in Astana. The event focused on macro and micro economic concepts, demand forecasting, integrated generation, transmission planning, tools and scenario formulations. The representatives from the Ministry of Energy, Financial Settlement Center (FSC), JSC “Kazakhstan Electricity Grid Operating Company” (KEGOC), JSC “Kazakhstan’s operator of the market of electric energy and power” (KOREM), JSC “Samruk Energy” and other project counterparts attended this workshop. Participants discussed the model assumptions, scenarios and agreed to provide additional data to improve modelling results. Read more...

Stakeholder workshop on Renewable Energy integration

On November 29, 2018 PtF held stakeholder workshop on renewable energy (RE) integration in Astana. The workshop participants included representatives from the Ministry of Energy, FSC, KEGOC, KOREM, Samruk Energy, the Almaty University of Power Engineering and Telecommunications (AUPET). The attendees had an opportunity to review results, challenges and opportunities of the RE auctions in Kazakhstan, as well as to discuss LCGP, RE grid integration issues and modeling, and assessment of Kazakhstan’s RE resource potential.
Training on RE grid impact study in Astana

**On December 4-7, 2018** PtF conducted on-job training and follow up meetings on RE grid impact study in Astana. As a result of these meetings KEGOC approved scenarios for 2018 to run the load flow analysis. The unified energy system (UES) of Kazakhstan will be modeled using the software package PowerFactory (DigSILENT). The analysis will be conducted for the 2018 (baseline), 2020, and 2023 in order to analyze the RE auctions impact on system operations.

Capacity building workshop on unit commitment and dispatch analysis

**On January 15-18, 2019**, PtF and US National Renewable Energy (NREL) conducted a four-day workshop on RE Grid Integration Study, System Operations and Dispatching. This event was organized as a follow up on NREL’s research on the capacity of Kazakhstan’s grid to absorb 2500 MW of RE by 2020. FSC and KEGOC believed that the model needs to be verified and suggested to continue simulation of different scenarios with consideration of commercial and institutional constrains. The main objective of the four-day session was to train FSC and KEGOC on using Plexos modelling tool and to transfer NREL’s model under RE Grid Integration Study of Dispatching.

Empowering females in the energy sector

**On November 2, 2018** PtF and UNDP jointly organized a study tour to the first Wind Power Plant in Ereimentau city. Forty female participants from PtF’s key stakeholder organizations and female students from three universities of Astana participated in the study tour. The trip was aimed at expanding networking, sharing experiences, promoting women’s participation in clean energy education, supporting young female students and promoting their employment in the energy sector. Read more...

During previous events organized by PtF the participants discussed lack of women’s leadership in the energy sector of Kazakhstan. To address this issue, **on January 19, 2019** PtF held a workshop on public speaking and presentation skills for female students of School of Engineering at Nazarbayev University. The workshop was geared towards empowering women in technical fields of study to have the skills and confidence to convey their ideas creatively and concisely. Read more...

REGIONAL ACTIVITIES

**Activities under RE Curriculum for AUPET**
On November 12-13, 2018 PtF conducted a two-day workshop on solar and wind energy at AUPET. Professors and PhD students of AUPET discussed topics such as fundamentals of solar and wind markets, technical aspects, resource evaluation and risk mitigation. The workshop allowed to discuss the existing solar and wind curricula of the University and the project implementation-oriented training developed by PtF on solar and wind technologies to support lecturers and trainers at university level. With more than 50 participants, the professors and students of the University, discussed topics such as fundamentals of solar and wind markets and technical aspects, resource evaluation, risk mitigation, and engineering principles. In order to ensure the long-term impact of these efforts, PtF and AUPET agreed that the program, presented at the workshop, will be incorporated into the curriculum of the university. 

On January 8-21, 2019, PtF completed a five-day long workshop on the methodology of the RE disciplines teaching at AUPET. The main objective of this workshop was to present the teaching methodology of the renewable energy sources (RES) training course. The academic staff of AUPET and other universities of Central Asia had an opportunity to discuss the most important aspects necessary for teaching subjects of RE in higher educational institutions. The workshop aimed to assist in the training of highly qualified specialists and the development of a modern course on RE.

As of January 30, 2019, AUPET working group continued implementation of RE study course developed by PtF. Updated approach includes integration of PtF study course materials in 10 disciplines of 2nd, 3rd and 4th grades instead of 6 disciplines suggested at the 1st working group meeting.

Uzbekistan: Workshop on impact of RE on the grid

On December 10-11, 2018 PtF conducted workshop on impact of RE on the grid. The event offered an opportunity to share Kazakhstan’s experience in implementation of the RE projects to create environment conducive for investment in RE. During the workshop representatives of UzbekEnergo, Ministry of Economy, Ministry of Innovative development, Academy of Sciences, International Solar Institute, Coordination Dispatch Center “Energia” and other counterparts discussed the most sensitive issues related to regional and national RE development plans. Following the agreement of participant organizations, PtF will provide advisory support to grid code, requirements for RE equipment, system study for different energy sector development scenarios and research on RE impact. PtF will also support in development of legal and regulatory framework for RE, development of the tariff methodology and licensing procedures, support to the international funding of RE projects, RE auctions support and net-Metering.

Uzbekistan: Agency for the Development of RE under the Cabinet of Ministers
In October 2018 PTF offered RE working group recommendations on RE legislation and establishment of RE Authority in Uzbekistan. On December 2018, a draft Decree of the President of the Republic of Uzbekistan “On organization of activities of the Agency for the Development of Renewable Energy under the Cabinet of Ministers of the Republic of Uzbekistan” and “On measures for further development of renewable energy sources” was issued.

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