

# ELECTRIFYING EUROPE'S ALUMINIUM INDUSTRY



## THE CHALLENGE

Electrification of production steps still relying on fossil fuels.



Alumina Refining



Aluminium Remelting



Rolling/Extrusion

## KEY TECHNOLOGY INVESTMENTS TO MOVE FROM PILOTS TO REALITY



### Electric Furnaces

Adapt, validate and scale electric high-temperature furnaces with technology providers for aluminium production processes.



### Heat Efficiency & Recovery

Capture and reuse waste heat.



### Thermal Energy Storage (TES)

Store renewable heat for continuous flexible operation.



### Mechanical Vapour Recompression (MVR)

Electrified steam and heat upgrading for refining processes.

## WHAT ENABLES THIS SHIFT IN EUROPE?



Affordable & predictable renewable energy



Robust grids and flexibility



Adequate funding to de-risk investment

