

A close-up photograph of a leaf with water droplets, overlaid with a white border and a purple bokeh background. The text is centered in white, bold, uppercase letters.

# APPROACH TO MENORCA SPATIAL PLANNING





**100.000 inhabitants**

**700 km<sup>2</sup>**



# LEVELS OF REGULATION

## **Spanish regulation:**

Electric sector activities  
Electric market rules  
Households energy requirements

## **Regional regulation:**

Energy sectoral master plan  
Climate change law  
Territorial Planning Law

## **Island regulation:**

PTI (Island Territorial Plan)

Menorca 2030 roadmap



# Menorca 2030 objectives

## ELECTRIC DEMAND

85 % covering with renewables

## LAND TRANSPORT

50 % reduction fossil fuel consumption

## THERMAL USES

30 % reduction fossil fuel consumption in services sector, households and industrial

## PRIMARY SECTOR

10 % reduction diesel consumption

**RENEWABLES DEPLOYMENT**  
PV  
Wind  
Others

PROMOTION OF SELF CONSUMPTION IN URBAN ENVIRONMENTS

**STORAGE**  
400 MWh

**ENERGY SAVING**  
Households  
Companies  
Public sector

## SUPPORT SYSTEMS

**THERMAL PLANT (Reserve)**  
**DOUBLE UNDERWATER CABLE**

# RENEWABLE GENERATION

## 2030 SCENARIO

### PV PLANTS

261 MWp  
402 GWh/year

### WIND

16,5 MWp  
41 GWh/year

### RENEWABLES NEXT TO URBAN ENVIRONMENT

30 MWp  
42 GWh/año

### OTHER TECHNOLOGIES (BIOGAS, WAVE ENERGY, ...)

4 MWp  
7 GWh/year

### STORAGE

400 MWh



# SPANISH REGULATION. CONDITIONS IMPOSED:

- TRANSPORT GRID PLANIFICATION
- RULES ON DISTRIBUTION GRID DEVELOPMENT
- ENERGY PRICES
- STILL DEVELOPING REGULATION FOR STORAGE AND AGGREGATORS



# REGIONAL REGULATION. CONDITIONS IMPOSED:

- FIRST VIEW OF ALLOWED AREAS
- ENVIRONMENTAL COMPETENCES
- SETS CONDITIONS FOR PERMISSIONS
- ROAD'S LAW



# ISLAND REGULATION. FEW COMPETENCES:

- MENORCA 2030 ROADMAP (NOT A LAW)

- ISLAND TERRITORIAL PLAN

DEFINITION OF ALLOWED ZONES FOR  
RENEWABLE ENERGIES IN THE ISLAND



# PLANIFICATION OF PERMITTED AREAS

## 1. RESTRICTED AREAS:

- ENVIRONMENTAL PROTECTION
- AGRICULTURAL AREAS
- INHABITED AREAS
- OTHER RESTRICTIONS (AIRPORT, ROADS, ...)



# PLANIFICATION OF PERMITTED AREAS

## 2. PERMITTED AREAS. CLASSIFICATION:

- PRIORITY DEVELOPMENT AREA
- HIGH FITNESS AREA
- MEDIUM FITNESS AREA
- LOW FITNESS AREA



# PLANIFICATION OF PERMITTED AREAS

## 3. PERMITTED AREAS. ZONING CRITERIA:

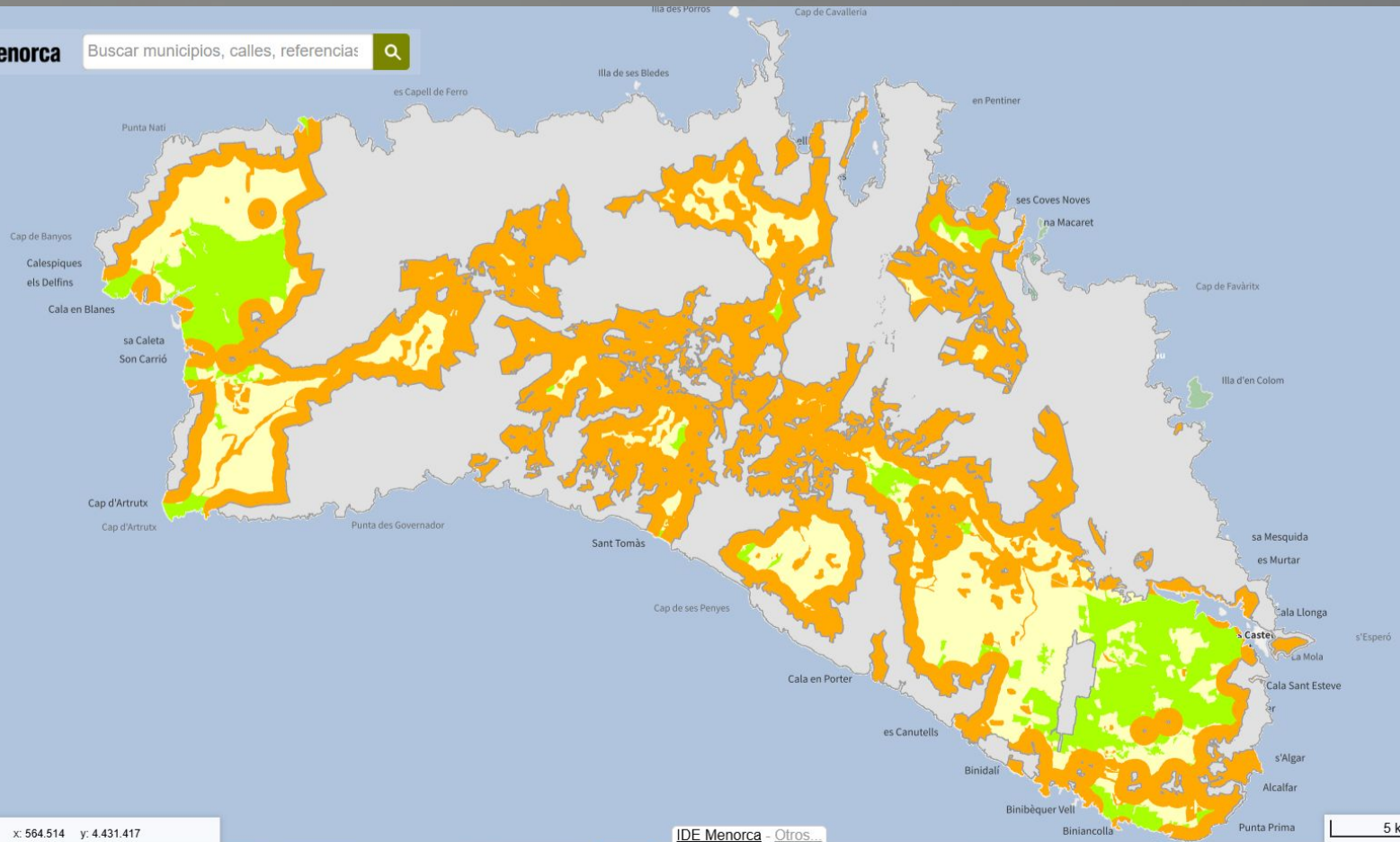
- GEOGRAPHIC ORIENTATION
- LAND SLOPE
- WIND RESOURCE
- DISTANCE TO ROADS
- DISTANCE TO HYDROGRAPHIC NETWORK (RISK OF FLOODING)
- OTHER



# PV PERMITTED AREAS

IDE menorca

Buscar municipios, calles, referències



CRS: EPSG:25831 x: 564.514 y: 4.431.417

IDE Menorca - Otros...

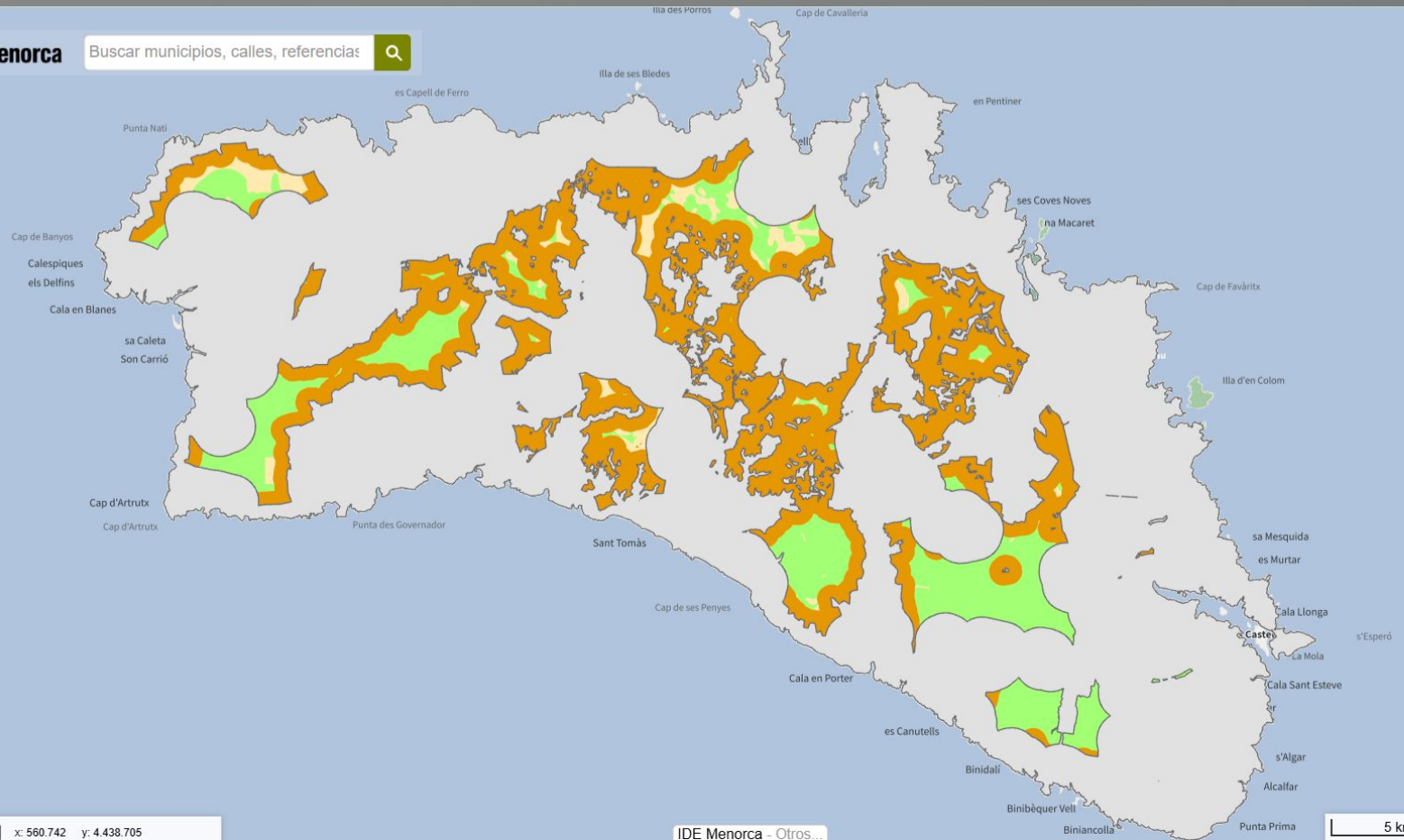
5 km



# WIND FARMS PERMITTED AREAS



Buscar municipios, calles, referencias



CRS: EPSG:25831 x: 560.742 y: 4.438.705

IDE Menorca - Otros

5 km



## MENORCA CHALLENGES:

- OVERLAPPING OF REGULATIONS
- OFFSHORE WIND FARMS
- MARKET RULES







**THANK YOU FOR YOUR  
ATTENTION!**