

Energy system analysis:
MENORCA'S FIRST ENERGY TRANSITION

This document, prepared by DEM-energy, is the first holistic analysis of Menorca's energy situation. It provides the knowledge base necessary to draw up a roadmap for the transition to a new energy model - one more fit for a Biosphere Reserve like Menorca. All the data is represented graphically, giving a full panorama of the island's current energy situation, along with its regional and global energy context. It is important to note that this report is aimed at the general public, so while it employs a thoroughly scientific approach, its findings are expressed in wholly accessible terms.

The data and discussion presented here are intended to illustrate the most relevant aspects of the island's current energy situation, within the regional and global context. The document is intended for free online distribution and it is organised into 11 chapters, each of which can be consulted independently. There are Catalan, Spanish and English versions, so that it can reach the broadest possible audience.

Titled **Menorca's first energy transition**, the document offers an analysis of the island's current energy system. This will serve as the basis for outlining a more desirable vision for Menorca's future, which we call *Menorca's second energy transition*. The analysis describes the outcome of the transition from a society based on the exploitation of renewable energy flows within the territory of the island itself (sun, wind, biomass and animal power) to one based on the mass use of non-renewable fossil fuels imported from overseas. This first transition, which gives our analysis its title, took place between the end of the 19th century and 1960, when the Maó thermal power station opened. Menorca's current energy system is the result of this first energy transition.

The analysis prepared by DEM-energy has already been distributed to some of those involved in working on a roadmap for Menorca's second energy transition. The knowledge base provided by this document is proving very useful for drawing up proposals and seeking support from authorities beyond the island itself.

This study was produced using data from energy sector companies, government bodies and other official sources, as well as scientific research and documents. The information provided by the Menorca Socio-environmental Observatory (OBSAM) was particularly important, as without it the study could not have been carried out with such a broad scope. Some of the information presented in the document is published here for the first time, such as the data on energy consumption in Menorca attributable to maritime and air transport.

The *Directrices Estratégicas de Menorca* (Strategic Guidelines for Menorca) are a new initiative by the *Institut Menorquí d'Estudis* (Menorcan Institute of Studies), aimed at fostering the culture necessary for the island to transition towards a sustainable mode of living. This process fits into the goals of the UNESCO MaB (Man and the Biosphere) programme, under which Menorca has been categorised as a Biosphere Reserve. This involves a commitment to become an example of sustainability reproducible on a global scale.

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