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## OFFSHORE WIND ENERGY

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The aim of the Strategic Environmental Study of the Spanish coast for the installation of offshore wind farms is to determine the areas of maritime and terrestrial public domain that possess favourable environmental conditions for the installation of offshore wind farms.

The scope of study covers a coastal strip of some 24 nautical miles measured from the straight base lines and also includes the internal waters that these define. This strip is sufficiently wide to include all the marine energy projects currently envisaged with the current state of commercial offshore wind technology.

- Apt zones: the most suitable zones for setting up offshore wind farms due to their, in principle, small impact on the environment compared to the advantages that they present.

- Exclusion zones: the areas from which the process must be excluded due to the identification of potentially significant impacts on the environment or conflict with other uses of the marine environment.
- Apt zones with environmental constraints: where the effects or conflicts that have been detected must be analysed in detail during the environmental impact procedures carried out for each of the specific projects.

The locations of the proposed offshore wind farms in Spanish waters and the estimated power of each of these are shown. The largest concentration can be found in the area of the Straits of Gibraltar and the Gulf of Cadiz, which is one of the areas where the winds are strongest and most persistent. There are only five proposals along the Mediterranean shore and only two on the Cantabrian coast.

## BASIC DATA

## Wind zoning in the Spanish coast (sq km)

Apt zones	82 802
Apt zones with environmental constraints	88 127
Exclusion zones	54 625
Number of proposed off-shore locations	15
Estimated total power (MW)	7 207

## Governance

Legal framework	<ul style="list-style-type: none"> <li>• <a href="#">Law No. 9/2006, of 28<sup>th</sup> Abril, on the assessment of the effects of certain plans and programmes on the environment</a></li> </ul>
Institutions	<ul style="list-style-type: none"> <li>• <a href="#">Ministry of Industry, Tourism and Trade</a></li> <li>• <a href="#">Ministry of Industry, Tourism and Trade's General Directorate for Energy Policy and Mining</a></li> </ul>
Instruments	<ul style="list-style-type: none"> <li>• <a href="#">Renewable Energy Plan 2005-2010</a></li> <li>• <a href="#">Spanish coast Strategic environmental study for the installation of off-shore wind farms</a></li> </ul>

## Observations

The size of the areas that are apt, non-apt and apt with constraints is estimated as the study's cartographic information has still not been officially published.

Proposed location	Estimated total power (MW)
San Ciprian/Linda	599
Port of Bilbao	250
Roses	560
Palamos	560
Tarragona/Castellon	-
Salinas Point	498
Costa Azahar	498
Trafalgar Sea	1 000
Costa de la Luz	498
Off Conil-Vejer	250
Trafalgar bank	498
Las Cruces del Mar	1 000
Huelva/Cadiz	-
Gato Point	498
Costa de la Luz (Huelva)	498



