

# Unlocking the Potential of Spatial Planning for the Development of Renewable Energy Landscapes

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## GAME OF HRONES









The "Campiña" Cultural Landscape







What are the factors that explain the different value of urban and rural landscapes by the Spanish society?

How does the mushrooming renewable energy landscapes affect spatial planning implementation?

What makes cultural landscapes resilient to radical transformation through the installation of wind turbines or heliostats?



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#### The Siting of Renewable Energy Plants

Real Estate Bubble + Renewable Energy Bubble = Cultural Landscapes Degradation





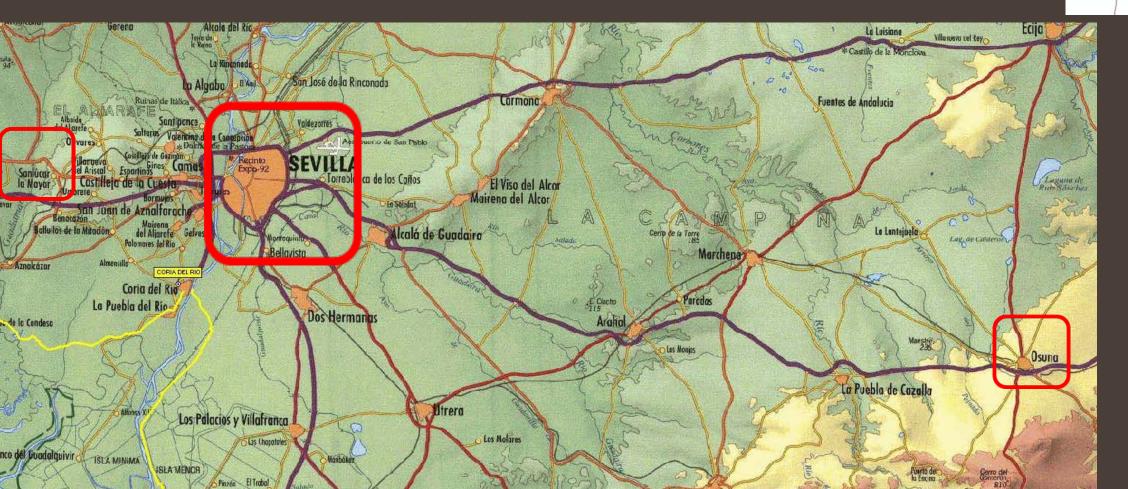


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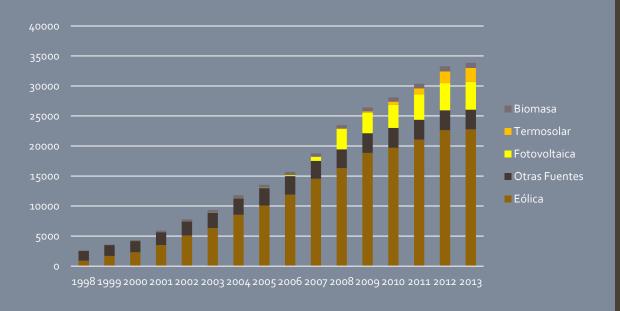
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Provincia de Sevilla 14.000 Km² Regierungsbezirk Dresden 7.930 km²





# The Success of the Implementation of Renewable Power in Spain



Energy Resources
Legal Instruments
Technical Instruments



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Law 54/1997 Incentives system over 50 MW RD 436/2004 Supplying general tariffs facilities per KW/h

RD-L 6/2009
Cutbacks and control mechanisms for new plants
RD 413/2014
Retroactive cutbacks

THE CUTBACKS HAVE THE RENEWABLE IMPLEMENTATION GO IN A NEW DIRECTION



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Andalusian Autonomous Administration Promotes Renewable Energies



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#### Andalusian Autonomous Administration

Regional Energy Plans had promoted photovoltaic energy

Environmental Authorizations had been less restrictive to small plant's power rating

Development of Spatial Planning instruments

Non strong concerns about Cultural Landscapes



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#### ADMINISTRATIVE AUTHORIZATION REQUIREMENTS

**ENERGY** 

-Special Regime Authorisation

- -Draft System
- -Draft System Aprovement
- -Operating Permit
- -Official Registration

**ENVIRONMENT** 

-From Environmental Impact Assesment to Environmental Qualification

-Operating Permit

URBAN <u>PLANN</u>ING

- -Building License
- -Draft system License
- -Partial Plant

Time period from three to eight months

#### Local Administration

Authorizations for the siting of renewable plants

Changes on land classifications and plot boundaries

**Building Licenses** 

New structures and constructions
Acceleration of Urban Permits processing

Tax Breaks

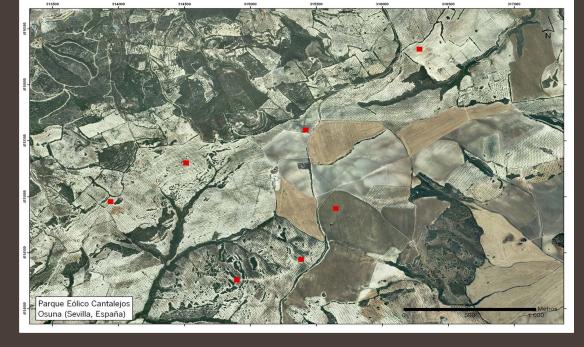
Councils push energy plants installations in return for economic benefits

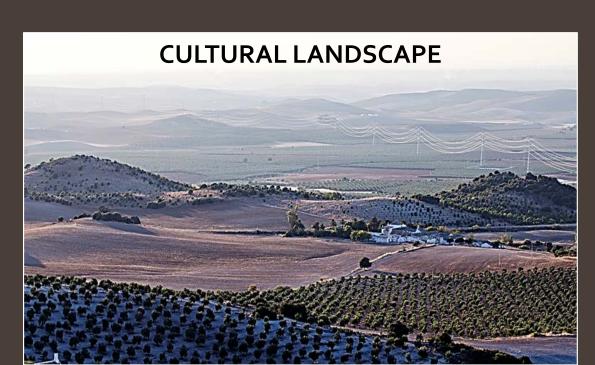


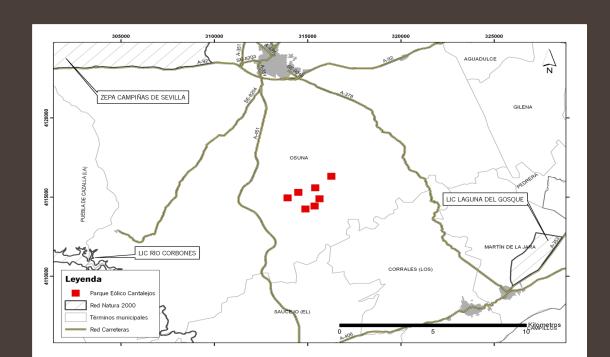
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#### MAIN ACTORS on SPATIAL PLANNING and SITING

- -7 wind turbines of 14.4 Mw
- -Supported by the *local council* & *land owners*
- -Opposition of *environmental groups* and *neighbors*

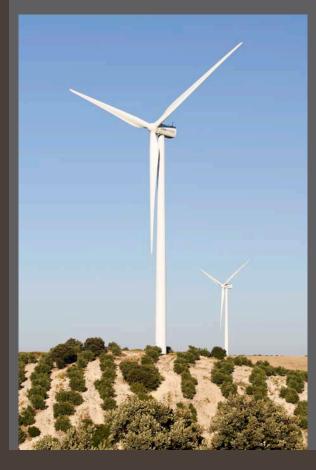


MEDIATION OF LOCAL COUNCIL



Company

### CANTALEJOS WIND FARM OSUNA MUNICIPALITY



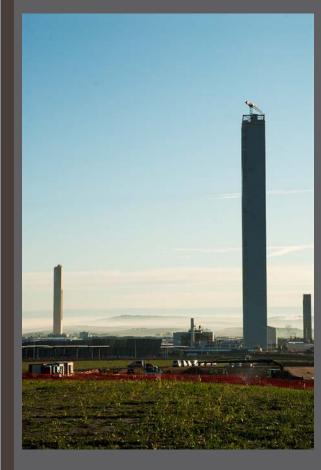
#### MAIN ACTORS on SPATIAL PLANNING and SITING

- -50 Mw
- -Supported by the *local council* & *company* (as *land owner*)
- -Opposition of *regional administration (Culture Department)* and *environmental groups*



MEDIATION OF COMPANY
Increases Plot Size
Project Modification
Compensatory Measures

### SOLNOVATHERMOSOLAR SANLUCAR MUNICIPALITY



www.focus.abengoa.es/web/en/patrimonio-art/campus/



#### Campus Focus-Abengoa

De la Tierra al Sol. Historia de los Paisajes del Guadiamar







#### Campus Focus-Abengoa

The Campus Focus-Abengoa has been created as a space to research and promote the historicallandscape aspects of the Guadiamar valley. It is an educational environment in which experiences related to the scientific reconstruction of the landscapes from the distant, ancient and recent past, and the present, can be discovered and conveyed. The content of the Campus is designed for environmental education in its broadest sense, bringing together the historical and natural heritage.

The "From the Earth to the Sun" exhibition, which includes historical-landscape, archaeological and technological subjects, includes a documentary, a gallery of panels, display cabinets and a cartographic panorama about the introduction of the Solúcar Platform in the area. It also includes screens connected in real-time to the control centre of the energy platform.









<<		September 2015			>>	
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
б	7	8	9	0	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



Focus-Abengoa Located in Sanlúcar la Mayor Sevitte.



Music Program

This is always based around the great Baroque organ of the Los Venerables



Reserve your visit Velazquez Centre and the Hospital de los Venerables From Monday to Friday, from 10 am to

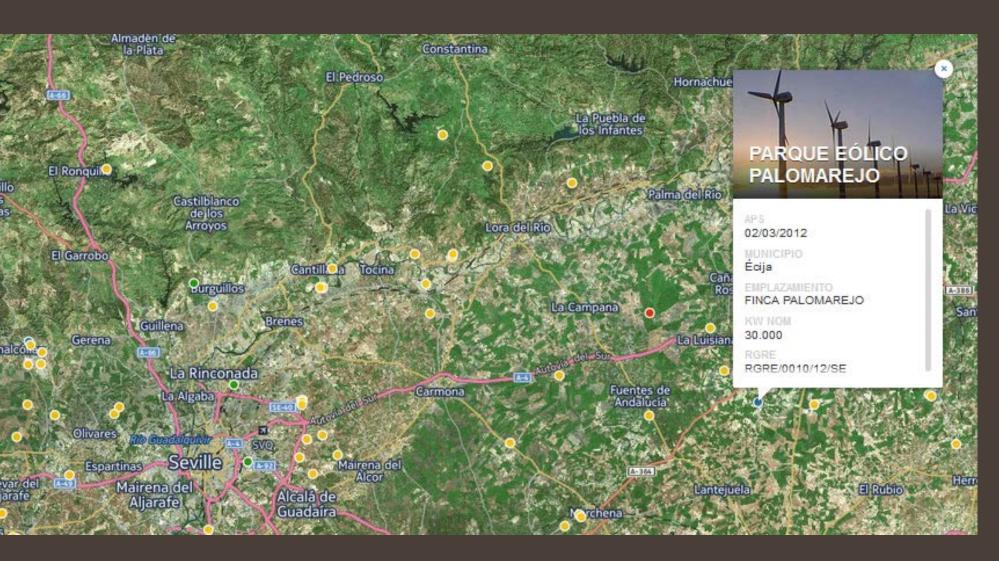
2 pm and from 4 pm to 8 pm. Tel. +34 902 091 137











http://renovables.tk

#### THE SITING OF RENEWABLE ENERGY PLANTS



INTEGRATING SECTORIAL POLICIES

INTO A TRANSVERSAL PROCEEDING

JOINT BUREAU & WORK AGENDA MONITORING & CONTROL

PUBLIC PRESENTATION PHASE

VIRTUAL GEOLATION TOOLS & PROJECT RECREATION
VIRTUAL CHANNELS FOR DISSEMINATING INFORMATION

**DECISSION MAKING PROCESSES** 

ALLEGATION PERIOD AS ETHICAL GARANTY OF PROJECTS



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PLATFORM FOR A NEW
GOVERNANCE RÉGIME
ON
RENEWABLE ENERGY SITING
INTO THE SPATIAL PLANNING



