



# Eramet Norway

## Dekarbonisering, karbonfangst og lagring

### Hva skal til for å lykkes?

Telemark Fylkeskommune – Veivalg for fremtidens grønne næringsliv  
Fredag 12. desember 2025

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*Julia Lindland*  
*Director Strategic Projects CCUS, Eramet Norway AS*

## Our activities



### MANGANESE



#### APPLICATIONS

- Steels used in construction and transport
- Batteries, fertilisers, chemicals

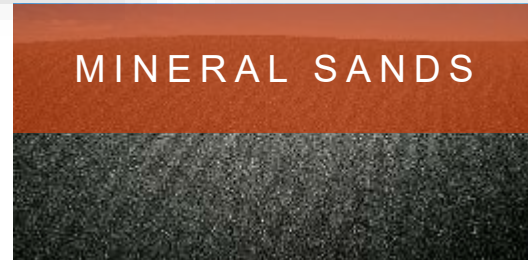
### NICKEL



#### APPLICATIONS

- Stainless steel and nickel-based alloys
- Batteries

### MINERAL SANDS



#### APPLICATIONS

- Pigments and titanium metal
- Ceramics, chemicals
- Refractories, smelting

### LITHIUM



#### APPLICATIONS

- Energy storage for electric vehicles and portable electronics





# eraLow

LOW CO<sub>2</sub> Mn ALLOYS BY ERAMET



LOW CO<sub>2</sub> TODAY, TOWARDS ZERO TOMORROW

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# Eramet Decarbonization Projects



900+  
EMPLOYEES




#1

WORLDWIDE LEADER  
ON REFINED FEMn



1,3Mt CO<sub>2</sub>  
SCOPE 1+2 IN 2019

	 Marietta Biocarbon	 Sauda BioCCS	 Porsgrunn BioCCUS	 Kvinesdal BioOxyfuel	 Dunkerque BioCCS	 CMM Biomine
	BioCarbon	BioCarbon CCS pilot plant PSA Full-scale PFS study	BioCarbon Integrated CCUS with LanzaTech	BioCarbon Oxyfuel CCS scoping study	BioCarbon Low CO <sub>2</sub> amine scoping studies	BioCarbon Biomine
		Transport & storage	Transport & storage with Yara	Transport & storage	Transport & storage as part of local network	
		Need of SHORTSHIP	Need of SHORTSHIP	Need of SHORTSHIP		
Clusters		CCS Haugalandet	Powered by Telemark	Eyde Klyngen	ZiBac/Dunkirk network	



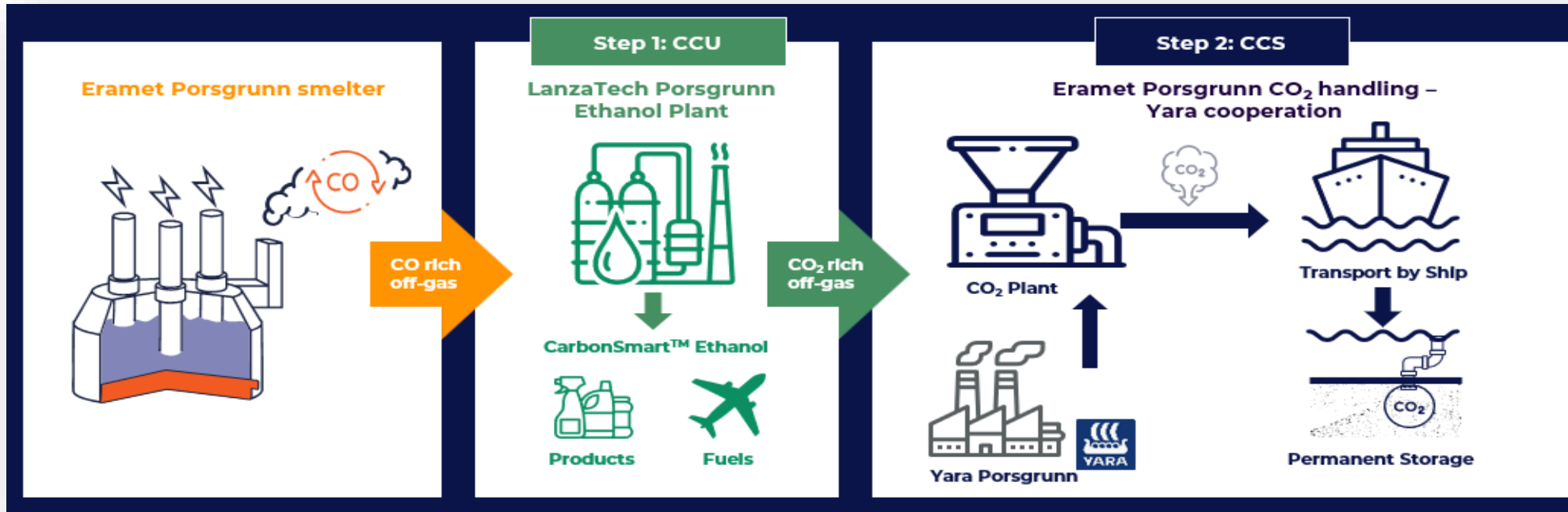


# Eramet Porsgrunn CCUS project



# Eramet Porsgrunn – First-of-a-kind integrated CCUS

Signed long-term contract with LanzaTech 31<sup>st</sup> October 2024



## Volume potential

### Eramet:

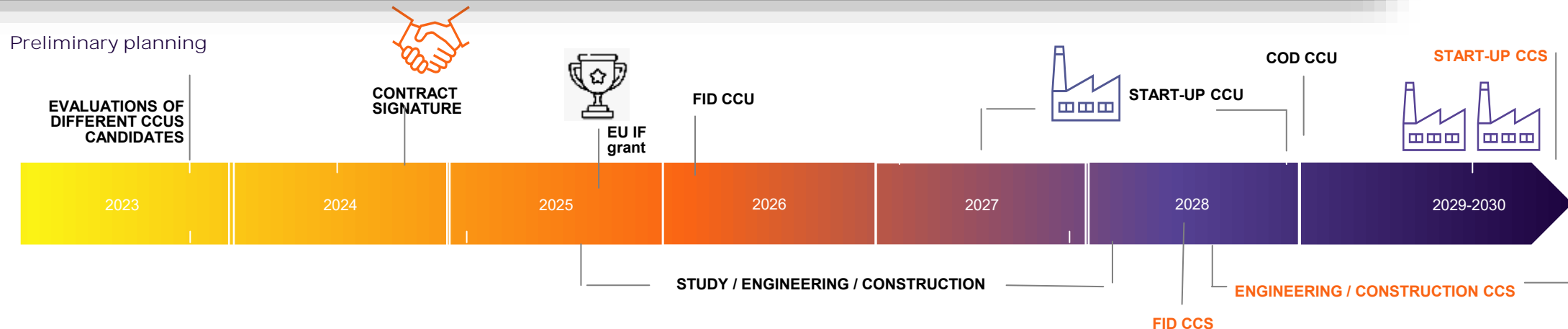
150 ktpa CO<sub>2</sub>

### Yara:

150 ktpa CO<sub>2</sub>  
+ 200 ktpa CO<sub>2</sub> (potential)

### Total:

500 ktpa CO<sub>2</sub>





# NorthCCS project Eramet Sauda





# Carbon Capture Pilot plant @ Sauda

*First-of-its-kind carbon capture pilot plant started spring 2025  
Pressure Swing Adsorption (PSA) technology*

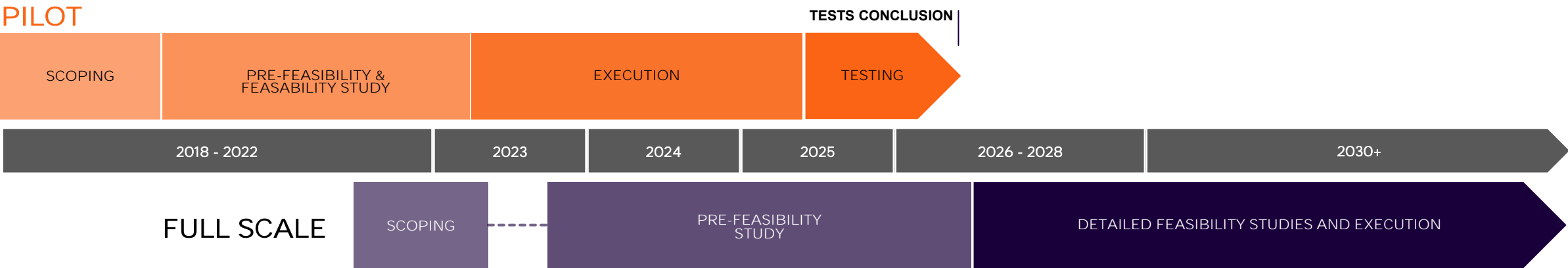
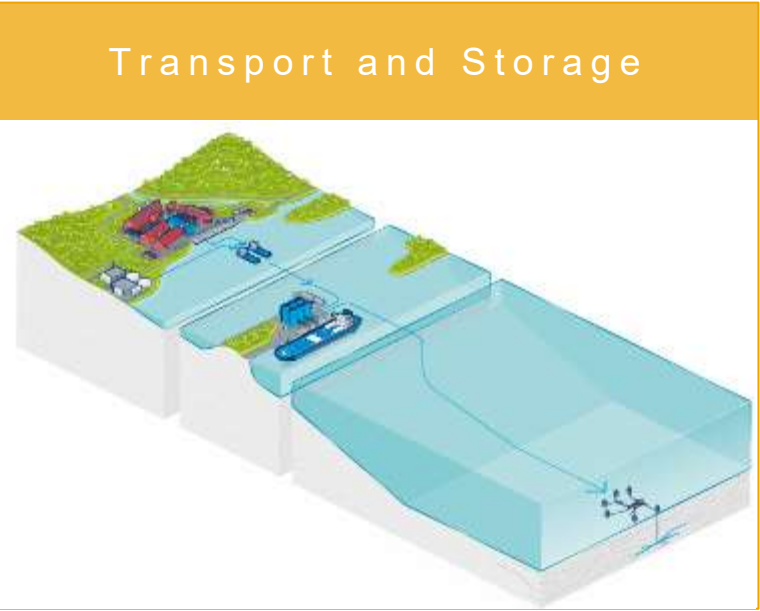




# Carbon Capture and Storage @ Sauda

70%  
of Sauda's  
emissions

Reduce the CO<sub>2</sub> footprint at Sauda by 260 kt CO<sub>2</sub> (fossil and biogenic) per year



# CCS main challenges



## Competitiveness

Maintain competitiveness in a demanding market environment, while decarbonization

## Bridging the gap

Stable, competitive and long-term frame conditions



## Level of Cost

Level of investment cost is equivalent to a rate of 15 to 20 years

## Acceptable Business case

Cost reduction  
Support mechanisms  
Increased CO<sub>2</sub> value



## CO<sub>2</sub> Transport & Storage

No solution for Norwegian emitters being small and distributed

## SHORTSHIP

Adjusted infrastructure for small emissions and reduced risk





eramet

COMMITTED TO SUSTAINABLE METALS