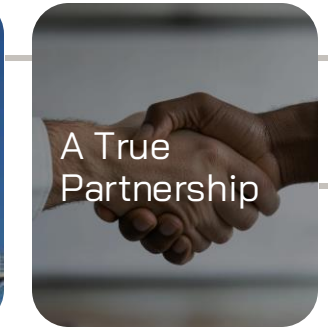
A pioneering CCS project in the Baltics

Baltic Carbon Forum, Tallinn

2025 10 09

We are KN Energies Group



LNG – GLOBAL OPERATIONS: we operate LNG terminals in Lithuania, Germany, and Brazil, and we are developing partnerships across Asia and other global regions.

LIQUID ENERGY PRODUCTS: at our terminals in Klaipėda, Subačius ir Marijampolė we handle and store a broad range of liquid energy products.

OPERATOR + INVESTOR: we offer both infrastructure operation and investment participation – ensuring flexibility and efficiency.

NEW ENERGIES SOLUTIONS: we are engaged in hydrogen carriers, CO_2 capture & storage (CCS), energy storage and sustainable fuel development projects.

TRUE PARTNERSHIP: we collaborate across all project stages – from concept to operation – fully adapting to project-specific needs.

KN Energies Group today

Lithuania | since 1959

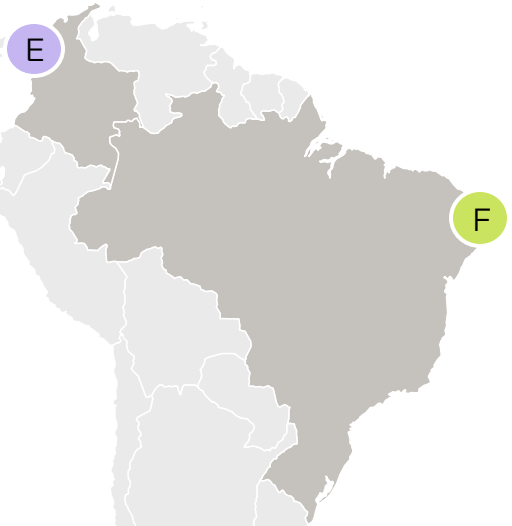
Italy | 2023

Germany | since 2022

Colombia | 2015-2016

Croatia | 2016-2018

Brazil | since 2020



Commercial and/or technical operation of LNG terminals

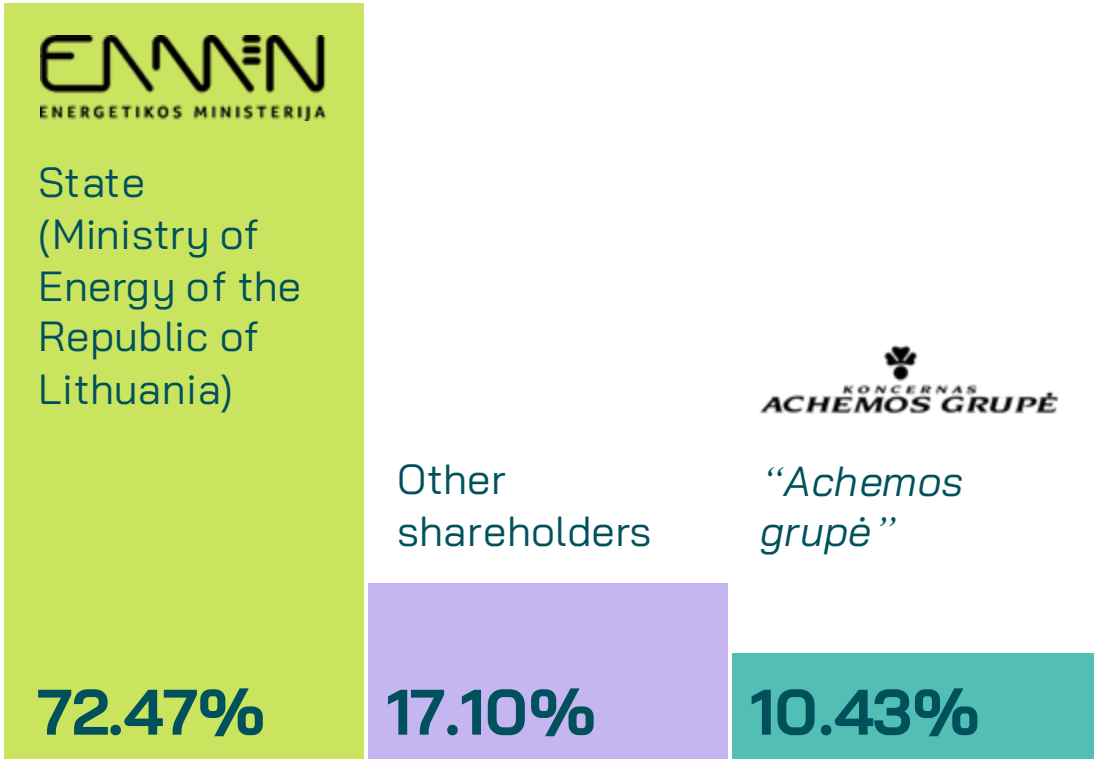
Consultations

Local office presence

Structure of KN Energies Group

KN Energies shares (KNE1L) are listed on the **NASDAQ** Vilnius Stock Exchange. **Majority shareholder** – the Republic of Lithuania

Shareholder structure



CREATING VALUE FOR THE STATE:

- Dividends – at least **50%** of annual net profit
- In 2024, **EUR 5 million** in dividends were paid out
- It is planned to pay in dividends at least **EUR 5 million** annually from 2026, **EUR 12 million** from 2030
- A total of no less than **EUR 240 million** will be paid in dividends over the period of 2031–2050
- KN Energies is among the Top 10 taxpayers in Lithuania.

KN ENERGIES GROUP COMPANIES:

Lithuania

KN Energies JSC and other companies

Germany

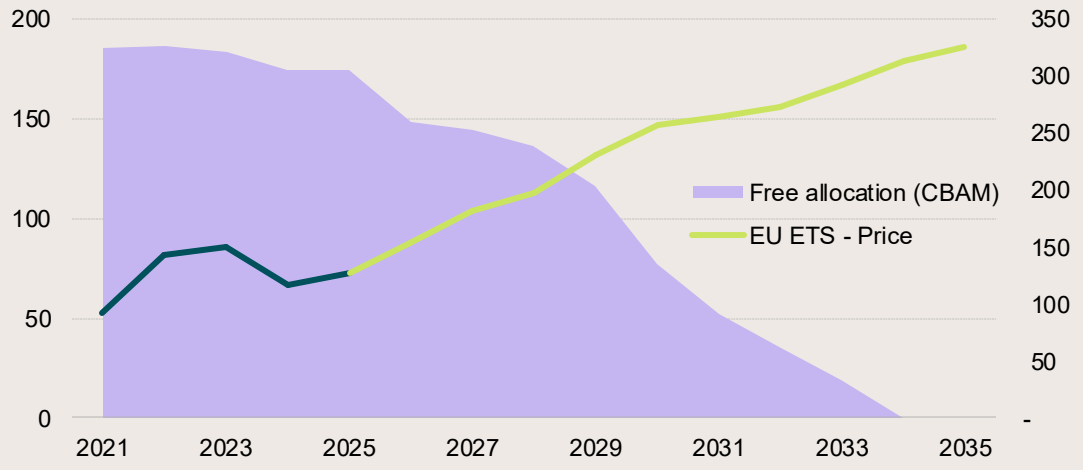
KN Energies Deutschland

Brazil

KN Açu Servicos de Terminal de GNL

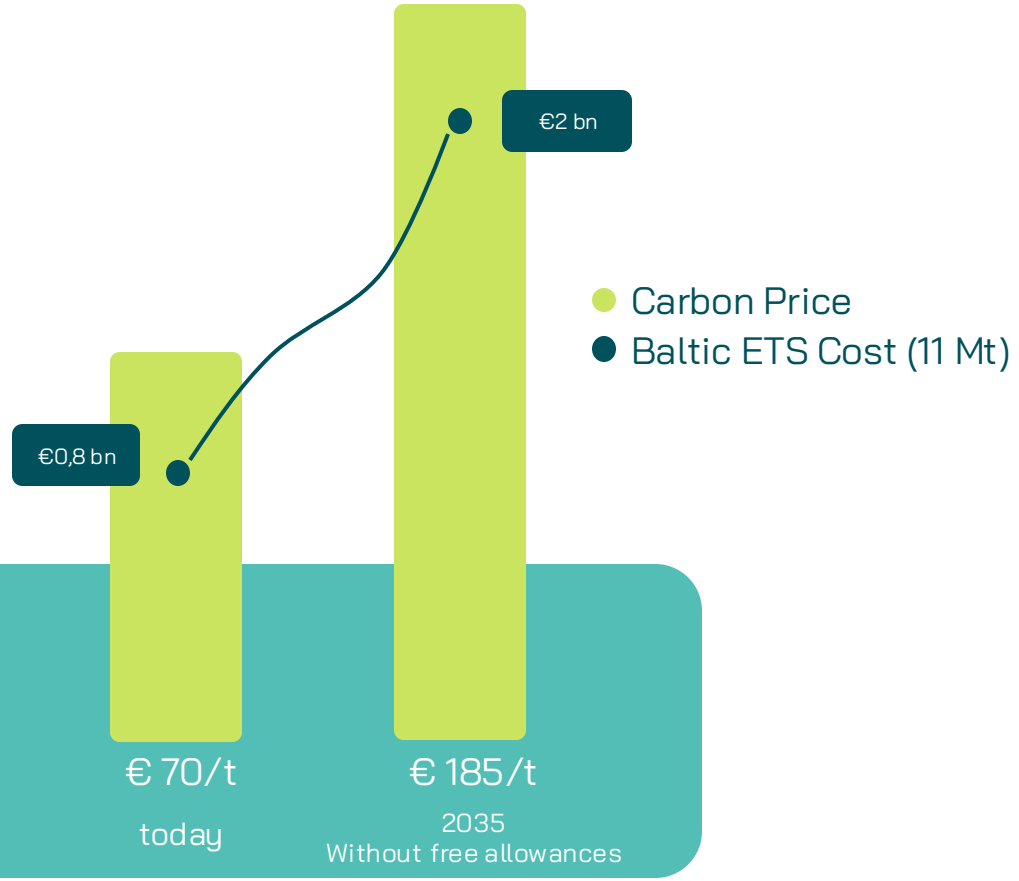
Baltic ETS Burden: facing €1 bn problem today → €2 bn tomorrow

Figure 1: Forecast EU ETS free allocation (million tons of CO2) and price € per metric ton of CO2 (nominal)



Bloomberg forecasts show carbon prices could climb toward €185/t by 2035, nearly doubling today's burden.

That would mean €2 bn annually in the Baltics.



Source: BloombergNEF – EU ETS Market Outlook 1H 2025

CCS Baltic Consortium

CCS BALTIC

Co-funded by the European Union

1

CO2 Capture facilities

SCHWENK

Akmenės CEMENTAS

2

Onshore transportation

conexus

Amber Grid

To be confirmed:

3

Multimodal LCO_2 terminal in Klaipėda

KN ENERGIES

4

Marine transportation

Larvik Shipping

MOL

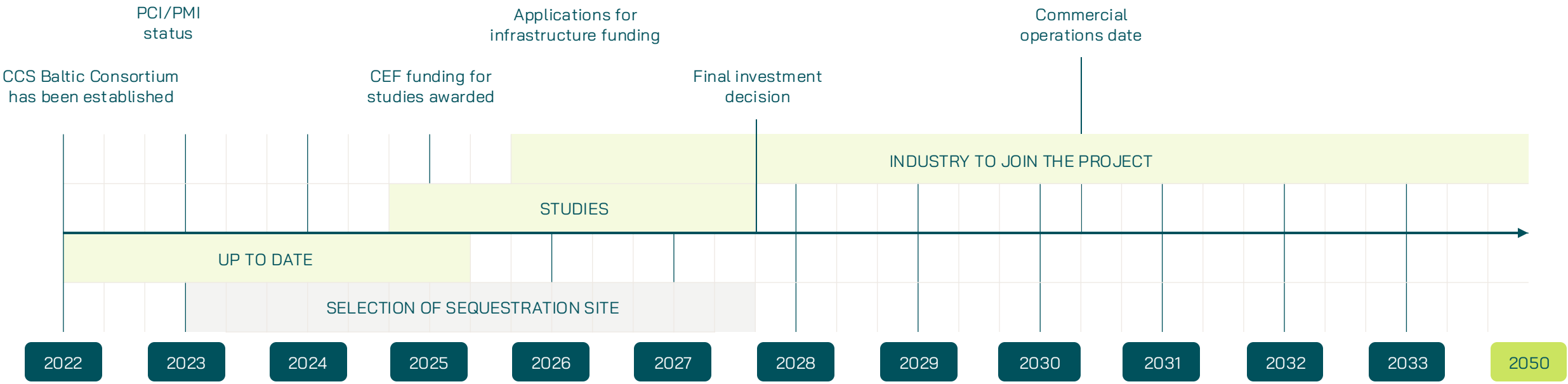
Mitsui O.S.K. Lines

5

Sequestration

CO_2 storage site planned at the North Sea

Timeline and milestones



LT/LV Market Survey – CO2 Terminal Demand

Results from the survey conducted in June 2025	Agrobusiness	Building materials	Industrial Gases	Oil Refining	Energy / Utilities
Forecasted CO2 volumes (captured) t/year					
2030	~20 000	800 000	Not available	0	1 000 000
2035	~20 000	1 600 000	Not available	349 000	1 270 000
2040	~20 000	1 600 000	Not available	349 000	2 020 000
Preferred on-shore transportation mode	Rail wagons - Semi trailers - Pipeline				
Expectations regarding the CO_2 terminal	No expectations identified	No expectations identified	Alignment on the unloading capacities (rail), storage tank farm, ship availability	Open connection possibilities, accommodating regional CO2 volumes	Focus on collaboration; Expecting a high terminal tariff
Would you consider entering long-term capacity booking agreements **Longest acceptable commitment period**	Yes	Yes	Expects to sign Carbon Capture as a Service long term agreements with emitters Duration - 15 years	No approval for CCS project at the moment	i. From 10-25 years
Timeline for potential CO2 capture	2030	2030 - 2035	2030 - 2035	2032	2031 - 2035

Connecting Europe Facility – Energy award

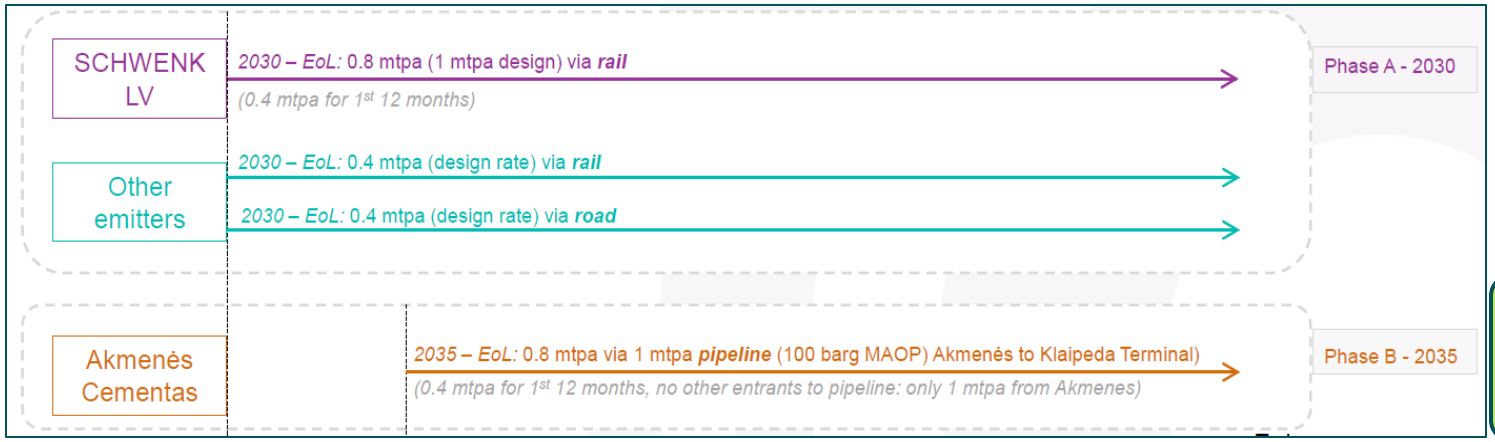
13.6. CCS Baltic Consortium – cross-border CO_2 transport via rail between Latvia and Lithuania with a multi-modal LCO2 terminal based in Klaipeda

WP1	**Project management and dissemination**
WP2	**Technical assessment**
WP3	**Environmental Impact Assessment and Permitting**
WP4	**Economic, commercial assessment (incl. CBA)**

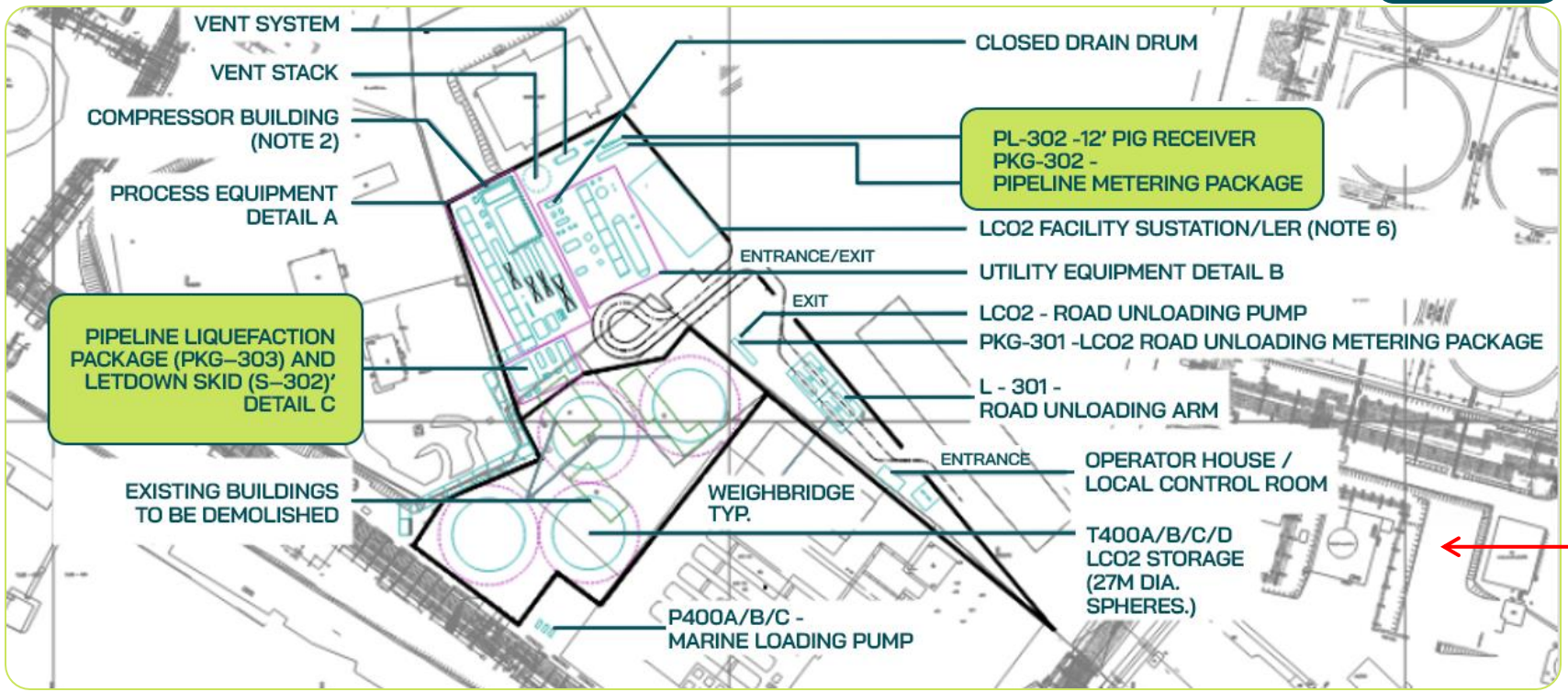
The award supports technical and commercial studies for a planned **CO_2 terminal in Klaipeda**, Lithuania.

This **award de-risks** the project's next phase and strengthens the Baltic region's role in delivering EU decarbonization objectives for hard-to-abate sectors.

preFEED – CO2 terminal



Denotes Phase B (2035) Scope



preFEED - Safety

The preliminary risk analysis carried out during the planned CO_2 terminal's Pre-FEED study found that the potential risk to the public **falls within an acceptable (tolerable) level**.

The study recommends that, in the next design phase, a **detailed consequence modelling** be performed — considering the site's terrain—along with a **Quantitative Risk Assessment (QRA)**. These steps will help ensure that all potential hazards and their possible effects on nearby communities are properly assessed.

KN Energies has included the **Quantitative Risk Assessment (QRA)** in the **scope of work for the FEED contractors**. The results will form part of the **Environmental Impact Assessment (EIA) report**, which will be shared with the public and authorities during the EIA **consultation and review process**.

Next Steps

1

Procurement and execution of CO2 terminal Front-End Engineering Design studies

2

Procurement and execution of CO2 terminal Environmental Impact Assessment

3

Preparation of CEF – Energy application for CO2 Terminal construction


CCS Baltic Consortium => Climate action, industrial survival, and a competitive green future.
Thank you!