Sheet N° 70- 1/2- Flat steel mast assembly for wind turbines

Description



Production of flat steel masts for the assembly of wind turbines with a production capacity of around **300 masts per year**<u>Main customers:</u> Wind farms, energy companies

<u>Sector and sub-sector:</u> Renewable energy industries

Complexity of the product¹

NA

Key facts

- Strategic sector for the Region to develop and deepen the local integration of the industry around renewable energies with an estimated additional capacity of ~ 13.6 GW of wind power installations in the medium term
- ➤ International market characterised by strong competition and driven mainly by lower mast manufacturing costs (e.g. Portugal, Spain and Germany)
- Project to support national and local ambitions for an energy mix and green hydrogen

Prerequisites (2)

Proximity to wind farms

Market indicators

Target market(s):

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



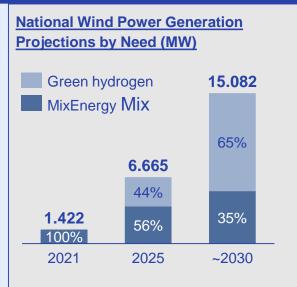
Local: To serve the region's energy mix and green hydrogen ambitions



<u>National</u>: In order to meet the Kingdom's energy mix and green hydrogen objectives for 2025 and 2030

Market size and development (3)





(2) Sources: Office des Changes: Press articles, IEA, MASEN, MEN, Objectives Morocco NDC



Sheet N° 70- 2/2- Assembly of flat steel masts for wind turbines



Human resources

HR skills needed

 Mechanical, metallurgical and structural engineering, quality control, logistics and transport, project management, welding

Training offers

- OFPPT (Laâyoune, Boujdour and Es-Smara branches) : Electrical engineering
- EST (Laâyoune branch): Professional degree in renewable energies and water desalination

Raw materials and suppliers

Main inputs

· Galvanised flat steel

Main suppliers

 Morocco: Galvanised flat steel rolls (eg. MaghrebSteel, Riva Industries)



^{*} Figures based on an average height of 100 m / mast and 1200 EUR / m - Source: Press articles and expert interviews

^{*} Average weight of a wind turbine mast of around 550 T of galvanised steel - Source: Commission Nationale du Débat Public (CNDP France)