WIND TURBINE LIGHTHOUSE

Taking inspiration from the forces of nature, this project creates a unique type of lighthouse, which is self-sustainable, practical for navigators, and pleasant for both the inhabitants and visitors.

In this way, the lighthouse will not only guide sailors, but it will also be an attraction for those staying on land, as it will act as a giant luminous sculpture. Its sculptural aesthetic will give the island a new focus of interest, as it will emit a very agreeable light during the night and it will show its aesthetic beauty during the day.

The wind, mild or strong, will endow it with life, providing it with autonomous energy. The use of kinetic wind energy is economic, and since it is a renewable energy, it will protect the ecological value of Giglio Island and the surrounding sea.

This is a leading architectural and engineering project, which will integrate windmill functions into the lighthouse. The strength of the wind will work proportionally on the windmill blades, making them rotate so that the lighthouse can produce its own source of light.

The light emitted by the lighthouse will be white and blue. The bulbs emitting the light will be placed along the windmill blades and when rotating, they will create a large sphere of blue light that will be visible from the sea and the mainland.

The lighthouse will be made up of three modules, each with different functions: a luminous rotating head; a body that will produce electricity for self-consumption; and a base that will be placed on land and will host a space for visitors and another space for the person in charge of the lighthouse. Both spaces will have an underground opening in front of the sea so visitors can enjoy the views and the natural light during the day. There will also be a space for the generator and the machinery.