

Second Project Steering Committee Meeting

19 April 2023

Sheraton Astana Hotel, Kazakhstan

SECCA - Progress during the 3rd and 4th periods

Content of presentation



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General information on SECCA (1)

Sustainable Energy Connectivity in Central Asia (SECCA):

EU-funded regional cooperation project between the European Union and its partner countries in Central Asia in the field of sustainable energy

Partner countries:

Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan



General information on SECCA (2)

- **Contracting Authority:** EU Delegation to Kazakhstan
- **Contract amount:** 6,800,400 EUR
- **Duration:** 48 months starting 15 March 2022
- **Implemented by:**
 - STANTEC sa/nv in consortium with
 - Intec-GOPA (International Energy Consultants)
 - ACTED
 - Florence School of Regulation (FSR) - Energy

Project milestones

- 15 March 2022 Project start date
- 29 March 2022 Kick off meeting (Astana, Kazakhstan)
- 25 October 2022 Approval of the Inception report
- 17 November 2022 Launching event (Samarkand, Uzbekistan)
- 4 April 2023 1st meeting of the Project Steering Committee (PSC)
- 14 April 2023 Submission of 1st Progress Report (PR) covering the 2nd period (15 September 2022 – 14 March 2023)
- 18 October 2023 Submission of 2nd PR covering the 3rd period (15 March 2023 – 14 September 2023)
- 10 April 2024 Submission of 3rd PR covering the 4th period (15 September 2023 – 29 February 2024)

Project Steering Committee (PSC)

Objective of PSC:

To oversee and validate the overall direction of the project

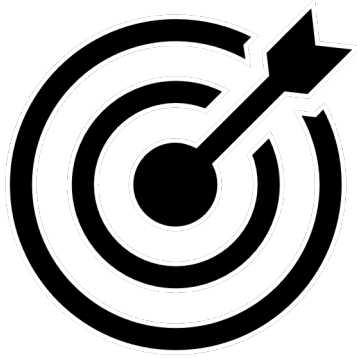
Today's focus:

- Progress achieved since the 1st PSC meeting (held on 4 April 2023 in Astana)
 - 3rd period (15 March 2023 – 14 September 2023)
 - 4th period (15 September 2023 – 29 February 2024)
- Activities planned for next 6 months (1 March 2024 – 31 August 2024)



PROJECT OBJECTIVE AND OUTPUTS

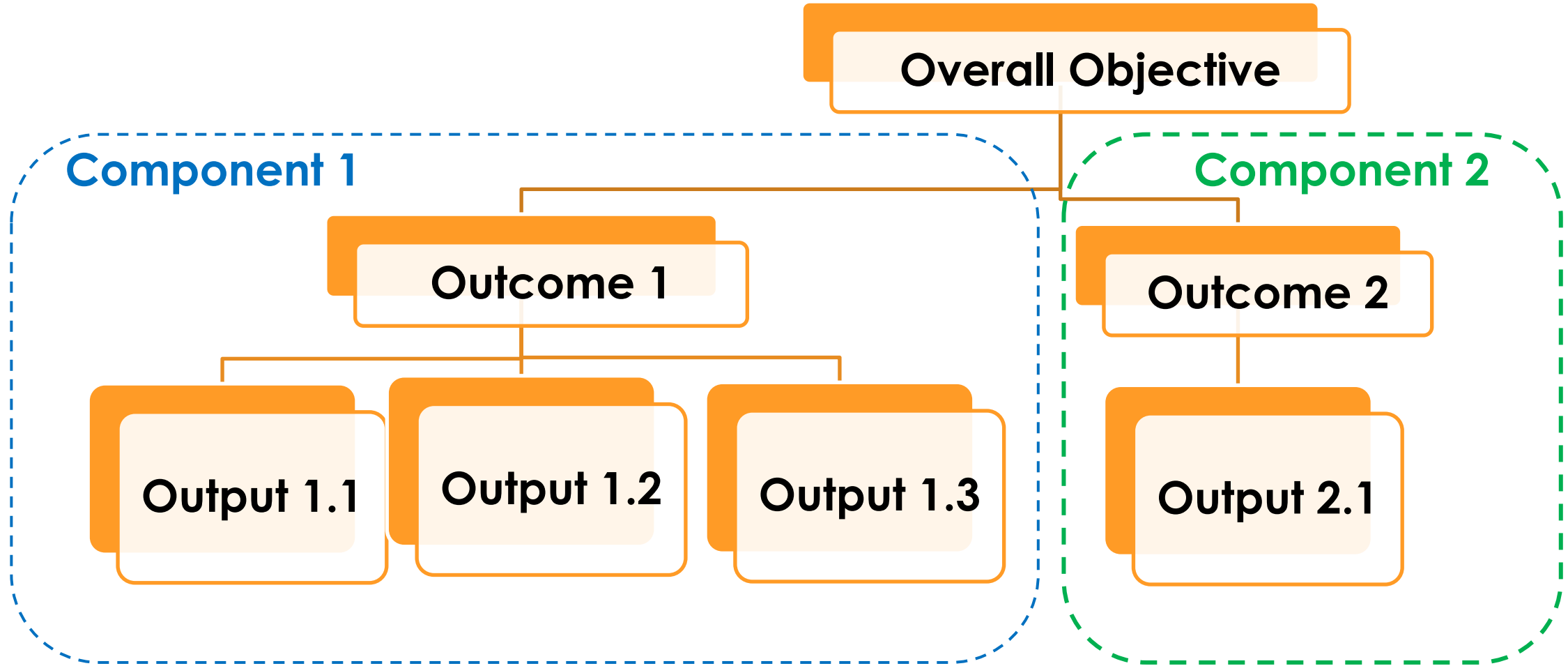
Project objective and outputs (1)



Overall Objective:

to promote a more sustainable energy mix in the Central Asia region in line with EU best practices

Project Objective and Outputs (2)



Expected Outputs: Component 1

COMPONENT 1:

Policy, regulatory and institutional framework for the transition by each Central Asian country to a sustainable energy system

Outcome 1: Strengthened and more inclusive policy, regulatory and institutional framework for the transition to a sustainable energy system, within a regional context

Output 1.1: Strengthened public capacities for governance, strategy development, gender inclusive policy design and regulatory framework for EE and RE deployment

Output 1.2: Public awareness raised on EE and RE importance and technology

Output 1.3: Strengthened capacities for management of energy data, information and modelling

Expected Outputs: Component 2

COMPONENT 2:

Promotion and facilitation of investment, capacity and awareness in sustainable energy in the CA Region

Outcome 2: Increased investment, capacity and awareness in sustainable energy in the CA region

Output 2.1: Enhanced identification and accessibility of EE and RE investment projects, and the most appropriate technologies and innovative financing mechanisms taking into account equal opportunities, and fair and effective participation of women



STAKEHOLDER ENGAGEMENT



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Stakeholder Engagement (1)

Designation of “State Partners” by the Beneficiary Countries

- Kazakhstan - Ministry of Energy
- Kyrgyzstan - Ministry of Energy
- Tajikistan - Ministry of Energy and Water Resources
- Turkmenistan - Ministry of Energy
- Uzbekistan - Agency for Strategic Reforms

Stakeholder Engagement (2)

Establishing the effective collaboration with the EU Delegations to the Beneficiary Countries

- Kazakhstan - Mr. Johannes Baur, Mr. Robert Brudzynski
- Kyrgyzstan - Mr. Bakyt Aituganov
- Tajikistan - Mr. William Lindberg
- Turkmenistan - Ms. Renata Wrobel
- Uzbekistan - Mr. Alexander Zenebe

Stakeholder Engagement (3)

For continuous dialogue and proper planning & implementation of activities in Beneficiary Countries

- **Missions to the countries** - Consultations with stakeholders, discussing Scope of Work (SoW) of TA, planning and conducting events
 - Kazakhstan - SECCA Team is based in Astana, Kazakhstan
 - Kyrgyzstan - 5 missions (9-18 and 25-28 May, 1-7 October, 26 November-2 December 2023, 4-9 February 2024)
 - Tajikistan - 4 missions (6-11 June, 28 June - 7 July, 21-27 October 2023, 13-23 February 2024)
 - Turkmenistan - 3 missions (11-19 March, 11-16 September, and 10-21 December 2023)
 - Uzbekistan - 4 missions (22-27 June, 9-13 July, 15-21 October 2023, 26-29 February 2024)



PROGRESS ACHIEVED DURING THE 3RD AND 4TH PERIODS (15 MARCH 2023 – 29 FEBRUARY 2024)

Progress achieved and planned – by Outputs

Output 1.1 (1)

Activity	As of March 1, 2024	Next 6 months
1.1.1. Providing assistance in the development of regional and country-specific frameworks for gender and climate sensitive EE and RE policies	Ongoing	Ongoing
1.1.2. Support in the development and establishment of an EU-Central Asia Sustainable Energy Centre (CARSEC)	Not started	Planned for 2025
1.1.3. Engagement of representatives of Central Asian countries in periodic high-level policy dialogue and technical meetings with the EU	Ongoing	Ongoing
1.1.4. Assistance in the development and enforcement of country-specific NREAP and NEEAP	Ongoing	Ongoing
1.1.5. Furnishing country-specific technical assistance related to the development, harmonization and enforcement of MEPS and labels for electrical appliances and buildings	Not started	Planned for Q4 2024



Progress achieved and planned – by Outputs

Output 1.1 (2)

Activity	As of March 1, 2024	Next 6 months
1.1.6. TA in energy auditing for sustainable/climate-proof buildings and industry	Ongoing	Ongoing
1.1.7. Capacity building for EE/RE	Ongoing	Ongoing
1.1.8. Provision of trainings for eligible institutions in the development, planning and implementation of projects in the framework of Horizon Europe	Planning	Ongoing
1.1.9. Organization of EU-CA country Sustainable Energy Days	Ongoing	Ongoing
1.1.10. Raising awareness on the benefits of the transition into more sustainable and gender-inclusive energy systems	Ongoing	Ongoing
1.1.11. Providing assistance to CA countries in benefiting of opportunities provided by the Paris Agreement	Ongoing	Ongoing



Not started



Planning



Ongoing



Completed

Progress achieved and planned – by Outputs

Output 1.2

Activity	As of March 1, 2024	Next 6 months
1.2.1. Increasing the exposure of CA universities to EE knowledge	Planning	Ongoing
1.2.2. Developing an outreach plan for policy-makers on regional and country-specific energy modelling	Planning	Ongoing
1.2.3. Promoting EE and RE for further target groups through the production and online publication of short videos and short reports on good practices	Planning	Ongoing



Not started



Planning



Ongoing



Completed

Progress achieved and planned – by Outputs

Output 1.3

Activity	As of March 1, 2024	Next 6 months
1.3.1. Furnishing technical assistance for improving regional and national statistical data and information	Ongoing	Ongoing
1.3.2. Promoting information sharing among the CA countries	Ongoing	Ongoing
1.3.3. Strengthening the accuracy of SDG7 reporting in the creation of future sustainable energy policies	Planning	Ongoing
1.3.4. Developing comprehensive national energy system databases	Not started	Planning
1.3.5. Furnishing technical assistance for the development of a Regional Central Asia Energy Model	Ongoing	Ongoing
1.3.6. Assessing the feasibility for a HVDC back-to-back link between the CA countries	Ongoing	Completed



Progress achieved and planned – by Outputs

Output 2.1

Activity	As of March 1, 2024	Next 6 months
2.1.1. Provision of TA to countries for the development of replicable pilot EE and RE investment projects enhancing regional connectivity	Ongoing	Ongoing
2.1.2. Furnishing technical assistance to the CA countries for the development of replicable EE and RE investment projects for enhancing regional connectivity	Not started	Planning
2.1.3. Establishing and co-ordinating regional and international contacts and exchanges among RE and EE stakeholders in the region and in the EU to replicate pilot projects	Not started	Planning
2.1.4. Supporting collection and dissemination of information for policy use on gender equality among different target groups	Ongoing	Ongoing
2.1.5. Organising meetings with stakeholders and IFIs on the identification/development of bankable RE and EE investment projects	Ongoing	Ongoing
2.1.6. Furnishing ad hoc technical support to the EUD	Ongoing	Ongoing



Activity 1.1.1 Providing assistance in the development of regional and country-specific frameworks for gender and climate sensitive EE and RE policies (1)

Providing country-specific legislative and policy support for the promotion of EE:

- Upon request of the Ministry of Industry and Construction of **Kazakhstan**, an **Amendment to the Bylaw on Conducting Energy Audits** (through introducing 2 new Energy Audit types, Express Energy Audit and Targeted Energy Audit) was prepared, and approved by the Minister of Industry and Construction on 29 November 2023
- The **Strategic Roadmap** was developed for advancing the **Energy Performance Certification** (EPC) system in **Kyrgyzstan**, aligning it with EU best practices and addressing local challenges in the building sector. Main steps taken:
 - Technical workshop “Quality Control of EPC” (held on 6 October 2023)
 - Preparation of a draft “Conceptualisation of Quality Control for EPC of Buildings and Implementation Roadmap in Kyrgyzstan”
 - Round table (held on 7 February 2024)
 - Final road map agreed with and delivered to local stakeholders

Activity 1.1.1 Providing assistance in the development of regional and country-specific frameworks for gender and climate sensitive EE and RE policies (2)

Providing country-specific legislative and policy support for the promotion of small-scale RE:

- Upon request of the Ministry of Energy of **Kazakhstan** assistance is being provided in the development of a RES prosuming system based on the analysis of international best practices

A prosumer is a customer connected to the distribution system that owns an object for electricity generation from RES, where it uses the generated electricity for its own consumption and the surplus electricity is delivered in the (distribution) grid

Activity 1.1.1 Providing assistance in the development of regional and country-specific frameworks for gender and climate sensitive EE and RE policies (3)

- Upon request of the Green Energy Fund (Fund) under the Cabinet of Ministers of the **Kyrgyz Republic**, SECCA started assisting in small hydropower (SHP) development. Steps taken:
 - Technical workshop “Promoting SHP development in Kyrgyzstan” (held on 5 October 2023) with participation of EU-funded Hydro4U and the Georgian Energy Development Fund (GEDF)
 - During the study tour to Georgia, on 17 November 2023, the Director of the Fund and CEO of GEDF, signed a Memorandum of Understanding (MoU) aimed at establishing cooperation in RE development
 - In February 2024, the Fund requested SECCA to assist in carrying out the pre-feasibility study (pre-FS) for Karakol-1 Small hydropower plant (SHPP)
 - For pre-FS, ToRs prepared for Non-key experts (NKEs): Hydraulic engineer, hydrologist, electrical & mechanical engineer, environmentalist, legal expert, financial expert. The selection of candidates is in progress

Activity 1.1.1 Providing assistance in the development of regional and country-specific frameworks for gender and climate sensitive EE and RE policies (4)

- **In Turkmenistan**, a training workshop “International experience in development of regulations and technical documents in RE and EE” conducted (Mary, 13 September 2023)

Provision of support for the assessment of the relevant CA country's biomass potential for energy production:

- The **methodology for the estimation of the energy potential of biomass** was developed. By using this methodology:
 - Estimation of biomass potential for production of energy, biogas, and biofuel in **Kyrgyzstan**
 - A rough assessment of Biomass-to-energy and Biomass-to-biofuels potential in **Kazakhstan**
 - A rough assessment of biomass-to-energy and biomass-to-biofuels potential in **Uzbekistan** has been conducted
- The draft **Concept for improving technologies and practices for processing biomass to energy, biogas, and liquid biofuels in Central Asian countries** has been developed

Activity 1.1.1 Providing assistance in the development of regional and country-specific frameworks for gender and climate sensitive EE and RE policies (5)

Providing assistance in improving the National Inventories of buildings:

- Pilot inventory of central government buildings (on the example of 33 buildings of the Department of State Buildings under the President of the **Kyrgyz Republic**)
 - Development of a questionnaire for the pilot inventory
 - Collection of information and data
 - Rough analysis of the data - the analysis showed that specific energy consumption in many buildings was outside the expected range. *The reasons will be investigated further*

Activity 1.1.1 Providing assistance in the development of regional and country-specific frameworks for gender and climate sensitive EE and RE policies (6)

Mainstreaming gender and right-based approaches in the design and implementation of RE and EE policies:

- National Gender Assessments (GA) are ongoing in **Kazakhstan, Kyrgyzstan, and Uzbekistan**
 - Section 1 of GA provides a general overview of gender equality related matters in the country, including institutional, socio-cultural, economic and demographic aspects
 - Section 2 includes an assessment of the status of gender matters in the national energy sector and specifically in the RE sub-sector (participation of girls in STEM studies; participation of women in employment in the energy sector; mapping of stakeholders active in the gender and energy etc.)

STEM - Science, technology, engineering, and mathematics

- Gender Equality and Social Inclusion (GESI) aspects have been considered in the concept of Sustainable Energy Days (SEDs) for 2024

Activity 1.1.4 Providing assistance in the development and enforcement of country-specific NREAP and NEEAP

- The EU practice of shifting from National Renewable Energy Action Plan (NREAP) and National Energy Efficiency Action Plan (NEEAP) to the National Energy and Climate Plan (NECP), as well as aspects of integrated energy and climate planning were discussed during several meetings with the stakeholders in all Beneficiary Countries:
 - **Kazakhstan** - at the International Conference held within the SEDs KZ programme
 - **Kyrgyzstan** - at the International Conference held within the SEDs KG programme
 - **Tajikistan** – at the Technical Workshop “Main aspects of sustainable energy policy planning and implementation” (Dushanbe, 8-9 June 2023)
 - **Turkmenistan** – at the Training Workshop “International experience in the development of regulations and technical documents in the field of RE, Energy Saving and EE” (Mary, 13 September 2023)
 - **Uzbekistan** - at the International Conference held within the SEDs UZ programme

Activity 1.1.6 Providing technical assistance in energy auditing for sustainable/climate-proof buildings and industry (1)

- Assistance has been provided in development of the Strategic Roadmap for enhancing the quality control of mandatory energy audits of industry enterprises of **Kazakhstan**. The following steps were taken:
 - Technical Workshop on Quality Control of Energy Audits for the Industry (6 September 2023)
 - In collaboration with the Electric Power And Energy Saving Development Institute (EEDI) the draft of “Conceptualization of Quality Control for Mandatory Energy Audits and Implementation Roadmap in Kazakhstan” was prepared
 - The Round table discussion: Quality Control of Energy Audits (EA) for the Industry (2 February 2024)
 - Based on the feedback (comments and suggestions) from the Ministry of Industry and Construction (MoIC) and EEDI, the final version of the Roadmap was prepared

Activity 1.1.6 Providing technical assistance in energy auditing for sustainable/climate-proof buildings and industry (2)

- EU practices in Energy Auditing (in buildings and industry), as well as Energy Performance Certification (EPC) of buildings, have been presented in each Beneficiary Country
- **Tajikistan** – In the framework of SEDs programme, the elements of EA in buildings and industry, as well as EPC of buildings were discussed
- **Uzbekistan** - Technical Workshop “EA in Buildings – from Theory to Practice” held on 18 October 2023

Activity 1.1.7 Building capacities in each CA country on RE and EE (1)

Study Tours

- During 13-21 November 2023, **senior government officials and energy sector experts** from the **Beneficiary Countries** visited **Georgia** for a study tour on “**Sustainable Energy in Practice: Georgia’s Success and EU Best Practices**”. The Study Tour programme included:
 - Visits to RE and EE project sites
 - Meetings and discussions
 - ✓ Setting-up and operating of the independent Regulator
 - ✓ Setting-up and operating of the state-owned sustainable energy development fund
 - ✓ Guarantee of Origin (GO) for RES
 - ✓ Back-to-back High-voltage direct current (HVDC) interconnector (at the Akhatskhikhe back-to-back Georgia-Turkey HVDC Interconnector)

Activity 1.1.7 Building capacities in each CA country on RE and EE (2)

- From 27 November to 1 December 2023, **students, young researchers and professionals** - winners of the EU contest #Reels4SustainableEnergy and the best Sustainable Energy Mural Design, as well as **representatives of the most EE schools** from the Beneficiary Countries visited **Latvia** for a study tour “**Promotion of Energy Efficiency – Latvian Experience**”. The Study Tour programme included visits to and discussions with:
 - Ministry of Economy
 - Riga Energy Agency
 - Riga Technical University
 - University for Future Engineers
 - Getlini solid waste landfill
 - Electrum Energy Efficiency Centre
 - Cleantech Latvia

Activity 1.1.8 Providing trainings for eligible institutions in the development, planning and implementation of projects in the framework of Horizon Europe

- Horizon-related section is presented on the SECCA website
- Series of meetings were conducted with National Contact Points (NCPs) for Horizon Europe programme for **Kazakhstan** and **Kyrgyzstan**
- Meetings were held with several universities in **Kazakhstan, Tajikistan, Turkmenistan** and their interest in Horizon Europe was explored
- Existing experience of the CA countries in participation in the Horizon programme was presented at the Conference during SEDs in Turkmenistan

Activity 1.1.9 Organization of EU-CA country Sustainable Energy Days (1)

- **Kazakhstan** - Sustainable Energy Days (SEDs) conducted in Astana (1-2 June 2023)
 - International Conference
 - Award ceremony of the most EE school in Astana
 - Award ceremony of winners of the Contests #Reels4SustainableEnergy
 - Award ceremony of winners of Mural (has been painted on the façade of the most EE school. Opening ceremony held on 11 October 2023)
 - Flash mob for the students of the most EE school

Activity 1.1.9 Organization of EU-CA country Sustainable Energy Days (2)



Activity 1.1.9 Organization of EU-CA country Sustainable Energy Days (3)

- **Kyrgyzstan** - SEDs held in Bishkek (15-17, 27 May 2023)
 - International Conference
 - Bilateral technical meetings on EE, RE, RE/EE financing
 - Training Workshop for specialists of the National Statistical Committee (delivered by specialists of the Bureau of National Statistics of Kazakhstan)
 - Award ceremony of the most EE school in Bishkek
 - Flash mob for the students of the most EE school

Activity 1.1.9 Organization of EU-CA country Sustainable Energy Days (4)



Activity 1.1.9 Organization of EU-CA country Sustainable Energy Days (5)

- **Tajikistan** – SEDs, as part of the EU Green Diplomacy Week, held in Dushanbe (25-26 October 2023)
 - International Conference
 - Award ceremony of the most EE school in Dushanbe
 - Flash mob for the schoolchildren of the winning school

Activity 1.1.9 Organization of EU-CA country Sustainable Energy Days (6)



Activity 1.1.9 Organization of EU-CA country Sustainable Energy Days (7)

- **Turkmenistan** – SEDs, held in Mary (14-15 December 2023)
 - International Conference
 - Lectures for faculty members and students of the State Energy Institute of Turkmenistan
 - Ecological Action for schoolchildren
 - Award ceremony of the most EE school in Mary

Activity 1.1.9 Organization of EU-CA country Sustainable Energy Days (8)



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Activity 1.1.9 Organization of EU-CA country Sustainable Energy Days (9)

- **Uzbekistan** – SEDs, held in Tashkent (26-27 June 2023)
 - International Conference
 - Bilateral technical meetings on EE, RE, RE/EE financing
 - Training Workshop for specialists of the State Statistics Agency (delivered by specialists of the Bureau of National Statistics of Kazakhstan)
 - Award ceremony of the most EE school in Tashkent (18 October 2023)

Activity 1.1.9 Organization of EU-CA country Sustainable Energy Days (10)



Activity 1.1.10 Raising country-specific and regional awareness on the benefits of the transition into more sustainable and gender-inclusive energy systems

- SECCA proactively collaborated with media outlets
 - 2 interviews of TL/KE1 on sustainable energy transition in Central Asia were conducted for Baigenews.kz
 - Interview with Gender Specialist published on the website on the occasion of International Women and Girls in Science Day (11 February 2023) and promoted on social media
 - Interviews with KE2 and 2 representatives (Kazakhstan, Kyrgyzstan) published on the occasion of International Women's Day

Activity 1.1.11 Providing assistance to CA countries in benefiting of opportunities provided by the Paris Agreement

- Analytical note “On Kazakhstan's Accession to the Global Methane Pledge: Potential Benefits and Challenges” was prepared, methane emissions in 2023-2030 under the different scenarios estimated and presented at Round Table: The Policy Dialogue - Global Methane Pledge: World Experience and Kazakhstan was organized (Astana, 8 September 2023)
- On 26-27 January 2024, at the Round Table "COP 28: Outcomes and Recommendations for Kazakhstan", activities were proposed for the Implementation Plan of the Strategy to Achieve Carbon Neutrality in Kazakhstan by 2060

Activity 1.3.1 Furnishing technical assistance for improving regional and national statistical data and information

Providing support for enhancing countries' national statistical datasets in the energy sector

- **Regional Workshop** on data collection and compilation of the statistics on final energy consumption (Tashkent, 11-13 July 2023)
- **Kazakhstan**
 - In July 2023, a 5-day on-the-job training for specialists of the Bureau of National Statistics (BNS) of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan
 - Assistance to specialists of BNS in developing Fuel and energy balance of Kazakhstan for 2022
- **Kyrgyzstan, Uzbekistan** - Specialists of BNS delivered on-the-job training for specialists of the National Statistical Committee of the Kyrgyz Republic and the State Statistics Agency of Uzbekistan

Activity 1.3.5 Furnishing technical assistance for the development of a Regional Central Asia Energy Model

- The capacities of the Beneficiary Countries to develop national energy sector models were assessed and capacity-building plans were developed
- A regional group of specialists was set up (two young professionals, one in statistics and policy and another in energy management, from each Beneficiary Country) to initiate country "modelling units" and create a long-term virtuous bridge between the Project activities and local decision makers
- Programme of the regional trainings for the Working Group on Energy Modelling has been developed
- **Kazakhstan** - Different scenarios with and without coal-fired power generation were developed and economic and corresponding environmental benefits were analyzed. The analysis covered the multi-factors and model-based "large strategic exercise" of the energy system of Kazakhstan. The results were presented at the Expert Meeting "Energy transition in the power sector of Kazakhstan" (Astana, 23 November 2023)

Activity 2.1.1 Provision of TA to countries for the development of replicable pilot EE and RE investment projects enhancing regional connectivity

Promoting Rooftop Solar (*on the example of Tajikistan*)

- Technical, legal & regulatory (L&R), environmental and financial aspects of rooftop solar in Tajikistan were studied
- Analysis of the Legal and Regulatory (L&R) framework conducted and recommendations for its improvement elaborated
- Technically and economically feasible potential of rooftop solar in Dushanbe studied

Promoting E-mobility (*on the example of Tajikistan*)

- Existing L&R framework overviewed, and gaps identified
- E-mobility market study is ongoing