

Sheet N° 68- 1/2- Wind turbine blade assembly

Description



Wind turbine blade assembly unit with a production capacity of **900 blades**, including rotor, gearbox (as well as the entire power generation system) including blade quality testing devices and aerodynamic conditioning. Installation and maintenance service included.

Main customers : Wind farms, industry

Sector and sub-sector: Renewable energy industries

Complexity of the product^{1 NA}

HS Code: 841290

Key facts

- Strategic sector for the Region to develop and deepen the local integration of the industry around renewable energy
- Project to support national and local ambitions for an energy mix and green hydrogen
- Availability of port infrastructure and land in the province of Tarfaya suitable for wind turbine blade assembly activities

Prerequisites ⁽²⁾

Market indicators

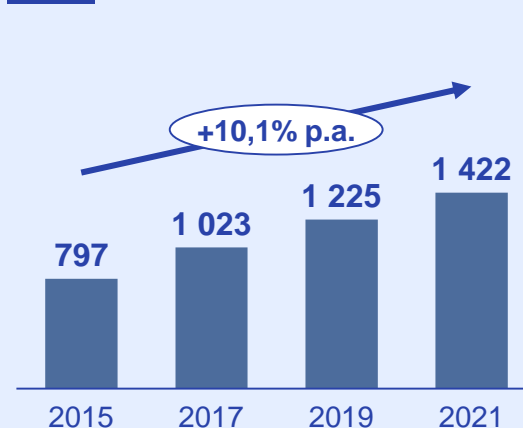
Target market(s) :

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

- +** Local and national: To serve the region's energy mix and green hydrogen ambitions

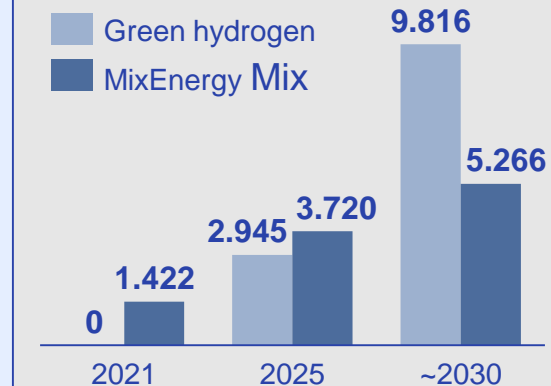
Market size and development ⁽³⁾

National installed wind power capacity (MW)



Projections of national wind energy requirements

By need, in MW



(1) Not applicable - several technologies exist and are in use today

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



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Financial indicators (indicative) :

Potential investment	500 Mn MAD
Turnover	100 - 115 Mn MAD
Estimated selling price	115 - 125 kMAD/pale
ROI	12 - 17 years
EBITDA (as % of sales)	30 - 40 %
Jobs	200 - 400

Human resources

HR skills needed

- Aerodynamic engineering, technicians, quality control and aerodynamic endurance testing, industry 4.0 and automation, logistics

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

- Composite resins, glass or carbon fibre, polyester and epoxy resins, gearboxes

Main suppliers

- Spain, Germany, Belgium, China: Composite resin, polyester, gearboxes and other equipment

Investment elements

Potential land

Target provinces

✓ Tarfaya

Type of land

Private domain of the State (e.g. National Road EL marsa -Lamssid)

Area

4 ha

Average land price

Unified Regional Investment Commission (CRUI)

Mode of mobilisation

Unified Regional Investment Commission (CRUI)

Main investment benefits

Grant

Investment Charter

Support for training

Solar Cluster, AMEE (Moroccan Agency for Energy Efficiency) TAEHIL" programme, "IDMAJ" programme

Other

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