

Sheet N° 49- 1/2- Wind farm

Description



Site with several wind turbines producing green electricity, with an average production capacity of about **100 MW** per project

Main customers : ONEE network, industry

Branch and sub-branch: Renewable energies / Energy production

Complexity of the product¹



HS Code² : 2716

Key facts

- Very important potential for the national market - Willingness to reach ~2300 MW additional installed wind power capacity by 2025
- Willingness to reach ~1550 MW additional installed wind power capacity in the period 2025-2030 at national level
- Strategic sector for the Region in the framework of the development plan for the Southern Regions

Prerequisites (2)

Market indicators

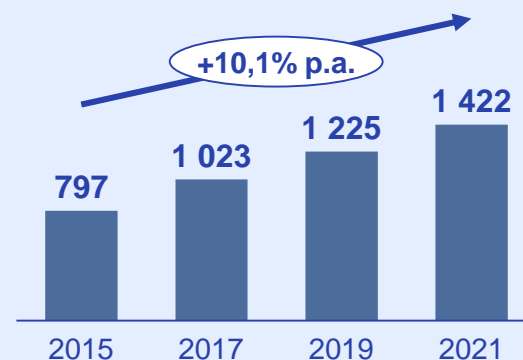
Target market(s) :

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

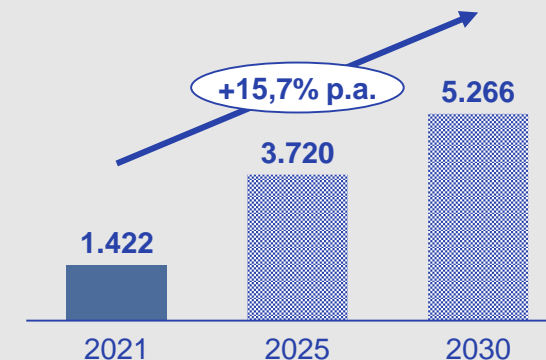
- +** National: In order to meet the Kingdom's energy mix objectives for 2025 and 2030 and the green hydrogen ambitions
- Export: Export of green electricity to Europe

Market size and development (3)

National installed wind power capacity (MW)



National wind power generation projections (MW)



(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 - index based on electrical energy as final product

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



Sheet N° 49- 2/2- Wind farm

Financial indicators (indicative) :

Potential investment⁽¹⁾	1.1 - 1.2 billion MAD
Turnover	480 - 660 Mn MAD
Estimated selling price	55 - 75 cents/kWh
ROI	3 - 5 years
EBITDA (as % of sales)	50 - 60 %
Jobs	10 - 20

Human resources

HR skills needed

- Data science, renewable energy, digital steering

Training offers

- Faculty of Science (Agadir): Data Science
- EST (Laâyoune branch) : Professional degree in renewable energies and water desalination

Raw materials and suppliers

Main inputs

- cables, wind turbines, electrical devices

Main suppliers

- China, Germany: wind turbines
- Morocco: electrical cables and devices

Investment elements

Potential land

Priority provinces

- ✓ Laayoune ✓ Boujdour ✓ Tarfaya

Type of land

Private domain of the State (e.g. Akhfenir-Lamssid-jraifia)

Area⁽²⁾

300-2000 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, "TATWIR green growth", MorSEEF

Other

TAMWILCOM "Green INVEST" programme

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