Sheet N° 63- 1/2- Production of H2-DRI

Description



Reduced iron ore production unit (DRI), with a production capacity of **1-2 million tonnes**, capitalising on green hydrogen as fuel and reducing agent to serve local and international needs

Main customers: Steel industry, automotive industry

Branch and sub-branch: Energy-intensive upstream industry / Metals

Complexity -3,33 2,56 of the product¹ -1,16

HS Code: 720310

Key facts

- ➤ To date, DRI units based mainly on natural gas and coal with the emergence of 100% green hydrogen production as a substitute
- ➤ Interesting potential for the Kingdom by capitalising on green hydrogen as a fuel and reducing agent
- ➤ Global DRI production dominated ~60% by India and Iran
- ➤ Location of the unit in the Region to allow for significant cost competitiveness due to the high green hydrogen potential

Prerequisites (3)

- > Securing the supply of raw materials, premium purchase contracts and the need for proximity to a green hydrogen production project
- Need to create a specific training pathway

Market indicators

Target market(s):

Target market(s), (from highest to lowest priority) to be addressed:

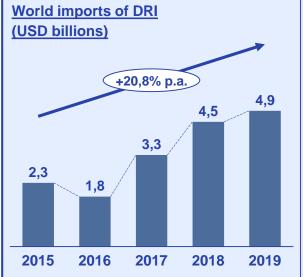


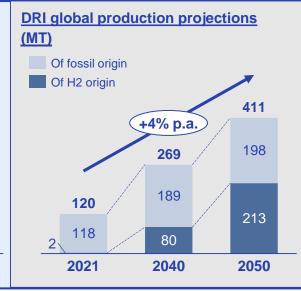
Exports: Mainly to Europe (Italy, Germany and Spain), USA and Saudi Arabia



National: as a substitute for imports from : United Arab Emirates, Russia and Libya

Market size and development (2)





¹⁾ Product Complexity Index: Diversity and sophistication of the know-how required to produce a product. The PCI is calculated according to the number of countries that produce the product and the economic complexity of these countries. The most complex products, those that only a few countries can produce, have the highest PCI (e.g. electronics, chemicals) vs. the least complex products (e.g. raw materials, agricultural products) - Source: TradeMap. Harvard economic complexity

(2) Sources: ITC, IIMA, IEA



Sheet N° 63- 2/2- Production of H2-DRI

Financial indicators (indicative):	
Potential investment	4 billion MAD
Turnover	4 - 5.6 billion MAD
Estimated selling price	5 - 7 MAD / kg
ROI	~4 - 6 years
EBITDA (as % of sales)	13 - 17 %
Jobs	600



Raw materials and suppliers **Main inputs** · Iron ore DR-pellets Green hydrogen **Main suppliers** Mauritania: Iron ore Morocco: green hydrogen

