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Central Asian Energy Efficiency Support Program

Quarterly Performance Report: October – December 2012



Submitted by ICF International

January 2013

This document was prepared for the United States Agency for International Development (USAID) by ICF International under Cooperative Agreement No. 00176-LA-11-00003, Leader with Associate Cooperative Agreement AID-OAA-L-11-0000.

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Central Asian Energy Efficiency Support Program (CAEESP)

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ACRONYMS

ACF	Asian Credit Fund
ADB	Asian Development Bank
ALES	Almaty Electricity System
AO	Agreement Officer
AOTR	Agreement Officer's Technical Representative
CAEESP	Central Asian Energy Efficiency Support Program
CAR	Central Asian Republics
CAREC	Central Asia Regional Environmental Center
DOE	US Department of Energy
DSM	Demand Side Management
EAA	Energy Auditor's Association
EBRD	European Bank for Reconstruction and Development
EE	Energy Efficiency
EnMS	Energy Management System
ESCO	Energy Service Company
FY	Fiscal Year
GHG	Greenhouse Gas
GoK	Government of Kazakhstan
IFI	International Financial Institution
ISO	International Organization for Standardization
KAVEIK	Kazakhstan Association of High-tech, Energy Efficient and Innovative Companies
KAZSEFF	Kazakhstan Sustainable Energy Finance Facility
KEE	KazEnergyExpertize
KTR	Kazakhstan Technical Regulation Committee
LED	Low Emissions Development
MINT	Ministry of Industry and New Technologies
O&M	Operations and Maintenance
PMEP	Performance Monitoring and Evaluation Plan
SK	Samruk Kazyna Group
STTA	Short-term Technical Assistance
UNDP	United Nations Development Program
UNECE	United Nations Economic Commission for Europe
UNIDO	United Nations Industrial Development Organization
US	United States
USAID	US Agency for International Development
USG	US Government

1. INTRODUCTION

This Quarterly Progress Report, a deliverable under the Cooperative Agreement No. AID-OAA-L-11-00003-00, describes the activities and accomplishments of the **Central Asian Energy Efficiency Support Program (CAEESP)** during the period October to December 2012. The CAEESP was awarded to ICF International in September 2011 and seeks to effectively lower the existing barriers to energy efficiency (EE) improvements in Central Asia, particularly Kazakhstan. The CAEESP comprises the following five major Tasks:

- Task 1 - Initial Assessment and Prioritization
- Task 2 - Stakeholder Awareness and Education in Energy Efficiency
- Task 3 - Energy Efficiency Project Development and Financing Facilitation
- Task 4 - Support for Private Sector Energy Efficiency Service Providers
- Task 5 - Regional Analysis and Recommendations

Task 1 was completed in November 2011 with the submission of the Project Inception Report. While CAEESP continues to evolve in response to changing opportunities and to align with USAID and GOK priorities, we are no longer reporting on Task 1. The quarterly progress report is organized according to the remaining four primary tasks, followed by sections on program coordination, reporting on progress made this quarter towards meeting the performance indicator targets, financial reporting and plans for the next quarter.

2. OVERALL QUARTERLY PROGRESS

Overall Program Progress in this Quarter

Substantial progress was made in the period October – December 2012, putting the CAEESP back on track and prepared to meet its overall goals and performance targets. Highlights of the period included:

- Official requests from KazPhosphate, KazChrome, Almaty Electricity System (ALES), KazakhMys and KazTransMorFlot to cooperate with CAEESP on conducting ISO 50001 gap analyses and analysis of their energy management systems;
- Gap analysis at KazPhosphate Taraz facility was successfully conducted in December;
- Cooperation and assistance to the US Department of Energy(DOE)/Oak Ridge National Laboratory on its deep dive assessments at KazPhosphate and in other DOE activities in Kazakhstan;
- Completed CAEESP expert review of the Energy Action Plan for Almaty;
- Request for assistance from Pavlodar Akimat to work with CAEESP on their energy action plan and training for local government officials and municipal facility directors;
- Developed a case study with the Asian Credit Fund (ACF) on households in their energy efficiency lending portfolio
- CAEESP participated in more than 8 events that included over 315 participants during the quarter:

Oct 8-12	Association of Energy Auditors	20
Oct 31	KAVEIK in Almaty	50
Nov 6	Kazphosphate seminar in Taraz	60
Nov 23	Covenant of Mayors in Astana	50
Dec 5	Kazchrome seminar in Aktobe	60
Dec 6	Nazarbayev University, Steam Tool	12
Dec 12	ALES seminar in Almaty	20
Dec 20	Covenant of Mayors in Bishkek, Kyrgyzstan	45
	TOTAL	317

- Presentations at two Covenant of Mayors kick-off events, one in Astana, Kazakhstan and the second in Bishkek, Kyrgyzstan
- Agreement with the United Nations Economic Commission for Europe (UNECE) and the Economic and Social Commission for Asia and the Pacific (ESCAP) to co-sponsor a workshop on energy efficiency financing in April 2013.
- Submission and USAID approval of the Year 2 Work Plan and Year 1 Annual Report

Problems Encountered During Quarter. No significant problems were experienced during the quarter. Minor issues included the decision by Shymkent Petrochemical not to cooperate with CAEESP necessitating the identification of an alternate facility (KazChrome) and SamrukEnergO delaying their agreement to work with CAEESP. Late in the quarter, SamrukEnergO identified ALES and CHP-2 to be the target of technical assistance in conducting an ISO 50001 gap analysis under CAEESP.

3. SUMMARY OF ACTIVITIES CONDUCTED

This section provides a summary of major activities conducted since the submission of the Annual Report in October 2012.

3.1 Task 2 – Stakeholder Awareness and Education in Energy Efficiency

The CAEESP Awareness and Education Strategy, as articulated in the Year 2 Work Plan, is to take advantage of opportunities to participate in events that are being organized around the country by all stakeholders in the energy sector. During the quarter, CAEESP participated in several such events as detailed below.

- CAEESP organized three sessions of the energy audit and ISO training held October 8-12 by the Energy Auditor’s Association for KazakhMys energy engineers. German Trofimov gave a presentation on energy efficiency policy and regulation on the first day of the workshop. Vitaliy Bekker gave two presentations: “Best Practices for EE Measures in Industry” and “Energy Management as a Tool for Clean Energy”.
- Vitaliy Bekker and Mary Worzala participated in the kick-off event for the KAVIEK association that took place in Astana on November 15-16.
- CAEESP was invited to make presentations for a KAVEIK (Kazakhstan Association of High-Tech, Energy Efficient and Innovative Companies), kick-off event in Almaty on October 31. Two presentation slots were covered by CAEESP: "EE measures in residential sector" and "Benefits of EnMS implementation".

- Andrey Dodonov gave a presentation on CAEESP and financial evaluation of residential energy efficiency measures at the Covenant of Mayors kick-off event on November 23 in Astana.
- Half-day presentations were organized at KazPhosphate, KazChrome and Almaty Electricity System (ALES) which covered CAEESP, the energy efficiency law and general energy situation in Kazakhstan, and preliminary information on ISO 50001.
- The team completed a draft proposal for the Central Asia Energy Efficiency Learning Portal (CAEELP). The CAEELP would significantly enhance the reach of the ISO 50001 and energy efficiency capacity-building activities that have been initiated under CAEESP.
- Two success stories were completed: one on the CAEESP/ACF collaboration in the training for ACF loan officers and the second on the ISO 50001 training for industries.
- CAEESP submitted a program description in Russian and English for the USAID/CAR web site, and an article about the ACF training which was published in the regional newsletter.

3.2 Task 3 - Energy Efficiency Project Development and Financing

Task 3.1 EE Project Development

A. Industrial Support

At the beginning of the quarter, CAEESP had identified two potential industrial clients to work with on an ISO 50001 gap analysis - **Shymkent Petrochemical** and **KazPhosphate**. The Shymkent Petrochemical plant declined to participate in CAEESP activities due to concerns about the proprietary nature of their facility and processes. CAEESP contacted several other industrial plants and secured agreement from KazChrome to explore opportunities for cooperation. During the quarter, three other facilities expressed interest in working with CAEESP, namely ALES, KazakhMys and KazTransMorFlot. The activity during the quarter with each of these organizations is described in this section.



Photo 1. CAEESP and ISO 50001 presentation at the meeting at Kazphosphate. November 6, 2012. Taraz.

Cooperation with KazPhosphate: The first visit to KazPhosphate took place in September to meet with Mr. Tsvit, Corporate Energy Manager, to discuss the possibility of collaboration on ISO 50001 gap analysis and readiness for certification. Following the first meeting, tentative agreement to cooperate was achieved and a kick-off meeting was

organized for November 6. The attendance was excellent with close to 60 company representatives from the various mining and processing facilities, including plant managers, energy managers and quality control staff. Presentations on ISO 50001 and industrial energy management were made by CAEESP staff, and KazPhosphate selected the Taraz plant as the site for the gap analysis. The gap analysis was conducted the week of November 26 by Yeen Chan, Vitaliy Bekker and Daniyar Buxukbayev. The gap analysis report will be completed in early January, translated to Russian and submitted to KazPhosphate for review.

Cooperation with KazChrome: In late October, Mary Worzala and Vitaliy Bekker traveled to Aktubinsk to meet with Kazchrome management to discuss the potential for cooperation. Following this meeting, KazChrome agreed to invite its energy managers and plant directors to a presentation by CAEESP on December 5, the first step in kicking off the ISO 50001 gap analysis. KazChrome invited over 60 participants to attend the meeting, from seven of its plants. The meeting took place at the KazChrome headquarters building in Aktobe, with participants from the plants on remote video connection. At the conclusion of the meeting, the Vice President who chaired the meeting said that he was in favor of cooperating with CAEESP on the ISO 50001 certification but that the President needed to give his approval to go ahead. In late December, KazChrome Energy Manager, Mr. Pisaroglo, provided unofficial confirmation to German Trofimov that they are interested in having CAEESP work with one of KazChrome's facilities on the preparations for ISO 50001 certification. Tentatively, we have agreed that the technical assistance from CAEESP will be scheduled for the second half of February.

Cooperation with KazakhMys: At the Energy Auditor's Association training for KazakhMys in September, the Chief of the Energy Saving Department, Mr. Anton Bachurin, expressed interest in having CAEESP work with the company on a gap analysis for ISO 50001. In late December, KazakhMys sent a letter requesting that CAEESP work with the company in the Ust-Talovka village where KazakhMys has a copper-zinc ore mining and processing facilities. KazakhMys also provides heat and hot water to the town. This site could be an excellent choice for designing a demand-side management (DSM) program because there is production, transmission and distribution of heat in addition to the industrial process. An initial visit to Ust-Talovka will take place in early February.

Cooperation with KazTransMorFlot: Yeen Chan and Daniyar Buxukbayev made a brief stop in Aktau to meet with KazTransMorFlot (KTMF) to have follow-up discussions on possible ISO 50001 assistance. This was requested by KTMF; possible follow-up will be discussed with USAID in the first quarter of 2013.

B. Municipal Support

As agreed in the Year 2 Work Plan, CAEESP will cooperate with two or more akimats in the development of their Energy Action Plans. Two akimats have been identified to date: Almaty Akimat and Pavlodar Akimat.

Almaty Akimat hired an outside consultant to update an existing energy efficiency action plan. By the time that CAEESP got involved, the draft of the update was nearly completed and was being circulated for comment. CAEESP completed a review of a portion of the municipal energy action plan, which covered only residential and municipal buildings. In Almaty, this partial plan is the only section that is under the authority of the municipal energy office. Other sections, such as transport or industry, fall under the authority of

other government offices. Recommendations that were made to improve the plan. A stakeholder roundtable will be organized in the first quarter of 2013 to review and discuss the municipal energy action plan.

In November, CAEESP met with the Deputy Chief of the EE Department for the Pavlodar area, Mr. Nashrapov. A brief presentation about CAEESP was made, followed by a discussion of the possibilities for cooperation. Several relevant activities were defined for the Pavlodar municipality, including: review of the Energy Action Plan for Pavlodar and participation in the working group to finalize the plan; energy audit training for the municipal sector; and training for municipal sector managers who are involved in implementing the energy action plan. A letter from the Pavlodar akimat requesting such assistance was received in late December. Andrey Dodonov will follow up with Mr. Nashrapov in late January to more clearly define and to establish a schedule for technical assistance and training.

CAEESP participated in the Covenant of Mayors kick-off events held in November in Astana and in December in Bishkek. At both events, Andrey Dodonov gave a presentation on objectives and activities of CAEESP and on the financial evaluation of residential energy efficiency measures. Both presentations generated a lot of interest and requests for follow-up interactions.

C. Support to the Power Sector

In October, CAEESP received an official letter from Samruk Energo agreeing to cooperate with CAEESP, and nominating CHP-2 in Almaty as the target for an EnMS consultancy. An initial meeting was held with the Chief Engineer, Mr. Ismukhambetov Gaziy, and other EE specialists with ALES, where it was agreed that a first training session on EnMS and ISO 50K would be held in December. On December 12, the CAEESP team gave a half-day workshop to ALES on Kazakhstan's energy policy and the energy efficiency law, EnMS and the ISO 50001 standard. ALES indicated that they are interested in working with CAEESP and will prepare an official letter of interest.

Task 3.2 Financing Facilitation

3.2.a Support to the Asian Credit Fund (ACF)

During this quarter, an agreement was made with the Asian Credit Fund (ACF) on further cooperation with CAEESP, including to:

- Jointly develop a brochure for energy efficiency tips for houses in rural areas
- Develop scenarios for videos on energy efficiency measures for rural houses
- Provide technical assistance for a pilot energy-efficient residential project that is being planned and funded by ACF
- Create successful case studies of residential energy efficiency for a region in Kazakhstan, likely near Taraz

CAEESP's Andrei Dodonov visited the Shelek village in late October with representatives from the Asian Credit Fund to collect materials for case studies on energy efficiency loans in the rural residential sector. Since the training was held with ACF through December, 100 energy efficiency loans have been distributed, with a total value of 47,532,080 tenge

(approximately \$320,000). Three houses were visited in different settlements, two of which have already taken out loans and one that planned to take a loan and complete the work prior to winter. He developed a case study in Russian based on data and interviews of three households in the Shelek village. At the close of the quarter, the case study in both Russian and English is being reviewed.



Photo 2. Meruert Ismailova with family members at their new house. Lavar village, Almaty region.



Photo 3. Wall insulation work in Meruert Ismailova's house. Lavar village, Almaty region.

ACF Executive Director, Zhanna Zhakupova, traveled to Washington DC the week of November 4 to meet with funders and USAID Development Credit Authority (DCA) representatives. CAEESP provided a success story on the joint ACF/CAEESP collaboration and a draft write-up on the case study for Ms. Zhakupova to use during her visit.

3.2.b Support to Financial Institutions

CAEESP met with Anvar Nasritdinov from EBRD to inform him about our activities. EBRD is developing a program of technical assistance and a credit line that contains many similar elements (ISO 50001 training, information database, benchmarking) to work that CAEESP is doing. The expected target for the new EBRD program is medium and smaller industries and some work with both national and local governments. EBRD also expressed interest in our work with ACF. EBRD has funded microfinance programs in other countries; however the minimum threshold for EBRD's consideration is \$5 million.

The team met with ADB representatives in November to introduce ADB to our Year 2 activities. ADB's major focus in energy efficiency will be on a large district heating retrofit (\$200 million) in Karaganda. ADB conducted a situational analysis of the energy sector in 2012 which was shared with the team.

3.3 Task 4 - Support for Private Sector Energy Efficiency Service Providers

The CAEESP team met with the Institute of Nuclear Physics, Yevgeny Yermakov, who had approached CAEESP to learn more about the program and its objectives. The Institute has a division which performs energy audits for any facilities which are related to the nuclear industry (mining, processing and production). These industries are typically located in mono-cities which were formerly closed cities; energy for the city and the industry are typically provided by the industry. The Institute of Nuclear Physics is the only organization in Kazakhstan that is providing energy audit services for these industries. We are exploring the possibility that CAEESP conduct a two-day training for the Institute staff and invited

energy managers from nuclear-related facilities throughout the country. The training could be conducted sometime in the first quarter of 2013.

CAEESP also met with DQS-UL, a joint German/US certification company that provides ISO 50001 certification. DQS has an office in Almaty and another in Astana, which provide ISO training locally. We gave an introduction to CAEESP and agreed that there might be a common interest in providing training and certification services. For example, we could provide a link to the industries that we are working with after the gap analyses are completed. DQS could provide case studies for some of our work with industries and municipalities.

3.4 Task 5 – Regional Analysis and Recommendations

Several regional activities took place this quarter. Early in the quarter, the Turkmenistan Mission raised the possibility of conducting an assessment mission to Ashgabat to design a support program in renewable energy. Background documents were provided, and feedback was provided to Ben Chapman from USAID/Turkmenistan on the planned UNDP and Chevron activities and complementary activities that CAEESP could undertake. Further investigation showed that UNDP is not yet ready to launch such a program, so the assessment mission was deferred.

Andrey Dodonov participated in the Covenant of Mayors kick-off event in Bishkek, Kyrgyzstan, on December 19-20. Andrey gave a presentation on CAEESP activities, the work being conducted jointly with the Asian Credit Fund, and on municipal energy efficiency opportunities. There was strong interest by participants in his presentation and a follow-up with UNDP is planned.

Plans are underway for a jointly sponsored workshop on preparing business plans for energy efficiency projects. The workshop co-sponsors are UNECE, ESCAP and USAID/CAEESP. The participants will come from 10-12 countries, including all five of the countries of the Central Asia region. CAEESP will co-sponsor the workshop by covering the local expenses in Almaty such as venue, translation and meals. UNECE will cover all of the costs for the participants travel and per diem, as well as the workshop experts who will provide the training.

4. PROGRAM COORDINATION

The CAEESP team is deliberate and intentional in its searching to coordinate activities with other programs, and to avoid duplication with other donors. We met with many energy sector stakeholders while developing the Year 2 work plan. In addition to those meetings, and the meetings mentioned earlier in this report, several other meetings took place in the effort to coordinate activities:

- Mary Worzala met with Randy Burton of the USAID-funded RESET Program to learn more about their activities and identify areas where the two programs could potentially collaborate. There is little overlap between the programs; however there is the possibility to collaborate on energy sector curriculum development (task led by Michael Bekker).

- The team met with Mr. Koji Kojima, Senior Project Manager from the Mitsubishi Research Institute. Mr. Kojima was conducting a fact-finding mission on behalf of the Japanese government to assess the opportunities for support in the industrial sector in Kazakhstan. They are in the initial stages of designing their cooperation, however it is likely that the support will focus on the cement sector and support in improving efficiency of CHPs.
- The team met with UNDP program representatives to discuss leveraging activities with their buildings, residential and efficient lighting programs. As a first step, CAEESP will participate in a kick-off workshop for their efficient lighting program.

A significant amount of effort was put into facilitating the Oak Ridge National Laboratory deep dive assessments under the terms of the US Department of Energy-Ministry of Industry and New Technology cooperation. The CAEESP and ORNL team held weekly calls over a period of 6-8 weeks to do advance planning for the audits. CAEESP assisted the team by obtaining permission for ORNL to conduct a deep dive assessment at one of KazPhosphate's plants. Initially, we also proposed that KazChrome could be a second site, however KazChrome did not agree to work with CAEESP in time. CAEESP developed additional options for the team, including trying to find an alternate plant and conducting training on a steam system analysis tool which has been developed by DOE. CAEESP prepared a translation of the steam tool that was used for training at Nazarbayev University and will be posted on the DOE website. The CAEESP team also held discussions with KEE to seek support for identifying a facility for the assessment.



Photo 4. Thomas Wenning presents DOE activities to the University's research team and KEE representatives. December 6, 2012, Nazarbayev University, Astana.



Photo 5. Michael Muller demonstrates to University's research team how to collect data. Nazarbayev University's Boiler House, Astana.

The ORNL team was in-country from November 27 to December 8; CAEESP provided the needed logistic and translation support to facilitate their work. The week at KazPhosphate went very well. The team reported excellent cooperation from KP staff and high interest in both team's activities. There were no significant problems with obtaining data and measurements on-site, and the team incorporated KP staff wherever possible to provide some training to them.



Photo 6. Audit at Kazphosphate plant. November 28, 2012, Taraz.

KEE had agreed to identify a plant for the second week of ORNL's deep dive assessment work, however the plant, a small repair shop for pumps and motors from CHPs and other facilities near Karaganda, was deemed by the team to be inappropriate for the full deep dive assessment. The ORNL team spent one day at the plant, which was sufficient to identify opportunities in their boiler house. They then went to Astana to meet with Nazarbayev University and to provide training on the DOE steam system tool. They also met with CHP-2 and got a tour of the facility, however they were not allowed to conduct an audit.

5. MONITORING AND EVALUATION

Table 2 provides an update on the progress towards meeting the CAEESP program performance targets during the quarter.

Table 2. Year 2 Indicator Targets and Achievements This Quarter		
Task Level Intermediate Results (IR) – Indicators, Targets, Milestones		
Indicator	Target	Achieved this Quarter
IR 1: Raised stakeholders' awareness of the importance of, and opportunities for, energy efficiency as a means of reducing end-user costs and GHG emissions		
Indicator 1.1: Number of awareness/outreach activity/events held	8	8
Indicator 1.2: Number of institutional stakeholders, firms, and industry targeted by awareness campaigns	50	24
Indicator 1.3: Number of people covered by awareness campaigns	250	317
IR 2: Commercial banking sector is interested in developing lending products targeted at energy-efficiency investments		
Task 2: Stakeholder awareness and education in energy efficiency		
Indicator 2.1: Number of awareness/orientation/education activity implemented targeting financial sector	2	1
Indicator 2.2: Number of financial institutions represented in project sponsored activities	3	1
IR 3: Increased private sector investment in energy efficiency measures		
Task 3: Energy efficiency project development and financing facilitation		
Indicator 3.1: Number of energy efficiency action plans leveraged	7	1
IR 4: Increased private sector capacity in developing and implementing energy efficiency projects		
Task 4: Support for private sector energy efficiency service providers		
Indicator 4.1: No. of people receiving USG supported training in energy auditing, ESCO and EPC practices; low-cost measures; voluntary energy efficiency policies, strategies and techniques	40	5
Indicator 4.2: Number of Companies with increased capacity to develop and implement energy efficiency projects	7	1

6. Financial Summary

For the third quarter of the project, the budget summary follows, prepared to align with budget categories in the Cooperative Agreement:

7. ADMINISTRATIVE AND CONTRACTUAL MATTERS

CAEESP was pleased to add a full-time local staff person in October; Mr. Daniyar Buxukbayev was hired as a Technical Expert with CAEESP on October 1. Two deliverables were finalized during the Quarter:

- Finalized the Year 2 Work Plan after receiving comments from USAID
- The CAEESP Annual Report was submitted in October and was accepted without revision.

A draft budget realignment request was also submitted during November.

8. PLANS FOR NEXT QUARTER

Each of the tasks is listed below, with expected activities for the next quarter.

Task 2 – Stakeholder awareness and education

- Develop articles for the energy magazine to be published by KAVEIK
- Seek out and continue to participate in energy efficiency events organized by others as they arise
- Complete energy efficiency labeling tasks (provide training materials to TechnoDom and input to government procurement policy for energy efficient products)
- Continue cooperation with UNDP on efficient lighting and efficient building standards
- Follow-up with Al-Farabi University and Nazarbayev Universities on possible collaboration on energy educational programs

- Develop communications plan for the remaining period

Task 3 - Energy efficiency project development and financing facility

- Complete KazPhosphate gap analysis report and translation; presentation of the report and the ORNL report to KazPhosphate management
- Conduct kick-off meeting with KazakhMys
- Schedule and conduct gap analysis with KazChrome and ALES
- Design follow-up work with KTMF
- Design activities in support of Pavlodar akimat
- Plan energy audit training for Pavlodar; conduct training in April/May
- Develop case studies based on work with KazPhosphate, KazChrome and ALES
- Meet with GoK counterparts to develop an information dissemination strategy for EnMS case studies
- Develop brochure content with ACF on identified topics

Task 4 - Support for private sector energy efficiency service providers

- Meet with energy auditor's association and KAVEIK to see opportunities for leveraging activities
- Develop a strategy for providing input to energy auditors certification and ISO 50001 certification
- Develop a needs assessment for private sector energy auditors and KEE

Task 5 - Regional analysis and recommendations

- Continue planning for the energy efficiency financing workshop co-sponsored by UNECE and ESCAP.
- Possible TDY to Uzbekistan for an assessment mission to design assistance to the newly created renewable energy center.
- Deepen alliance with Covenant of Mayors to explore possibilities of leveraging our work with their contacts and vice-versa.