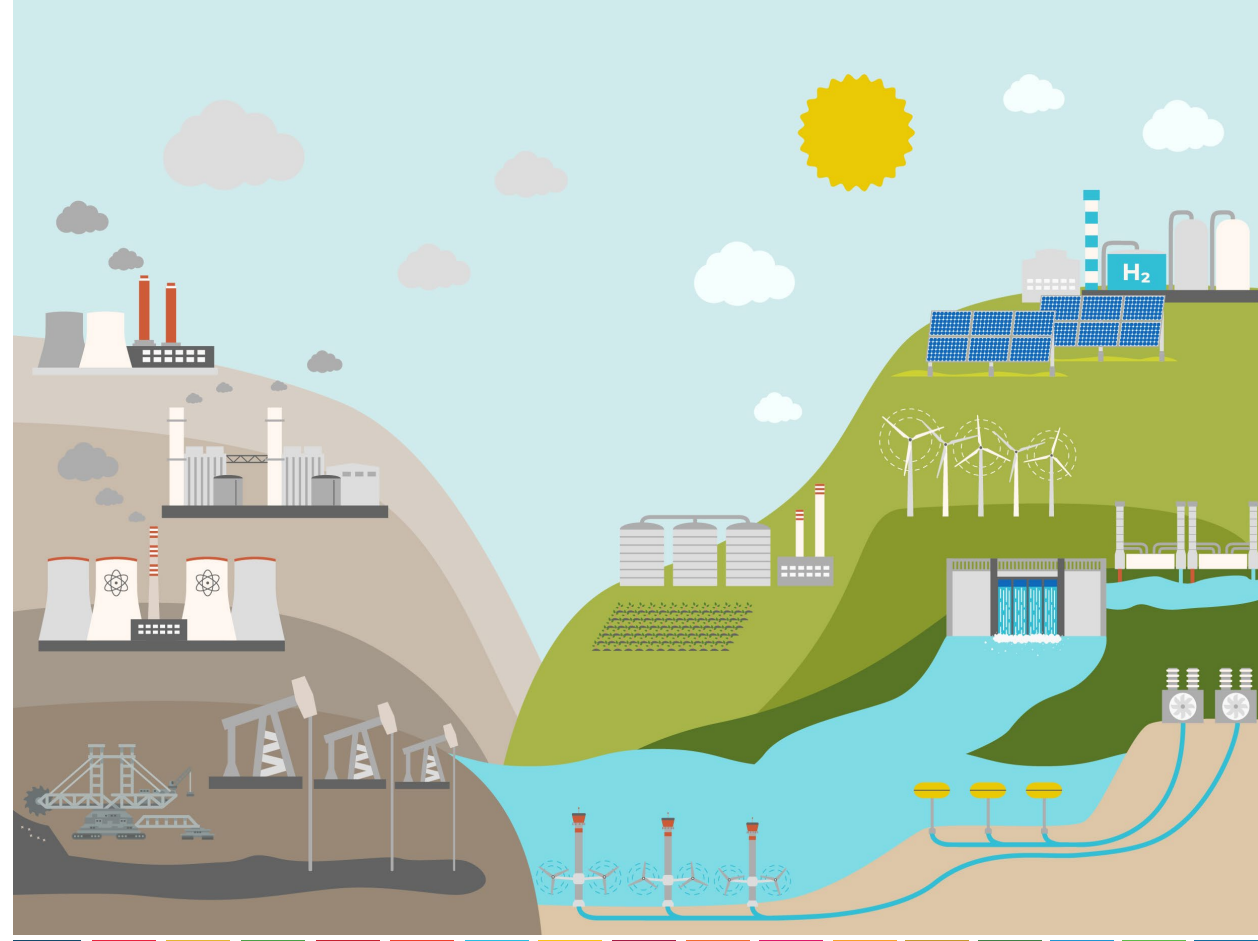




ICE-SRM CA
Sustainable Resource Management

**International Centre of
Excellence for Sustainable
Resource Management
Central Asia.**

Geneva, 22-26.04.2024



**RESOURCE MANAGEMENT WEEK
2024**



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- ✓ On September 13, 2023, a letter of approval of the center was received
- ✓ The founders of the center are KBTU JSC, KAZENERGY Association and Eurasian Engineering Association
- ✓ The Center was registered in accordance with the legislation of the Republic of Kazakhstan on April 4, 2024.
- ✓ The Administration of the President of the Republic of Kazakhstan, the Ministry of Energy; Ecology and Natural Resources; Industry and Construction of the Republic of Kazakhstan have been informed about the creation of the center
- ✓ Explanatory meetings were held with representatives of interested organizations
- ✓ The Center has started its work and has identified a number of key goals and projects for 2024



Ref.: UNECE/2023/SED/41

13 September 2023

Dear Mr. Babashev

The Sustainable Energy Division of the United Nations Economic Commission for Europe (UNECE) has noted with appreciation the progress to establish an International Centre of Excellence on Sustainable Resource Management (ICE-SRM) for Central Asia. The goal of ICE-SRMs is to provide dissemination, policy support, technical advice and consultation, education, capacity-building and training on the United Nations Framework Classification for Resources (UNFC) and the United Nations Resource Management System (UNRMS).

I am pleased to recall the recent decision of the intergovernmental UNECE Committee on Sustainable Energy taken at its 32nd Annual Session, Geneva, 13-15 September 2023:

"Noted the progress to establish International Centres of Excellence on Sustainable Resource Management (ICE-SRM) in the ECE region and beyond. Further noted the importance of the ICE-SRMs whose establishment is being discussed to provide dissemination, policy support, technical advice and consultation, education, capacity-building and training on UNFC and UNRMS in the ECE region and beyond, and requested an update at the thirty-third session on the ICE-SRMs and on any progress to establish a collaborative network of those centres coordinated by the secretariat and in full compliance with the adopted ECE standards and guidelines. Called upon member States to provide resources to support establishing ICE-SRMs in the ECE region, including in Central Asia."

The intent is for UNECE to support a collaborative network of the ICE-SRMs being established worldwide. This would be coordinated by the UNECE Secretariat and in full compliance with the adopted UNECE standards and guidelines.

We look forward to working with you as you proceed with the establishment of the ICE-SRM Central Asia and request that you keep us informed on progress.

Yours sincerely



Dario Liguti
Director
UNECE Sustainable Energy Division

Mr. Victor Babashev
Director
Association of Legal Entities "Eurasian Engineering Association"
Almaty
Kazakhstan

Memorandum of Understanding and cooperation were signed between the Center ICE-SRM-CA and:

- ✓ *Ministry of Energy of the Republic of Kazakhstan;*
- ✓ *Ministry of Ecology and Natural Resources of the Republic of Kazakhstan;*
- ✓ *Ministry of Industry and Construction of the Republic of Kazakhstan;*
- ✓ *Kazakh National Research Technical University named after K. Satpayev;*
- ✓ *Institute of Geology and Oil and Gas Business named after Turysov.*
- ✓ *Institute of Hydrogeology and Geoecology named after Akhmedsafin.*

The issue of signing Memorandum with national oil and gas companies and other interested organizations is being worked out.



The main tasks of the ICE-SRM CA Center



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- ✔ Explaining the goals of sustainable development and sustainable resource management, including the promotion of the UNFC and the UNRMS in Central Asian countries
- ✔ Assistance in the implementation of Classifications of hydrocarbon reserves and Resources in the Republic of Kazakhstan and Classification of groundwater reserves that meet international requirements and their recognition on international platforms through binding documents
- ✔ Assistance in the introduction of new methods and technologies in the direction of geological exploration, extraction, deep processing of minerals in the Republic of Kazakhstan and the development of appropriate methodological recommendations and regulatory documents for them
- ✔ Assistance in the implementation of the environmental agenda, decarbonization, including unlocking the potential of renewable energy sources
- ✔ Assistance in the development of the country's expert potential, the creation of a unified expert community in Kazakhstan and assistance in the international recognition of experts
- ✔ Assistance in the development of scientific and methodological documents and manuals for teaching university students and explaining the principles of sustainable resource management and sustainable development
- ✔ Assistance in the implementation of scientific developments in the extractive industry



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Coordination of the Center's work ICE-SRM-CA

- ✔ Presentation of the Center ICE-SRM-CA at the annual UNECE Resource Management Week in April 2024, Geneva.
- ✔ Discussion of the Center's goals and detailed work plan ICE-SRM-CA with the UNECE Resource Management Expert Group
- ✔ Approval of the detailed work plan at the meeting of the UNECE Committee on Sustainable Energy in September 2024, Geneva

Work plan of the Center ICE-SRM-CA

- ✔ Development of a new Classification of hydrocarbon reserves and resources and Classification of groundwater reserves
- ✔ Development of regulatory, technical and methodological documentation to achieve the goals of sustainable resource management
- ✔ Participation in the development of requirements for the elimination of the consequences of subsurface use
- ✔ Conducting the analysis of Best Practice in geological exploration, production, complex extraction of useful components and enhanced oil recovery for further implementation in Kazakhstan
- ✔ Assistance in the implementation of the environmental agenda, decarbonization and unlocking the potential of the region in renewable energy
- ✔ Exchange of experience on the site of the UNECE and ICE SRM centers around the world
- ✔ Development and approval of uniform requirements for independent experts on hydrocarbons, creation of a unified expert community in Kazakhstan
- ✔ Participation in the digitalization of business processes in the oil and gas and energy industries



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- ❖ Adoption in Kazakhstan of a new Classification of hydrocarbon reserves and Classification of groundwater reserves that meet international requirements, assistance in creating a unified resource management system in the Republic of Kazakhstan
- ❖ The introduction of technologies for the extraction of critically important raw materials from associated water in oil and gas fields, including through amendments to legislation and R&D
- ❖ Studying the issues of complex processing of man-made mineral formations and extraction of critically important raw materials using new technologies
- ❖ Studying the issues of hydrogeology, groundwater and geothermal energy
- ❖ Taking measures to stimulate exploration in order to increase the resource base of minerals
- ❖ Studying the issues of coal chemistry and methane extraction from coal seams for further involvement in the country's economy



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The concept of a new Classification for hydrocarbons

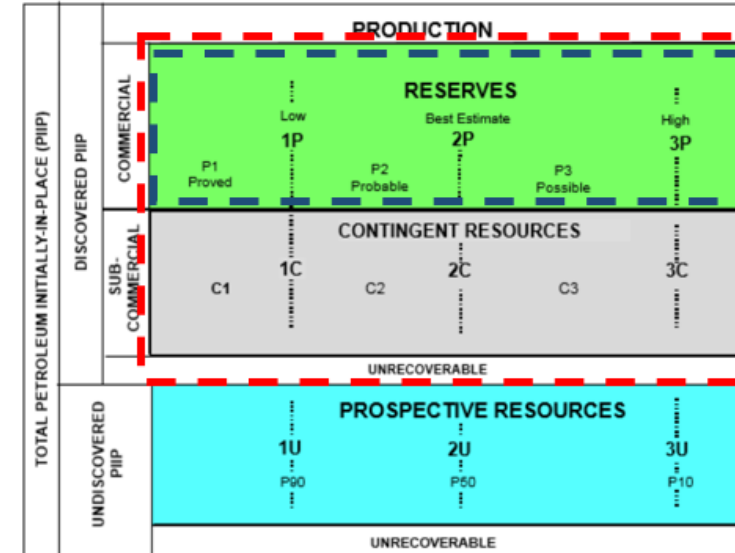


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4 Production started

Project type	Discovered (Production started)
Requirements to data	
Approved Development Project by Kaz Legislation	Mandatory
Approved Inplace volumes by Kaz Legislation	Mandatory
Seismic 2D/3D	Mandatory
Owc geometry defined	Mandatory
Log/RCA data	Mandatory
SCAL data	Mandatory
PVT model	Mandatory
Well test data	Mandatory
Development units	Mandatory
Minimum inplace category	B2
Maximum inplace category	A1



Reserve categories by well influence radius

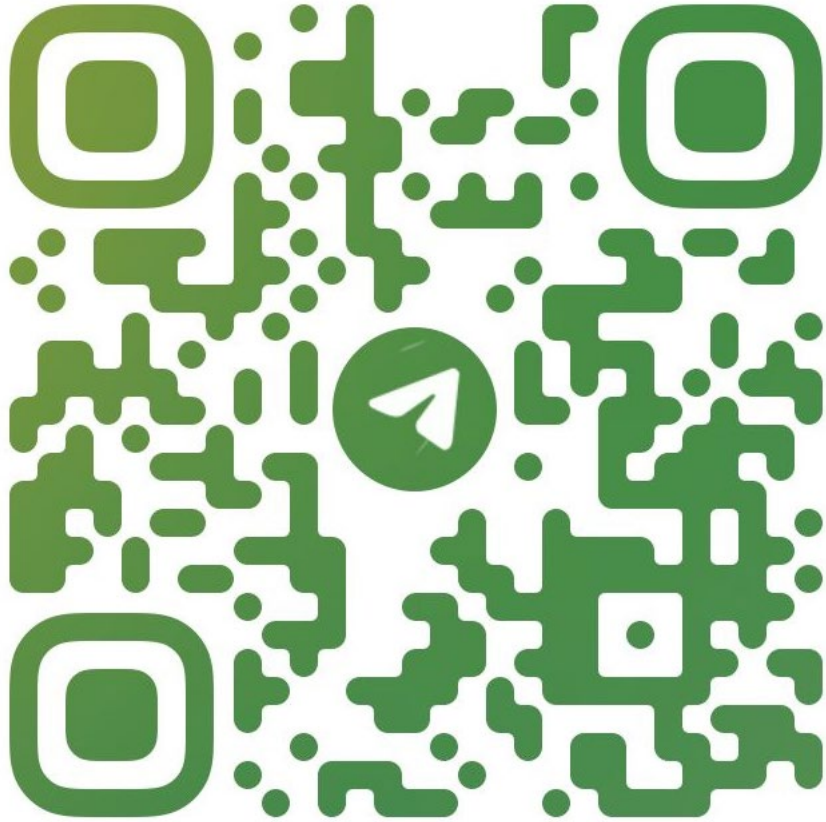
Inplace volumes (Reserves+Resources+Nonrecoverable)	A1	A2	B1	B2	C1
Economically feasible to extract (Reserves)	A1_1	A2_1	B1_1	B2_1	C1_1
Reserves by SPE-PRMS classification range	P1	P1-P2	P1-P3	P2-P3	P3
Log/RCA data	Mandatory	Mandatory	Mandatory	Mandatory	
Well test data	Mandatory	Mandatory	Mandatory	Mandatory	
On production - less than 5 years	Mandatory	Mandatory	Mandatory		
On production - from 5 to 10 years	Mandatory	Mandatory			
On production - more than 10 years	Mandatory				

Existing classification (inplace volumes)	A	B	B	C1	C2
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Telegram channel ICE-SRM CA



@ICESRMCA



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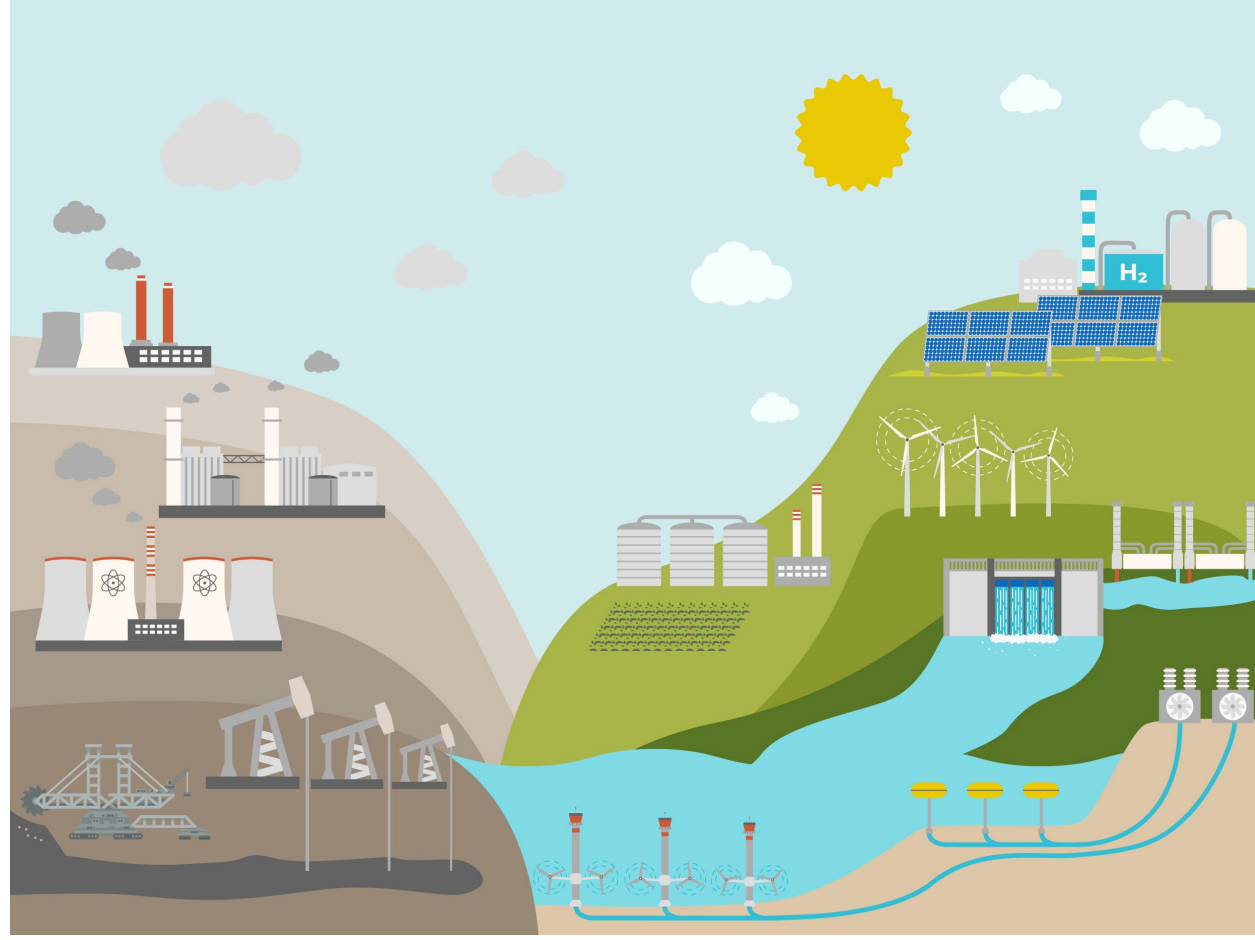
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THE VIEWS EXPRESSED ARE THOSE OF THE AUTHOR AND DO NOT NECESSARILY REFLECT THE VIEWS OF THE UNITED NATIONS.

Thank you!

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UNECE
25 | 04 | 2024, Geneva



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