

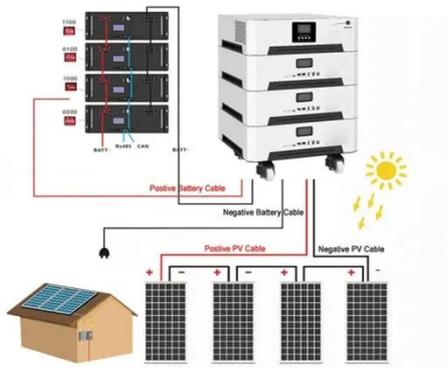
Stockholm Steel Plant Uses Folding Container Hybrid Type



Overview

Using HYBRIT® technology, SSAB aims to replace coking coal, traditionally needed for ore-based steelmaking, with fossil-free electricity and hydrogen. The result will be the world's first fossil-free steelmaking technology, with virtually no carbon footprint. An innovative Swedish smelting process that's nearly a decade in the making promises to take the air pollution out of steel production. And the concept has already been proved during a successful trial period, according to a story by Interesting Engineering. "A couple of years ago, it was more or. Fossil-free steel - a joint opportunity! SSAB, LKAB and Vattenfall are making a unique joint effort to change the Swedish iron and steel industry fundamentally. Steel, which is one of the.

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In Sweden, Europe's first decarbonized steel mill rises, stirring hope

The project has drawn international attention, as European steel groups such as Thyssenkrupp in Germany and ArcelorMittal in France struggle to decarbonize their blast furnaces.

Hybrit project (fossil-free steel making)

In 2016, SSAB, LKAB and Vattenfall joined forces to create HYBRIT (Hydrogen Breakthrough Ironmaking Technology) - the initiative aiming to develop the world's first fossil-free ore based steel ...



HYBRIT® - A new revolutionary steelmaking technology

For thousands of years, steel has been made using coal to remove oxygen from iron ore, emitting vast amounts of CO₂ in the process. But, SSAB has revolutionized the industry with HYBRIT® ...

HYBRIT steel process prepares for industrial expansion in Sweden

HYBRIT's process converts iron ore pellets into iron (sponge iron) using fossil-free hydrogen, with water as the only by-product. This differs from conventional direct reduction ...



Building the world's first large scale green steel plant

Stegra is headquartered in Stockholm, Sweden, with its first green steel plant under development in Boden, Northern Sweden. This project is a trailblazer in decarbonization of hard-to-abate industrial ...

Fossil-free steel - a

Under the name HYBRIT, we are working together to develop the first fossil-free steel. The HYBRIT technology has the potential to reduce Sweden's total carbon dioxide emissions by at ...



Researchers achieve breakthrough in steel production ...

INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,
FLEXIBLE DEPLOYMENT



An innovative Swedish smelting process called HYBRIT promises to take the smog out of steel production.

**Sweden's green steel gamble:
Hype, hope and hidden
emissions**

The company claims its steel will be produced entirely with green energy, a vision that could have significant implications for Sweden and the global steel industry. The announcement ...



**Fossil-free steel production
ready for industrialisation**

The pilot storage facility was commissioned in the summer of 2022 and is used to validate the process and technology for a large-scale storage of hydrogen in an underground steel-enclosed rock cavern.



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