CAREC Environment and Health Programme - Goals tasks and opportunities

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Programme Manager

Strengthening the Integration of health and environment aspects into transport policies in Central Asian countries (THE PEP Transport, Health and Environment Pan-European Program)  
20-21 November 2018, Kazakhstan, Almaty, CAREC office
CAREC Offices in Central Asia

17 years of expertise for better environment

MISSION

to assist Central Asian countries in addressing national and regional challenges on environmental protection

FOUNDERS

- Kazakhstan
- Kyrgyzstan
- Tajikistan
- Turkmenistan
- Uzbekistan
- European Union
- UNDP

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CAREC Functions and Roles

1. CAREC as a Cooperation Platform
   - Within the CA region
   - Bridge between CA & global initiatives

2. CAREC as a Knowledge Hub (Awareness raising)
   - Capacity building
   - Data bank: Information Platforms, Online courses

3. CAREC as a Think Tank
   - Research & Analytics
   - Policy Advice
   - Expert & Methodological Support

CAREC APPROACHES
- ✔ REGIONAL APPROACH
- ✔ INTERSECTORAL APPROACH
- ✔ INNOVATIVE APPROACH
- ✔ MULTILATERAL APPROACH
- ✔ GENDER APPROACH
CLIMATE CHANGE AND SUSTAINABLE ENERGY
WATER INITIATIVES SUPPORT
ENVIRONMENTAL MANAGEMENT
EDUCATION FOR SUSTAINABLE DEVELOPMENT
ENVIRONMENT AND HEALTH

5 thematic programmes

CLIMATE ADAPTATION & MITIGATION
INTEGRATED WATER RESOURCES MANAGEMENT (IWRM) & BASIN PLANNING
TRANSBOUNDARY COOPERATION & WATER DIPLOMACY
WATER QUALITY
ECOSYSTEM SERVICES
ECOLOGICAL CONVENTIONS
“WATER-FOOD-ENERGY” NEXUS
GREENING “ONE BELT, ONE ROAD INITIATIVE”
PROMOTION OF SDGs
LEADERSHIP & SUSTAINABLE DEVELOPMENT
ECOLOGICAL EDUCATION OF YOUTH & INDIGENOUS PEOPLE
INFLUENCE of ECOLOGY on HUMAN HEALTH

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CAREC Environment & Health Program

4 DIRECTIONS

- WATER, SANITARY AND HYGIENE
- CLIMATE CHANGE
- AIR POLLUTION
- WASTE MANAGEMENT

ACTIVITIES RELATED TO AIR QUALITY

1. Implementation of regional and national projects
2. Conduction of joint regional events in collaboration with WHO, UNECE and other partners
3. Organization of Regional dialogues within CAIEF platform
4. Participation and provision of expertise at international events and processes
5. Launching the Process “Environment for Central Asia”
“…WHO considers CAREC as a sustainable platform for cooperation on European process “Environment and Health” in the Central Asian region.”

Regional preparatory meeting to the 6th Ministerial Conference on Environment and Health (Ostrava, June 2017)

28-29 of March 2017, Kazakhstan (Almaty)
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<thead>
<tr>
<th>№</th>
<th>Directions of E&amp;H</th>
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<td></td>
<td><strong>AIR POLLUTION</strong></td>
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<td>1</td>
<td>Air pollution from combustion products</td>
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<td>2</td>
<td>Research of influence of small dispersion dust on human health and climate change adaptation</td>
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<td>Research on solid particles in atmospheric air</td>
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<td><strong>WATER, SANITATION AND HYGIENE</strong></td>
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<tr>
<td>1</td>
<td>Research and assistance in methodic on damage calculation from water transboundary pollution</td>
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<td>2</td>
<td>Scientific research on human impact facts on treatment facilities (risk assessment), including Aral Sea region, urbanization</td>
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<td>3</td>
<td>Water supplying and water drainage in rural communities</td>
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<td>4</td>
<td>Awareness raising among population on water availability, wastewater disposal and wastes utilization</td>
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<td><strong>CLIMATE CHANGE</strong></td>
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<td>1</td>
<td>Climate change adaptation measures</td>
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<td>Green public health</td>
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<td><strong>WASTE MANAGEMENT</strong></td>
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<td>1</td>
<td>Pesticide use impact decreasing</td>
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<td>2</td>
<td>Historical pollutions (poison and cattle dumping)</td>
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<td>3</td>
<td>Soil and water pollution by wastes, including pesticide</td>
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<td>4</td>
<td>Persistent organic pollutants</td>
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<td>5</td>
<td>Medical wastes</td>
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<td>6</td>
<td>Decreasing of impact from burning of fallen leaves and wastes</td>
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<td>7</td>
<td>Waste management</td>
<td>+</td>
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<td>8</td>
<td>Introduction of economic stimulation of rational waste management, including of preferential taxation system</td>
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</table>
Aim - to assess the current transport sector in Kazakhstan, vehicle emissions, main policy and regulatory framework related to fuel quality and air pollution by transport.

An overview of the current state and trends in the country’s vehicle fleet structure, production and consumption of transport fuels, fuel quality standards and fuel economy policies adopted in the country.
Project “School Environment and Respiratory Health, SEARCH II” (jointly with REC, Italy and CAREC), 2011-2013

Participants: 10 countries, incl. Kazakhstan and Tajikistan

Target group: Students, teachers and parents from 10 pilot schools in each country

Components:
• environmental monitoring;
• energy assessment in the classrooms;
• survey of children's health and educational activities in the schools in the targeted countries.

Objective: to improve children's health and the environment in schools through three sectors - environment, health and education
9.(c) To advocate the health benefits of sustainable production and consumption, a transition from fossil to renewable energy in an appropriate time frame, the use of clean and safe technologies, and **shift to a low-emission and energy efficient transport and mobility** integrated with urban and spatial planning.
Project “Sustainable Low Emissions Transport” (UNEP/KZ), 2017-2018

Country: Kazakhstan  
Duration: June 2017 - December 2018  
Donor: UNEP  
Manager of Project: Mrs. Shynar Toilybayeva, Director of CAREC CO in Kazakhstan, shtoilybayeva@carececo.org  
Short description: To study the trends and opportunities for fuel economy in electro-mobility in Kazakhstan. The project may contribute to the development of appropriate regulatory measures to promote more efficient vehicles; estimates and current greenhouse gas emissions from transport sector, as well as scenarios of work dynamics.
Project “Sustainable Low Emissions Transport” (UNEP/KZ), 2017-2018

Research work:
- determination of basic indicators of the transport sector in Kazakhstan;
- modeling scenarios for the development of the transport sector in Kazakhstan and fuel efficiency indicators;
- formation of a database on the country's transport, containing information on the main parameters of the fuel efficiency of the vehicle fleet;
- conducting additional data collection to determine the basic fuel efficiency indicators of the road transport sector in Kazakhstan.
Outcomes:

- A national vehicle inventory has been developed and a baseline and fuel economy trend has been determined.
- Forecast of average fuel consumption in the transport sector for the long term, under various scenarios for the development of policies in this area.
- Projections for greenhouse gas emissions from transport sector.
- Evaluation of the effectiveness of various regulatory instruments in Kazakhstan.
Содействие развитию чистого транспорта в Казахстане

**Период:** Июнь 2017 – Декабрь 2018

**Донор:** UNEP

**Место реализации:** Казахстан

**Менеджер проекта:** Шынар Тойлыбаева, Директор СО РЭЦЦА в Казахстане, shtoilybayeva@carececo.org

**Краткое описание:** Исследование трендов и возможностей для экономии топлива в автотранспортном секторе Казахстана. Проект может способствовать разработке соответствующих мер регулирования для продвижения более экономичных транспортных средств; оценке и текущих выбросов парниковых газов от автомобильного транспорта, а также сценарии последующей динамики.
Задачи проекта

1. Разработка национальной инвентаризации транспортных средств и определение базового уровня и тенденций экономии топлива;

2. Проведение оценки текущих мер регулирования, и их долгосрочное воздействие на топливную экономичность автотранспортного парка в Казахстане;

3. Итоги исследования позволяют оценить наиболее действенные меры для повышения экономии топлива в секторе.
Исследовательская работа

1) определение базовых показателей автотранспортного сектора в Казахстане;
2) моделирование сценариев развития автотранспортного сектора в Казахстане и показателей эффективности использования топлива;
3) формирование базы данных по автомобильному транспорту страны, содержащую информацию об основных параметрах топливной эффективности автомобильного парка;
4) проведение сбора дополнительных данных для определения базовых показателей топливной эффективности автотранспортного сектора в Казахстане.
Результаты

- Разработана национальная инвентаризация транспортных средств и определен базовый уровень и тенденций экономии топлива.
- Прогноз среднедушевого потребления топлива в автотранспортном секторе на долгосрочный период, при различных сценариях развития политики в этой сфере.
- Прогнозы по выбросам парниковых газов от автомобильного транспорта.
- Оценка эффективности различных инструментов регулирования в условиях Казахстана.
CAREC’s role as a facilitator of E&H

CAREC’s opportunities

- THE PEP Transport, Health and Environment Pan-European Programme promotion in CA region
- Cooperation with UNECE Air Convention secretariat in frames of the Program on countries capacity building
- European process "Environment and Health" in CA region
Thank you for attention!