**EVEREST Project Information**

**Project Developer Website**

Tata Steel <https://www.tatasteeleurope.com/>

**Project Location**

Ijmuiden, Netherlands

**Project Type**

CO2 Capture and Use

**Project Description**

The Everest project (**E**nhancing **V**alue by **E**missions **R**e-use & **E**missions **St**orage) will utilise carbon monoxide and hydrogen by-products from steel production for conversion into chemicals and capture waste CO2 for permanent storage in depleted North Sea gas fields.

**Operational Status**

Concept Phase

A pilot plant is planned to be in operation in 2020 with the aim of reaching commercial operations by 2027.

**Technology Description**

Capture: Emissions are to be captured are from the industrial sector, from Tata’s steel production blast furnaces and steel plant. CO2 will be captured from the blast furnace gas stream at the point where the concentration is at a maximum. The technology chosen is a high pressure amine wash.

Use: The syngas produced is planned to be converted to a base chemical and reused in potential products such as naphtha, methanol, acetic acid, kerosene, ammonia and methane.

The captured CO2 is stored permanently by utilising storage planned for the Athos project The Athos project is a multi-user storage facility under development in the Amsterdam area. Athos’ partners are Gasunie, EBN, Port of Amsterdam and Tata Steel.

**TRL Progression**

Starting: TRL 7

Target: TRL 9

**CO2 Reduction Potential**

Capture rate: 95% of process emissions.

Everest aims to reduce Tata Steel Ijmuiden’s emissions by 4 Mt/yr.

**Project Funding**

Is currently under investigation.