

# ICE-SRM Central Asia

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## SUSTAINABLE ENERGY WEEK 2023

### BUILDING RESILIENT ENERGY SYSTEMS



**UNECE**

# ICE-SRM-CA project concept

## 01 Purpose

Establishment of an international center of excellence for the sustainable management of natural resources (renewable and non-renewable).

## 03 Toolkit

Contribute to Independent States plans for sustainable resource management, including through the application of the United Nations Framework Classification (UNFC) and the United Nations Resource Management System (UNRMS) in Kazakhstan and Central Asian countries.

## 02 Objectives

Principles for achieving environmental and energy balance to achieve sustainable development goals.

## 04 Coverage

Exchange of experience and assistance in the implementation of the international standard on sustainable development and resource management at the UNECE platform.

## 05 Technology

Mobilizing international technologies to achieve sustainable development in Central Asia.

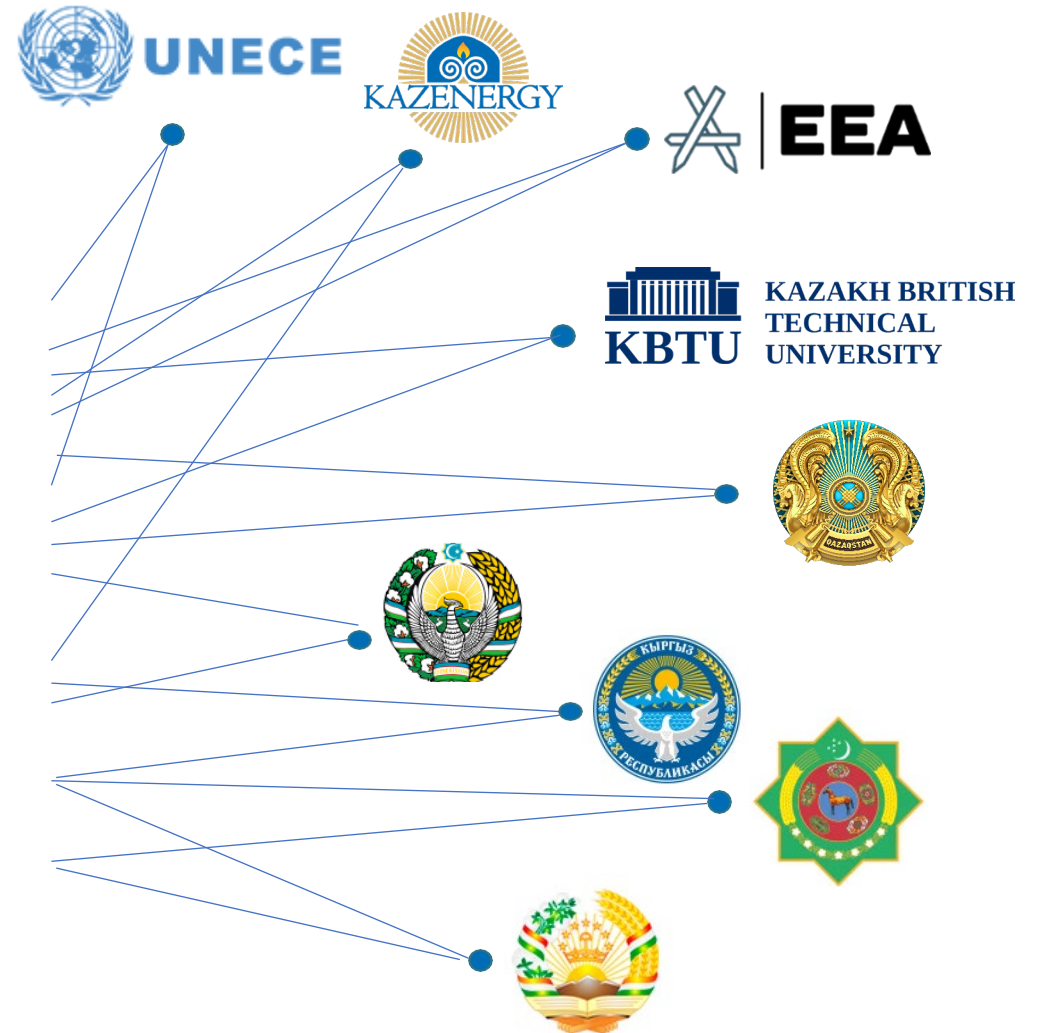
# Project Stakeholders

## PROJECT INITIATORS

- ✓ UN Economic Commission for Europe (UNECE)
- ✓ KAZENERGY Association (KAZENERGY)
- ✓ Kazakhstan-British Technical University (KBTU)
- ✓ Eurasian Engineering Association (EEA)

## THE PROJECT CAN BE SUPPORTED

- ✓ Major resource operators (oil and gas, mining, renewables)
- ✓ Authorized Bodies of Central Asia
- ✓ Quasi-public sector
- ✓ Private subsoil users
- ✓ Central Asia banks and stock exchanges
- ✓ International financial institutions



# Project Goals

- ✓ Ensuring sustainable development of the mineral resource base of Central Asian countries, including hydrocarbons, uranium, coal, rare and rare-earth metals.
- ✓ Introduction of reserve classifications in Kazakhstan that meet international requirements.
- ✓ Promotion of UNFC and UNRMS in Central Asian countries.
- ✓ Creating conditions for sustainable development of the resource base in Central Asian countries.
- ✓ Increasing the investment attractiveness of Central Asia commercial projects.
- ✓ Opportunities to ensure access to essential raw materials (CRMs) for the transition to low-carbon neutrality in the UNECE region, with a special focus on Central Asia.
- ✓ Increasing importance of Central Asia in the supply of critical raw materials (CRMs).
- ✓ Promoting environmental investment and unlocking the region's potential.
- ✓ Importance in clean energy production, energy decarbonization.
- ✓ Research and development activities.
- ✓ Exchange of experience at the UNECE (EGRM) platform.
- ✓ Training and certification of industry experts.

# Uniqueness of the project

## 01 Interaction

The creation of ICE-SRM-CA in Kazakhstan and the implementation of the proposed solutions will, for the first time, allow intergovernmental interaction based on national classifications bridged to UNFC between:

- Central Asian member countries,
- Financial institutions (banks, stock exchanges),
- Mining companies and auditing companies in reserve estimation and financial reporting.

## 02 Resource Management

An EU-recognised system of resource management in Central Asian countries will allow a more objective assessment of the resource potential of these countries, as well as:

- To enable the creation and development of additional economic and production chains,
- Increase energy security of CA countries with the formation of important elements of strategic planning,
- Achieve the Sustainable Development Goals in the CA region,
- Ability to implement financial reporting for use on stock exchanges anywhere in the world.

## 03 Technology Transfer

Enabling an effective technology transfer process to ensure sustainable development goals:

- Creation of legal and infrastructural frameworks,
- Capacity building and learning,
- Collaboration and partnerships,
- Financing and investment,
- Adaptation of technology to local context

## Prerequisites for the transition to the international system of standards for reporting hydrocarbon reserves

- Reliability of information on the state of Kazakhstan's resource base
- Increasing the investment attractiveness of Kazakhstan's extractive industries
- Increased investment in geological exploration
- Lack of a recognized resource management system in Kazakhstan and Central Asian countries



# Proposals for the establishment of an International Center of Excellence for Sustainable Resource Management Central Asia (ICE-SRM-CA)

01



## ICE-SRM-CA

Establishment of the International Center of Excellence for Sustainable Resource Management (ICE-SRM-CA) in Kazakhstan based on the principles of sustainable development of resource management.

02



## Promotion

Continuous promotion benefits of UNFC and UNRMS for countries in CA region.

03



## Case Studies

Develop platform for systematic work on the development of case studies, scientific work, methodological recommendations.

04



## Experts

Establish a unified expert community in Central Asian, including training and accreditation.

05



## Regulations

Development of proposals to improve State Regulations to archive sustainable developments goals in resource management.

## Expected results

- 1 Promotion and recognition of UNFC and UNRMS as sustainable tools for classification and resource management in the CA region.
- 2 Development of a technological innovation platform to address regionally and nationally specific challenges in sustainable resource management.
- 3 Introduce financial reporting standards based on the new Kazakhstan classification of hydrocarbon reserves.
- 4 To legislate on the Institute of Experts and Competent Persons.
- 5 To ensure international recognition of CA experts.
- 6 To improve the reliability of data on the natural resource potential of CA.
- 7 Create a sustainable and transparent platform for investor activity in CA countries.



## Key projects on the Sustainable Development – Kazakhstan

- 1 Adoption of the International Classification of Reserves, creation of a unified resource management system of the Republic of Kazakhstan.
- 2 Study of coal chemistry and coalbed methane extraction for further use in the domestic market of the country.
- 3 Extraction of rare earth elements from co-produced water at oil fields, using modern technologies available.
- 4 Deep processing of co-produced water from mining industry with subsequent use of water for agricultural needs (irrigation).
- 5 Study of hydrogen energy development potential in the country.
- 6 Adoption of measures and best world practices to stimulate geological exploration to increase the hydrocarbon resource base within the framework of the resource management system in accordance with the message of the President of Kazakhstan.

# Main activities of ICE-SRM-CA

1

## RMS Blueprint

Workshops bringing together CIS institutions to disseminate UNFS principles using the New Kazakh RMS system as an example.

2

## Financial consultancy

Financial consultancy to banks and stock exchanges in CIS countries and the International Accounting Standards Board (IASB).

3

## RMS Methodology

Development of methodological documentation and guidelines use in training purposes in higher education institutions.

4

## Training

Training courses, training of experts/competent persons, including formal recognition procedure, certification.

5

## Case studies

Preparation of case studies and application scenarios of UNFC and UNRMS for the sustainable development of natural reserves and resources.

6

## Collaboration

Collaboration with the network of Centres of Excellence and the Resource Management Expert Group (and its Bureau).

7

## Promotion of CA potential

Promoting environmental investment and unlocking the potential of the Central Asian region.

8

## STG Reporting

Development and implementation of financial, social, environmental reporting guidelines.

9

## Technology and IT

Support of research and development projects involving technology and IT, that spearhead industry advancements and facilitate sustainable growth.



**THANK YOU FOR YOUR ATTENTION  
AND WELCOME TO ICE-SRM-CA!**