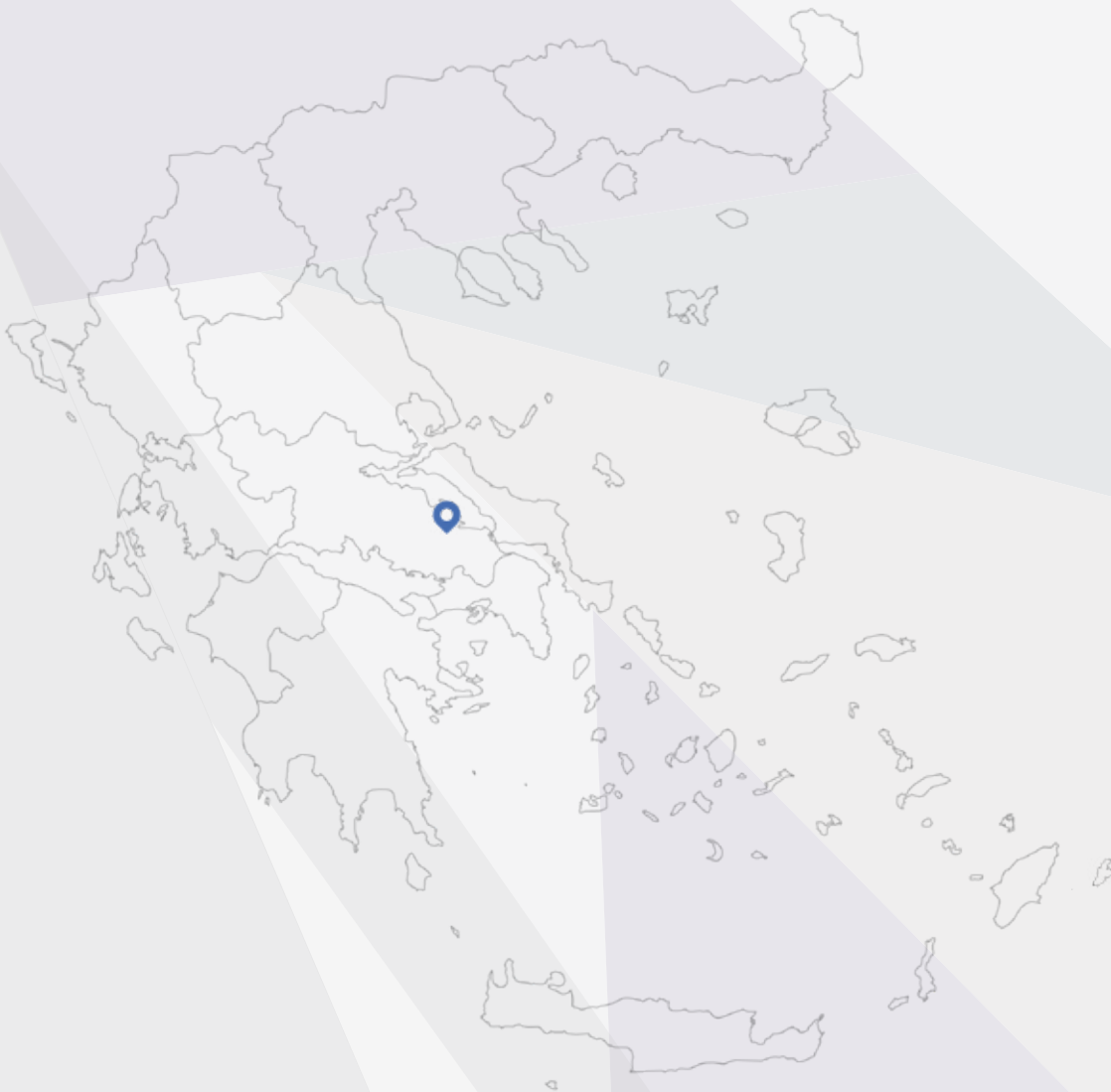


WELCOME

to Martino Wind Plant

38°32'23.7"N 23°12'48.0"E





Power Plant Description:

The Martino wind power plant, commissioned in 2010, joined our company's fleet through an Endesa acquisition and has been a valuable asset ever since. Situated at the heart of mainland Greece, in the prefecture of Fthiotida, at the Municipality of Lokron, "Martino" is a small-sized wind power plant comprising **4 wind turbine generators**, each with a capacity of 1.5 MW, resulting in a **total installed capacity of 6 MW**.

Considering the location's particularities (Class III B site) and the corresponding international standards, **Acciona AW82** (AW1500 platform) wind turbine generators were selected to rig the power plant rendering it the only wind power plant in Greece equipped with this manufacturer model. Despite the uniqueness it grants, this fact complicates the operation and maintenance procedures due to the often lack of original equipment manufacturer and of experienced independent service providers in Greece.

Plant Highlights:

The winds crossing the site have an **average speed of 7.16 m/s**, resulting in the wind power plant essentially producing an **average of 16 GWh per year**. Holding a Feed-in-tariff power purchase agreement with the RES Operator, with this level of annual production Martino attains **average annual revenues of approximately €1.38 million**.

Since 2019, the Greek team implements a **full in-house maintenance model** for "Martino", a decision mainly driven by the lack of market experience and available solutions. This in-house approach applies to all the necessary operation and maintenance processes, namely in-house replacement of main components, blade repairs, predictive maintenance, in-house remote monitoring and control, and quality assurance site inspections.

The plant's accessibility and proximity from the headquarters renders it an ideal testing location for state-of-the-art and innovative practices. Hence, in the recent years, the operations and maintenance team has implemented numerous such practices including blade inspections using drones, a **Power Boost upgrade** to enhance the plant's power output, an **online vibration analysis system** (CMS) to detect faults proactively and efficiently, and **advanced medium voltage** (20kV) protection surge arresters.



Plant Sustainability & Innovation Projects:

As part of the company's mission to embrace sustainability in every project phase, a variety of sustainability projects have been performed in “Martino”, with the scope of preserving the surrounding environment and assuring the quality of procedures.

An important highlight is the implementation of **professional training of contractors** to ensure their activities align with the company's high sustainability standards. Additionally, with the aim to improve performance and minimize the risk of failures and potential oil leakage and thereby protect both the equipment and the environment, the **high-pressure filter pump** in the Hydraulic Power Unit have been retrofitted.

As also mentioned, state-of-the-art technologies and practices for maintenance purposes are being often employed to identify new smart and efficient ways of working. A few examples are the **drone-based plant inspections**, the **digital checklists** for pending and performed actions, and the use of **smart glasses** for remote technical support and site visits.

Furthermore, with the aspiration of investing in the future and contributing to the next generation's familiarization with renewable energy, Martino is often open for **student site visits**, which are usually combined with inspiring educational programs.

Martino Wind Plant
Fthiotida



Scan to visit the Plant Page and learn more

