



SEMURG
INVEST

Kuryk Port - a sustainable ESG gateway between Middle East, Europe and Asia

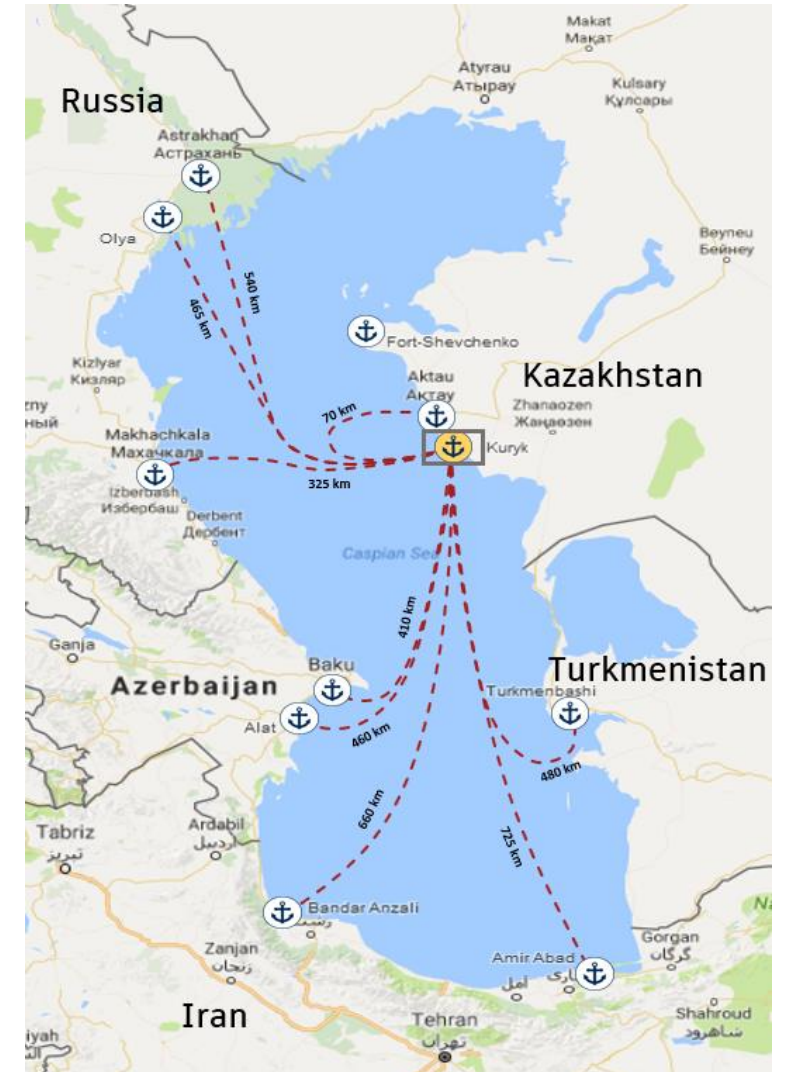


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CEO Semurg Invest

24 January 2024
Abu-Dhabi

Kuryk port - a sustainable ESG gateway between Middle East, Europe and Asia

- With the **world becoming more intense** due to **international conflicts and sanctions**, there is a significant need for innovative trade routes that significantly increase trade and logistical efficiency
- **Port Kuryk is a key member** of the middle corridor, which allows for the **quickest and most efficient bridge** between **Europe and Asia**. This is evident from a **10x increase in TransCaspian trade flows**, which was achieved through record-breaking collaboration between more than 10 countries
- General trade turnover between Europe and Asia **growing every year** and **achieving 1,5 trillion \$**, where **Port Kuryk** is becoming more **sustainable and stronger** on the world map of transportation.



Kazakhstan's export/import structure

Natural resources



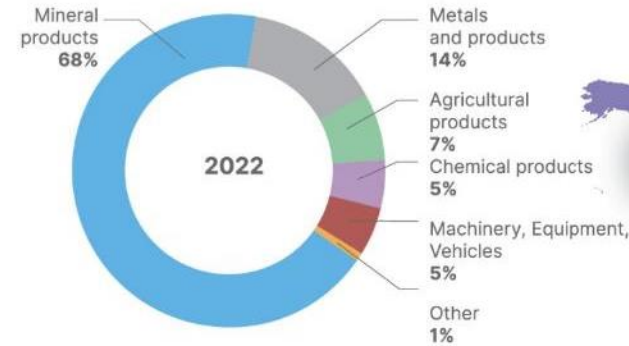
Kazakhstan is a country with an abundant mineral resource base. There are deposits in the country: hydrocarbons – 326, solid minerals – 920, common minerals - 3,000.

Kazakhstan is in the top ten of the world in terms of reserves/production of chromium, uranium, barite, lead, zinc, titanium, gold, silver, manganese, molybdenum, iron ore, bauxite, asbestos, bismuth, cadmium, magnesium, silicon, coal.

		Reserves	Production		Reserves	Production	
Chromium		1	2	Coal		9	8
Uranium		2	1	Bauxite		9	11
Barite		2	4	Copper		11	10
Rhenium		4	7	Iron Ore		11	15
Zinc		6	11	Oil		12	11
Lead		7	12	Gold		13	6
Manganese		8	14	Natural gas		14	17

Source: US Geological Survey, International Trade Administration, World Bank Group

Kazakhstan's export structure by product groups, %

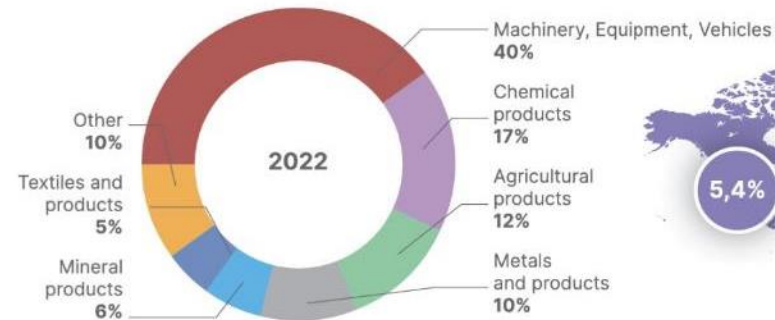


Source: Bureau of National Statistics ASPR RK

Export geography



Kazakhstan's import structure by product groups, %

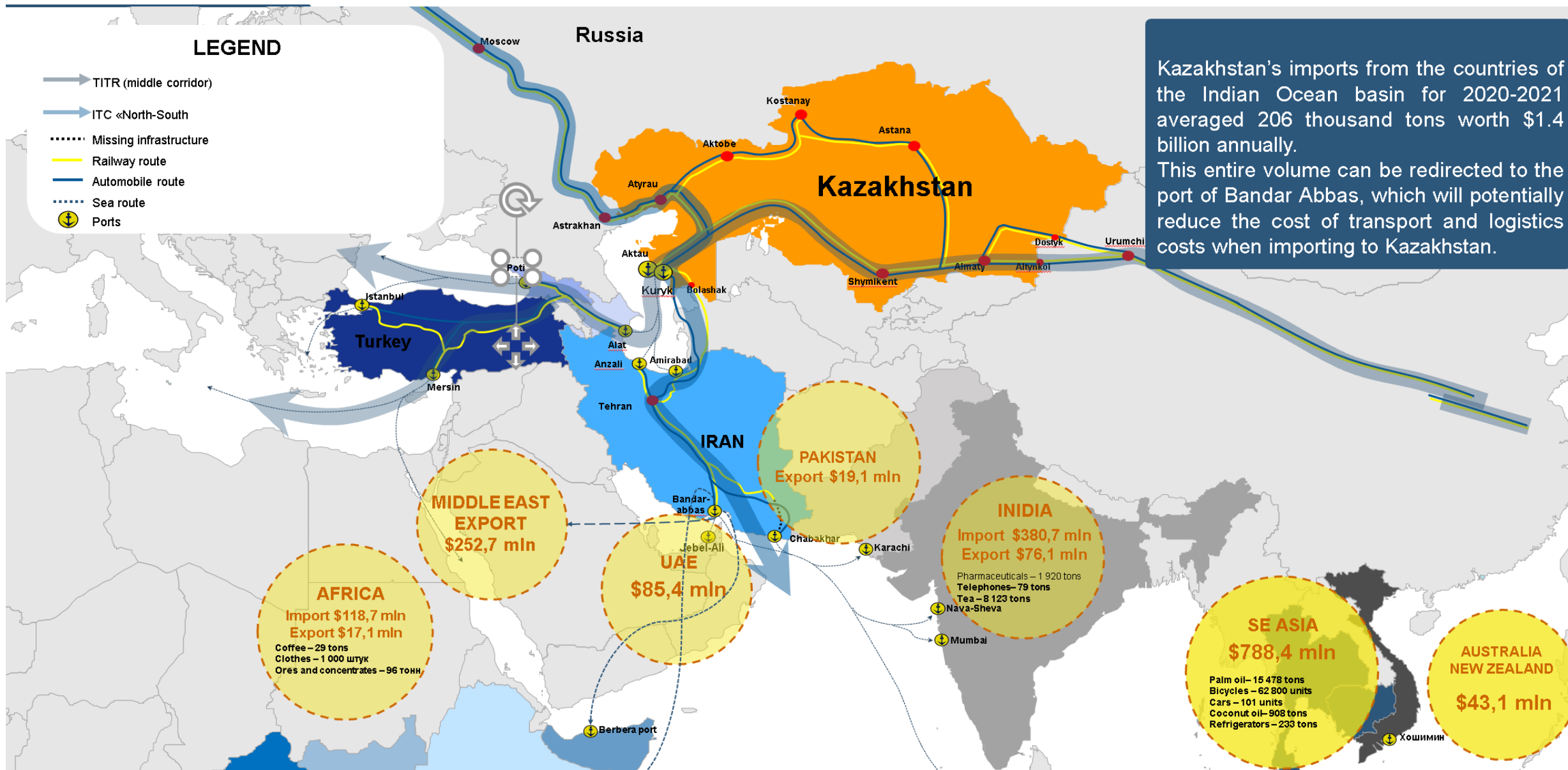


Source: Bureau of National Statistics ASPR RK

Import geography




IMPORT-EXPORT POTENTIAL OF KAZAKHSTAN




Export potential of Kazakhstan via North-South Corridor

Product	Free capacity
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 Flour and grains **9,9 mln. tons**

 Animal feed **1,7 mln. tons**

 Canola oil **1,7 mln. tons**

 Sunflower oil **0,9 mln. tons**



26 Food industry goods

3,6 mln. tons

3 Types of beverages

2 023 mln. litres

India



Iraq



Kuwait



UAE



Pakistan



Saudi Arabia



Turkey



~\$387 mln.

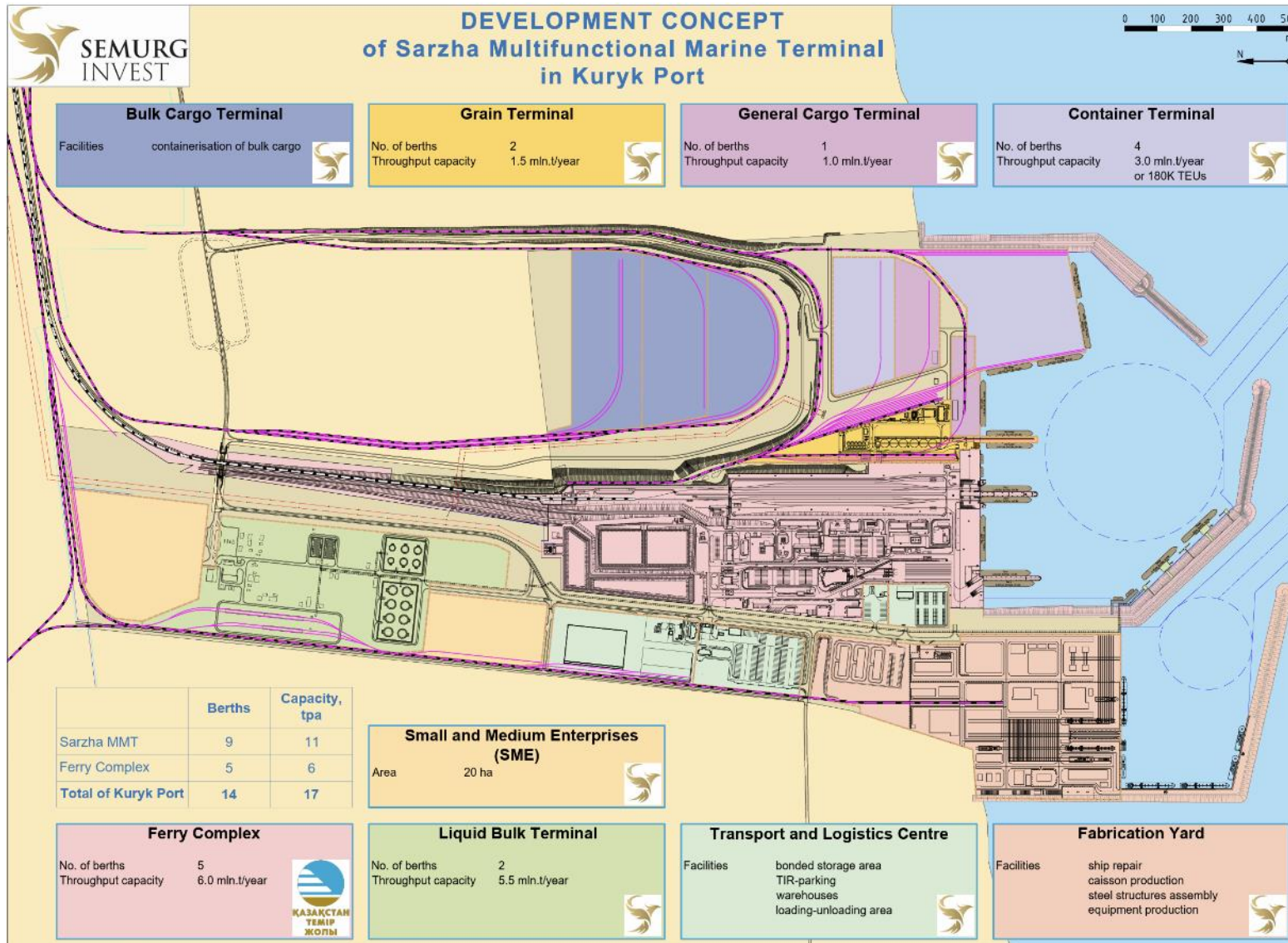


The production capacity of the industry of the Republic of Kazakhstan makes it possible to increase processing volumes in the presence of stable sales on the foreign market.



Involving OIC countries in the implementation of the project can facilitate the entry of Kazakhstani products into these markets (Islamic Organization for Food Security)

Kuryk port – new port on the map of the Caspian Sea



Kuryk port as a sustainable ESG gateway between Middle East, Europe and Asia

Kuryk Port has commissioned infrastructure:

- National railway;
- National road;
- Dredged aquatoria;
- Breakwaters;
- Customs, border, phyto-sanitary control facilities;
- National grid line and sub-stations;
- Fire department, marine administration, hotel, canteen;
- Internal port railway network;
- Internal gas, electrical, telecoms networks;
- More than 5 million m³ of earthworks.



Kuryk port as a sustainable ESG gateway between Middle East, Europe and Asia



Company
website



Concept
website

Kuryk port - a sustainable ESG gateway between Middle East, Europe and Asia



General plan 3D



Transport Logistics center



Fabrication yard



Eagle view



Universal terminal



Liquid Bulk Terminal



Grain Terminal

Kuryk port as a sustainable ESG gateway between Middle East, Europe and Asia



- On September 29, 2023 during the Transcaspien International Transport Route's meeting in Aktau, **official opening ceremony** of the **Sarzha Multifunctional Terminal** was inaugurated with the participation of the Local Government officials, who has officially launched first operations.
- General Cargo Terminal of MMT Sarzha project has received its first cargo and on October 27th first ship of ASCO – “Huseyn Javid” has berthed at Sarzha Cargo Terminal. As of today more than 30 000 tons of metals (Copper, Lead, Aluminum) has been exported to the Port of Baku (Alat).
- First grain transshipment is expected in 1Q2024 by using direct transshipment equipment.



Kuryk port as a sustainable ESG gateway between Middle East, Europe and Asia



SUSTAINABLE DEVELOPMENT GOALS
17 GOALS TO TRANSFORM OUR WORLD



GREEN Ammonia Export Route

GREEN EV-Charging project

GREEN Organic Fish project

GREEN Olive Forestry project

GREEN Lithium Exploration

Kuryk port as a sustainable ESG gateway between Middle East, Europe and Asia

- **Semurg Invest and Hyrasia One**, Svevind Energy's Kazakhstan-based renewable hydrogen and ammonia mega-project, **signed a Exclusive memorandum of cooperation** on transshipment of green ammonia through SEMURG Invest terminal in Kuryk Port.
- Located on the Kazakh Steppe in the Mangystau region, at full capacity the project is expected to produce 2 million tonnes of renewable hydrogen or 11 million tonnes of ammonia per year. For the most part, it is planned to use **Transcaspian route via Kuryk Port**. Hyrasia One's has now entered the pre-FEED phase with plans to start **production by 2030**.
- **Kuryk Port will play a key role** in establishing regional green hydrogen infrastructure and value chain by:
 - **Creating green hydrogen/ammonia export** potential with a new dedicated terminal facility in the Caspian sea
 - **Providing import opportunities** for equipment and materials to build and develop renewable projects in the region



GREEN Ammonia Export Route



Hyrasia One Project

- 40 GW of renewable electricity
- 20 GW electrolysis capacity
- 2 mta green H2 or 11 mta NH3



Memo

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Kuryk port as a sustainable ESG gateway between Middle East, Europe and Asia

- We are one of the key investors in the development of electric vehicles (EVs) in Kazakhstan and Central Asia and we are **implementing an innovative project** to develop **electric transport infrastructure**.
- The project is aimed at **creating an ecosystem** that encourages businesses to **develop infrastructure for electric transport**. The basis of the ecosystem is the **Power HUB software package**, which **integrates owners of charging stations and cars** into a single **information system**.
- The project has been put into commercial operation. EPS operator stations and private charging stations are connected.
- Future plans – in 2024, it is planned to **connect more than 50%** of the **country's charging stations** to a unified information network.
- For internal needs, we start using electric vehicles to transport employees to the port. Our bases and cars now - **net zero** to CO2 and diesel fuel.
- Investors can also join to **Green EV Charging Project**.

GREEN EV-Charging project



PowerUp
project
website

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POWER HUB

Kuryk port as a sustainable ESG gateway between Middle East, Europe and Asia

- **Development of marine aquaculture for rearing of sea trout (*Oncorhynchus mykiss*) in cages in the Kazakh sector of the Middle Caspian Sea with a projected capacity of 5 000 tons, and with the prospect of entering the global market.**
- **Only natural high-quality feed is used for feeding. Being a low-carbon and high-value source of protein, the sea trout contains a high concentration of vitamins, minerals, and essential fatty acids like Omega-3 and Omega-6. Naturally, sea-grown sea trout is a 100% organic product that meets European and Kazakh quality standards.**
- **The project provides for the transfer of advanced fish farming technologies to Kazakhstan, as well as an ecosystem approach to managing marine aquaculture. The preliminary stages are finished, and now we are moving to the construction phase.**

GREEN Organic Fish project



Organic Fish
Project
website

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Kuryk port as a sustainable ESG gateway between Middle East, Europe and Asia

- Kazakhstan's first-ever experimental plantation of Olive trees took place in May 2023. **6000 seedlings** of the **Gemlik** variety were planted in 3 regions with the most suitable climatic and biochemical characteristics. One of these locations is **near Port Kuryk** – and **we are one of the partners** of this project.
- **The First Association** for the Cultivation of Olive in **Kazakhstan "KazOlive"** was formed, with plans to **join the International Olive Council (IOC)** (May 2024) to share knowledge, support, and attain international quality accreditation for the production of sustainable olive-based products.
- Olive trees provide a **significant green effect**: 1 adult tree provides **oxygen to two adults every day**, strengthens the **soil**, **absorbs 5.5 kg of Carbon/1L of olive oil produced**, bears fruit for **1000+ years**, and has a **zero-waste production and product with medical, nutritional, and sustainable applications**.
- Development potential of **up to 1-11 million seedlings** in case of success of experimental planting to be apparent by spring 2025. Investors **can join this green Olive Forestry project**. We have the **advantage of using Port Kyruk** as the **shortest** export-import route for olives, olive oil, and olive-based cosmetics products.
- Plans to produce in-house organic extra-virgin Olive oil for the inner market of Kazakhstan with the potential to export to the neighboring countries.

GREEN Olive Forestry project



Youtube

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ORDABASY OLIVE COMPANY

Svanidze

Olive



Q.V.M
Technology Kazakhstan

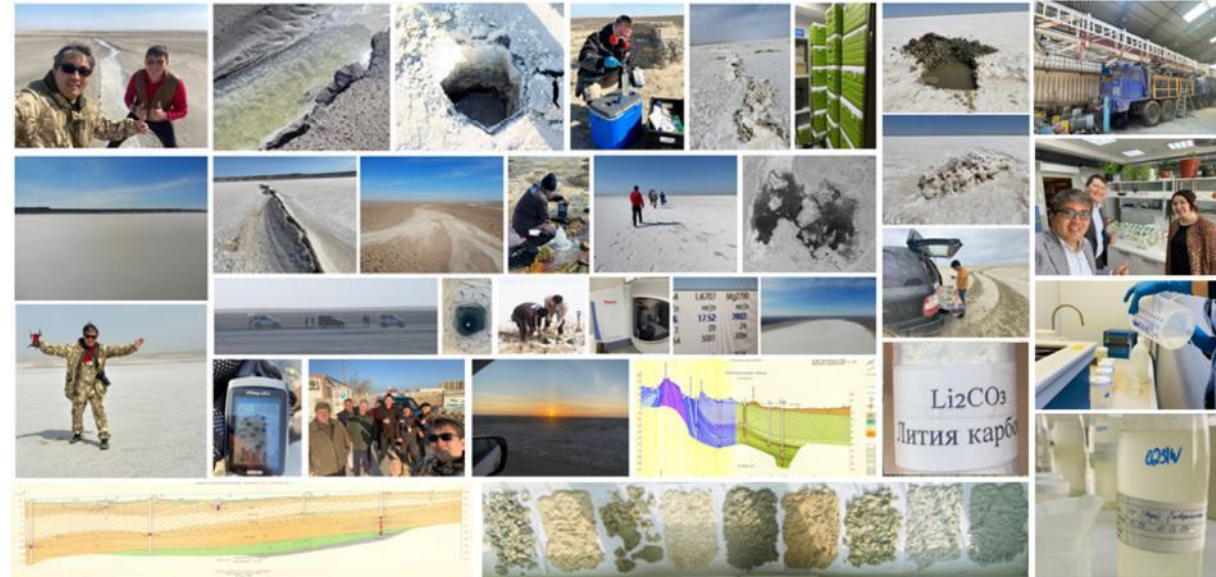


INTERNATIONAL
OLIVE
COUNCIL

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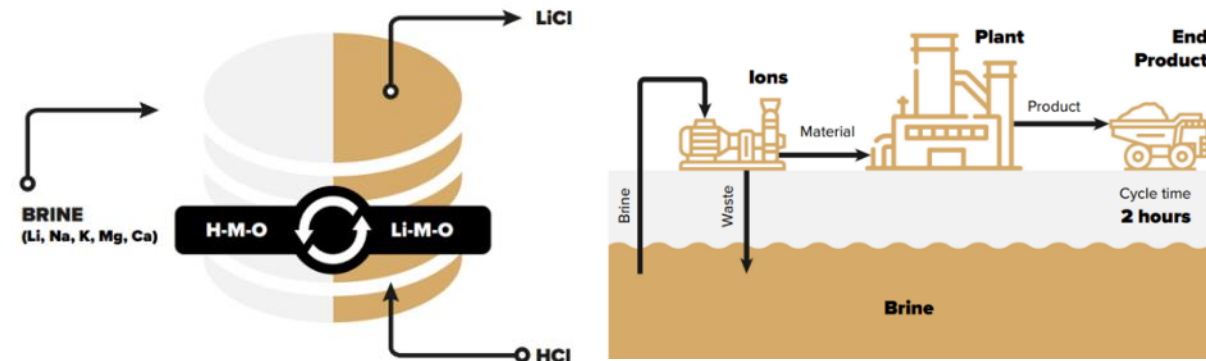
- The President of the Republic of Kazakhstan has announced the beginning of a new era of development of rare earth metals and lithium. Kazakhstan now already produces 18 of the 34 critical elements the world needs, and 5,000 undiscovered deposits with a total value of \$46 trillion.
- Disruptive innovations like Direct Lithium Extraction (DLE) technology, withdrawing lithium ions from industrial subsurface water, making this new industry perspective and green effective.
- Rocketing lithium prices make this project highly competitive in comparison with other projects. Green lithium is a key element for developing EVs, Batteries, and communications.
- In 2023 we started the lithium project to study and search for lithium reserves in the industrial groundwater of Kazakhstan, traveling more than 8,000 km, and having investigated more than 65 locations. Now, we are moving this project to the permitting phase and we are inviting Investors to take part in this green project.
- Port Kuryk will be the main exclusive route for exporting these new rare earth metals and elements.

GREEN Lithium Exploration



President's speech

ION EXCHANGE TECHNOLOGY



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Whitestone



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GREENER !