## 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 product<sup>1</sup>

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) :

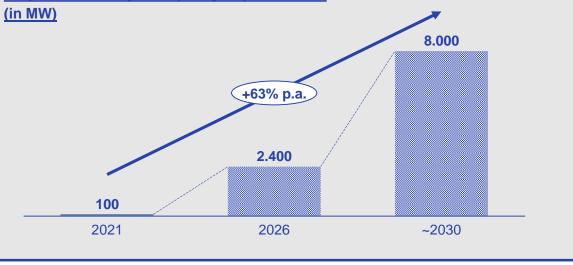
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Target market(s), (from highest to lowest priority) to be addressed :

- 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 <sup>(3)</sup>

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			· · · · · · · · · · · · · · · · · · ·	
<ul> <li>HR skills needed</li> <li>Electrical, mechanical and materials engineering, quality control specialists, logistics, electrical and mechanical technicians</li> </ul>		<ul> <li>Main inputs</li> <li>Power supplies, compressors, mounting plates, electrolyte cells, polymers and composites, pipes, valves, pumps</li> </ul>		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	<ul> <li>Main suppliers</li> <li>Morocco: Metal oxides, pipes, valves, pumps</li> <li>Germany, China: Nickel alloys and rare materials, electrolyte cells, polymers and composites</li> </ul>	C	Contacts Full name : Nassira Aourir			elephone : 0662406941 -mail : nassira.aou@gmail.com	n

Source: Press articles and expert interviews