



Observatoire Europe-Afrique 2030

Data Sheet n°9

**Consortium Green Energy Park (IRESEN, UM6P), EDEEP,
Halmes (Maroc)**

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1. Consortium activities

The consortium made up of Green Energy Park (IRESEN, UM6P) and the companies EDEEP and Halmes Maroc has developed a new generation of intelligent charging stations for electric vehicles, for professional and domestic use. Due for launch in 2021, this "ISmart" charging station is "100% Moroccan" (design, development and manufacture).

- Halmes Maroc, founded in 2009, manufactures components for the aeronautics and aerospace industries. This precision engineering company is located at the heart of Casablanca's aeronautical ecosystem. It produces both prototypes and series.

- IRESEN (Institut de Recherche en Énergie Solaire et Énergies Nouvelles) was created in 2011. It supports the national energy strategy through market-oriented applied research and innovation in green technologies.

Development is supported by the Ministry of Energy, Mines and the Environment and the Ministry of Industry.

2. Product range

The range offered includes 5 chargers, stand-mounted, wall-mounted and integrated into lampposts, with power ratings of 7.5kW, 22kW and 50kW, and a 50kW capacity enabling a small car to be recharged in 30min.

The ISmart bollard is connected to a monitoring platform that facilitates control and maintenance, integrates CO2 sensors and a static and dynamic spotlight to offer several services to users.

Technical specifications : <https://www.i-smart.ma/#apropos>

Retail price from 9,500 DH, around 900 euros.



Industrial production is scheduled to start in the second half of 2021. The production line, located in Benguerir, generated some twenty direct jobs in the first year, and over a hundred indirect jobs through the ecosystem created with various national manufacturers in the electronics, mechanical engineering and distribution sectors.

Production capacity is 300 terminals/month. The aim is to produce 5000 terminals/year.

As part of this project, Morocco is developing partnerships with manufacturers specializing in the production of plastic injection molds, automatic processing and bending of sheet metal, laser cutting and the manufacture of electronic cards.

3. Sources of information

<https://www.i-smart.ma/>

<https://lematin.ma/express/2022/voitures-electriques-benguerir-va-accueillir-nouvelle-usine-production-bornes-recharges/381550.html>

4. Contacts

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