Sheet N° 67- 1/2- Electrolyser assembly

Description



Assembly and installation of electrolysers for the production of green hydrogen, with an assembly unit with a production capacity of **1GW**

<u>Main customers:</u> energy companies, industry, urban mobility <u>Sector and sub-sector:</u> Green hydrogen and its derivatives /

Complexity -3,33 of the product¹

2,56

HS Code : 85433

Key facts

Willingness to create a green hydrogen ecosystem with potential for local integration in electrolyser assembly to support this ecosystem

1,38

Strong export potential with an electrolyser manufacturing/assembly market (essential technology for the production of green hydrogen) estimated at ~US\$400 million in 2021

Prerequisites (2)

Strategic location close to green H2 production platforms and inputs

Market indicators

Target market(s) :

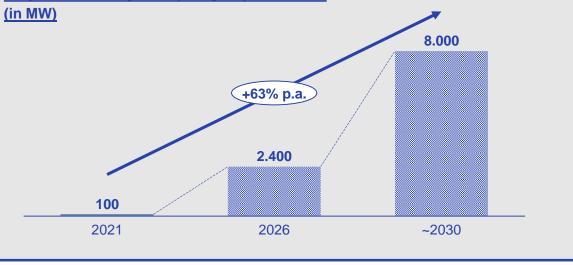
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Target market(s), (from highest to lowest priority) to be addressed :

- Local and national: To support the ambition of developing the green H2 ecosystem
- <u>Export</u>: Mainly to local markets with high H2 green potential such as Africa (e.g. Southern Africa and Mauritania)

Market size and development ⁽³⁾

Projected electrolyser capacity requirements*.



(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: Office des Changes, Press articles, ITC

* Excluding OCP's 2GW integrated project



Sheet N°67- 2/2- Electrolyser assembly

Financial indicators (indicative) :				Investment elements				
	Potential investment	500 - 700 Mn MAD	Р	Potential land				
Turnover		8 - 12 billion MAD		Priority provinces				
Estimated selling price		8 - 12 Mn MAD / MW		Tarfaya				
	ROI	1 year		Type of land			Area	
EBITDA (as % of sales)		20 - 30 %		Private domain of the State National Road EL marsa -La				
	Jobs	300 - 350		Average land price Unified Regional Investment Commission (CRUI)			Mode of mobilisation Unified Regional Investment Commission (CRUI)	_ t
Human resources Raw		Raw materials and suppliers	N	lain investment benefits			· · · · · · · · · · · · · · · · · · ·	
 HR skills needed Electrical, mechanical and materials engineering, quality control specialists, logistics, electrical and mechanical technicians 		 Main inputs Power supplies, compressors, mounting plates, electrolyte cells, polymers and composites, pipes, valves, pumps 		Grant Support for training Other			2 cluster, "TATWIR green programme, UM6P Green H2 LCOM "Green INVEST"	2A
• OF Ins • EN • EN • ES	Training offersPPT (Laâyoune): Specialisedtitute of Applied Technology (ISTA)SA (Agadir) : MechanicalgineeringSA (Agadir) : Industrial EngineeringT (Laâyoune branch): renewableergies and water desalination	 Main suppliers Morocco: Metal oxides, pipes, valves, pumps Germany, China: Nickel alloys and rare materials, electrolyte cells, polymers and composites 	C	Contacts Full name : Nassira Aourir			elephone : 0662406941 -mail : nassira.aou@gmail.com	n

Source: Press articles and expert interviews