



## STRATEGIC FEEDSTOCK TO SUPPORT THE TRANSITION TO A LOW CARBON EMISSIONS STEEL INDUSTRY

Steel industry is undergoing a structural transformation. HBI is crucial to support the two main decarbonization paths to be adopted by steel companies.

**HBI** (Hot Briquetted Iron) is an added value Iron Based Metallic produced from iron ore in shaft furnaces using **natural gas** and increasingly **Green H<sub>2</sub>** as a reagent gas. HBI is briquetted at high temperature to form dense briquettes, which can be **transported and handled easily and safely**.

In integrated steel mills, **HBI** can reduce up to **25% of CO<sub>2</sub> emissions** and **increase productivity** in blast furnaces, enabling mills to achieve short term decarbonization targets without replacing existing assets.

Low-emissions scrap-based **Electric Arc Furnace (EAF) steel** production is set to **double until 2050**. HBI, which is also used in EAFs, is essential for producing **higher specification steels** and **optimizing scrap** supply and cost.

PORTO DO AÇU IS A KEY PATHWAY TO  
**REDUCE CARBON FOOTPRINT**  
OF THE STEEL INDUSTRY

**44km<sup>2</sup>**  
Area available

**4<sup>th</sup>**  
largest private iron  
ore terminal in Brazil

**11**  
Private  
Terminals



# PORTO DO AÇU HBI HUB

STARTING POINT FOR A GREEN STEEL INDUSTRY

Up to **4**  
Modular HBI  
plants

Up to **10Mtpy**  
Total capacity

**2028**  
1<sup>st</sup> plant expected  
start up

*Natural gas will be replaced by green hydrogen in the future, when available and feasible, for producing green HBI and enhancing the decarbonizing effect for steel production.*

## COMPETITIVE ADVANTAGES

### AÇU HAS MAJOR PROJECT RESOURCES AVAILABLE

- **High-quality iron ore**
- **Natural gas supply** and **Green H<sub>2</sub>** production in the future
- **Abundant water** from different sources without impact to local community.
- Fully connected to integrated **National Power Grid** and to **renewable power** projects under development at the port.
- **Strategic geographical location** in the Southeast Region of Brazil's higher GDP and larger steel production region.
- **Efficient port infrastructure** for handling and shipping **HBI** to **domestic and overseas markets**

### ENGAGEMENT WITH KEY STAKEHOLDERS STATUS

- MOU with **Iron Ore Supplier**
- MOU with **Gas Pipeline Operator**
- LOI with **Gas Supplier**
- LOI with **Steel mills as HBI Off-takers**

### INVESTMENT

**Approximately USD 1 billion for the first 2.5Mtpy HBI plant**

QR Code:



bilby