



TOUR OF THE ERG WIND FARM IN PARTINICO-MONREALE

Wednesday, 25th October 2023



The **Partinico-Monreale wind farm** is the first in which ERG has completed one of the projects of its Repowering programme. On 29 September, ERG also announced the completion of the construction and energisation of the Camporeale wind farm, near to the one in Partinico-Monreale.



Repowering is an operation carried out to rejuvenate existing plants. It involves replacing obsolete turbines with new, latest generation, more powerful and better-performing ones. This activity allows us to **increase energy generation** by doubling capacity and tripling production but **halving the number of wind turbines without taking up additional land**. This is why Repowering represents an essential tool for achieving decarbonisation objectives.

Partinico-Monreale

Wind Park:

technical characteristics

The plant comprises **10 Vestas V 136 turbines**, each with **4.2 MW** of power and an overall height of **180 metres**.

The total installed capacity is **42 MW**.

The estimated production is **94 GWh** of clean energy/year, equal to coverage of the potential needs of **18,000 families/year**.

The emissions avoided equal **50 tonnes of CO₂/year**.

The **Partinico-Monreale wind farm** has been in operation since 2005. The project was implemented on two particularly windy ridges in a border area between the provinces of Palermo and Trapani, within the municipalities of Partinico and Monreale, 18 and 30 kilometres away, respectively. The closest town is the hamlet of Grisì, in the Municipality of Monreale.



With its six turbines, the north-eastern ridge of the wind farm overlooks the plain featuring **Lake Poma**, created by the Jato River irrigation dam. The south-western ridge, on which four turbines stand, overlooks the **Alcamo** area and the **province of Trapani**.

The wind farm is connected by a cable duct measuring around 10 kilometres to the ERG Electrical Substation in Partinico, through which the energy produced is transmitted to the distribution network



The Repowering of the Partinico-Monreale wind farm

BEFORE



2005-2023

19 WTG Vestas V 52 of 850 KW

(Total capacity 16 MW – Production 27 GWh/year)

REPOWERING

AFTER



from 2023

10 WTG Vestas V 136 of 4.2 MW

(Total capacity 42 MW – Production 94 GWh/year)

The results of the repowering project of the ERG wind farm in Partinico-Monreale

- Three and a half times more clean energy output than the original project
- Two and a half times more installed capacity than the original project
Number of turbines reduced by 49%
- with more advanced and efficient production technologies
- Surface area occupied unchanged despite growth in production and installed capacity

ERG with EssilorLuxottica for the 'Eyes on the Planet' project

The clean energy produced by the Partinico-Monreale wind farm will support EssilorLuxottica, a global leader in the design, production and distribution of ophthalmic lenses, eyeglasses and sunglasses, in its journey towards the goal of carbon neutrality for its corporate activities (Scope 1 and 2 emissions) as set out in its 'Eyes on the Planet' sustainability programme.

EssilorLuxottica and ERG have signed a 12-year Power Purchase Agreement (PPA) to supply approximately 900 GWh of clean energy in 2023-2034. Its partnership with ERG confirms EssilorLuxottica's long-term commitment to sustainability issues and achieving the goal of carbon neutrality in its activities.



The tour on 25 October 2023

(13,083 37,957)

We will tour the northern part of the plant, **starting from the PAR02 clearing**, where the wind farm's inauguration ceremony will take place. The tour of the plant will pass by **three** of the six turbines on the North-Eastern ridge and, on leaving the wind farm, will visit the other planned activities.

1 Park entrance

**2 PAR02 pitch
Parking area**

