

SUCCESS STORY ININDUSTRIAL DOMAIN x

COMPANY XY

Northvolt AB

THE PROBLEM

Devising bottom-up design strategies for improved batteries. This is an area of intense research, with high societal impact: electric mobility has the potential to significantly reduce CO2 emissions of the road transportation sector, which currently accounts for about one-fifth of total CO2 emissions in Europe.

SUCCESS STORY DETAILS

HPC provider: Vega, IZUM

Domain Expert: Roberto Di Remigio

Country: Sweden

Link:

<https://enccs.se/news/2024/05/northvolt-eurohpc/>

THE HPC PROBLEM DOMAIN

Classical and reactive molecular dynamics and quantum chemical simulations

THE SOLUTION

ENCCS helped Northvolt successfully apply for an allocation of 2 million core hours on the VEGA EuroHPC system.

THE BENEFITS

It will be possible to perform larger and more realistic simulations of the electrochemistry relevant for battery development.