



CENER

CENTRO NACIONAL DE
ENERGÍAS RENOVABLES

Navarra: A Holistic Institutional Vision for Renewable Energy



UNITED NATIONS
UNCTAD

kotra

Korea Trade-Investment
Promotion Agency

*Fostering the Green FDI Opportunity in Asia & the Pacific
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Javier San Miguel Armendáriz
Strategy & Business Development Manager
National Renewable Energy Centre (CENER)



MINISTERIO DE
INDUSTRIA, ENERGÍA
Y TURISMO

MINISTERIO DE
ECONOMÍA Y
COMPETITIVIDAD



Gobierno
de Navarra

Navarra – Risk Factor 9/365 ...



and 356/365 of sound diversification



Navarra

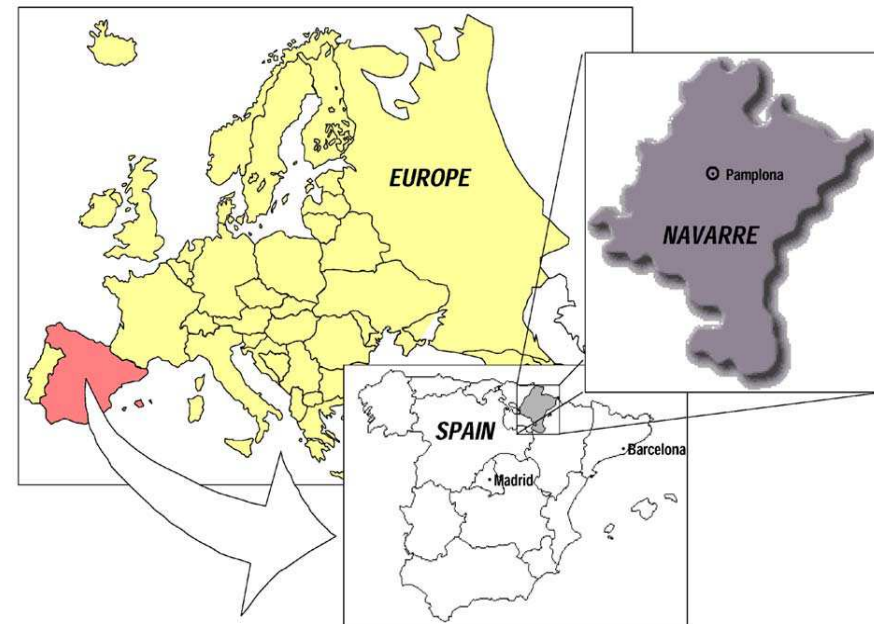
Navarra is one of Spain's 17 regions located in the North of the Iberian peninsula, with a surface area of 10,391 km² and a wide range of climate and landscape. Its most important assets are a well balanced productive structure, good geographical location, excellent infrastructures and autonomous taxation system.

The original lack of conventional ENERGY resources spurred:

1. 20% share of energy consumption produced from renewable resources since 2009 (1 of 3 EU targets for 2020)
2. Over 80% of the consumption of electrical energy is satisfied by Renewable Energies
3. 3/5 of the total electricity produced is exported

And as a consequence were created:

More than 5,000 jobs, 100 companies & 5% of RGDP



Renewable Energy in Navarra



Milestones

1982

- First government subsidy policies for renewable energies

1984

- First energy consumption analysis carried out in Navarra

1989

- **Government of Navarra created EHN. Owned by Cementos Portland, Iberdrola, CAN and SODENA**
- Small hydro power stations producing energy equivalent to over 10% of the region's electricity consumption

Milestones

1994

- First wind park in Navarra, with 6 x 500 kW wind turbines
- **Creation of Gamesa Eólica:**
Sodena, Gamesa and Vestas as initial co-investors.

1995

- Approval of the 1995/2000 Energy Plan. Objective was set for 2000: installed capacity of 341 MW from different renewable energy sources

1999

- CENER was born. Technical activities started in November 2000. In summer 2002 the Foundation started its commercial activities.

Milestones

2000

- Energy Plan easily fulfilled: installed capacity 667 MW, (474 MW corresponded to wind power generation).
- Generation of active industrial and productive sectors in the region: cover turbine assembly, blades, turbines, towers, control equipment, and components

2003

- Acciona Group bought EHN in 2005.
- More than 50 companies active in several renewable energy fields.

2004

- European Commission grants Navarre the award for best regional policy to promote renewable energies.

Foundations for the Future

Energy goals achieved:

- Self-supply of power using the renewable energy resources available in Navarra (+80%)
- Secure, high-quality electricity supplies with a diversified generation matrix
- Helping Spain to fulfil its international commitments Kyoto Protocol , EU 20/20/20
- Making energy planning compatible with sustainable development and socioeconomic growth

NET WEALTH CREATION

- Renewable Technology Goods Export approx. 2000 Eur p.p.
- Renewable Energy generation: approx. 1000 Eur p.p.

Unanimous Political Support

Political fragmentation in Navarra affects little its support of Renewable Energy as the benefits perceived by the general public opinion align all ideological interests.



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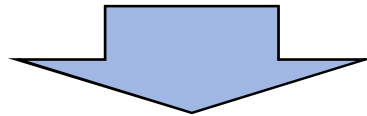
Key Factor - SODENA & Private Investment

SODENA
DESARROLLO DE NAVARRA



can 
PIONEROS EN BANCA CÍVICA


IBERDROLA



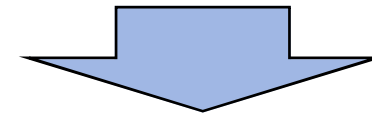

acciona
Energía

SODENA
DESARROLLO DE NAVARRA



Gamesa Aeronáutica

Vestas®




Gamesa



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Comunidad Foral de Navarra
Gobierno de Navarra



**Gobierno
de Navarra**

What is SODENA?

- Sodena is the main instrument of the Government of Navarra for regional business development, contributing actively and significantly to its sustained and balanced development.



- Constituted in 1984 as a public limited company and it is a self-financing organization.
- Sodena focuses on:
 - Generating and developing local investment projects
 - Attracting FDI projects to the region
- Sodena may finance as co-investor business projects that create value to the region
 - Venture capital is the main financial product offered.
 - Current portfolio > € 320Mio. invested
 - => 129 different ventures (44 directly and 75 through other funds)
 - Strategic Sectors: Energy & Environment, Pharmaceutical, Food Industry, IT



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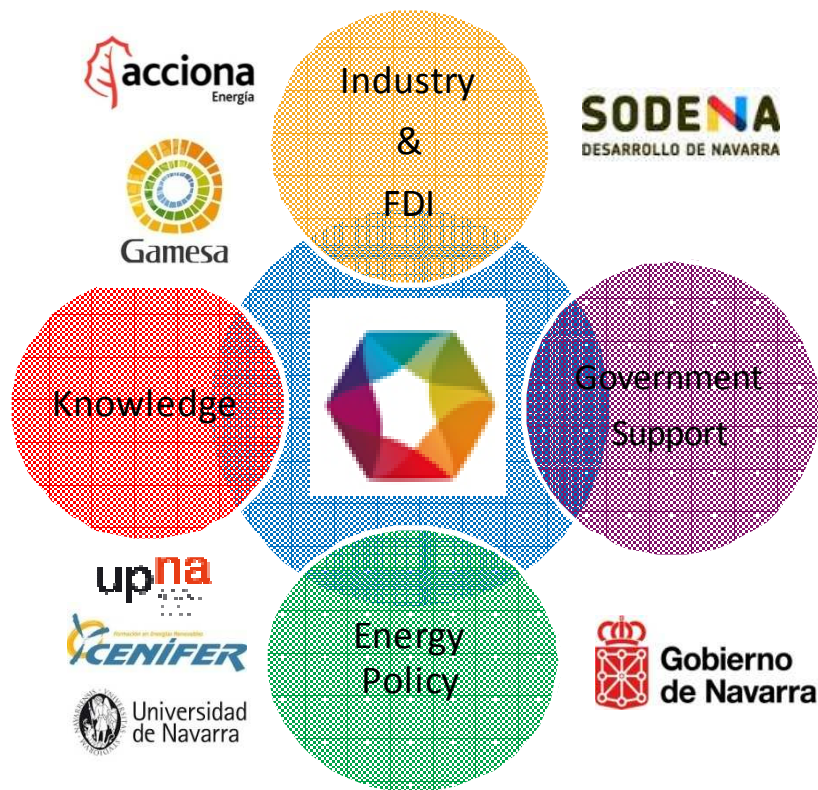


Chantel
Comunidad estratégica
Empresas, Investigación
y Tecnología

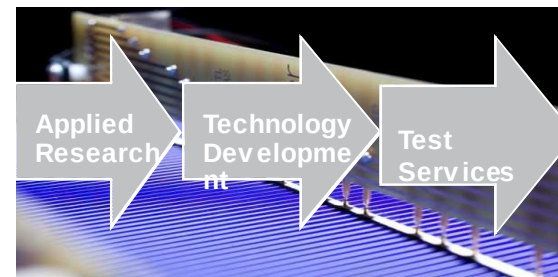


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de Navarra**

CENER – National Renewable Energy Center

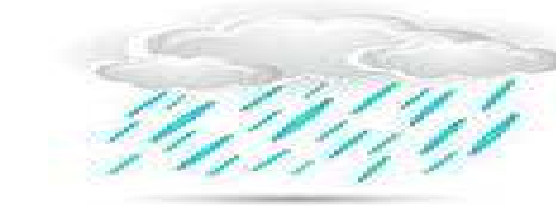


ADDED VALUE



**FIRMED
Industrial
Activity**

Summary



RE Promotion

SODENA
DESARROLLO DE NAVARRA

 Gobierno
de Navarra



Industry & FDI

SODENA
DESARROLLO DE NAVARRA

Key factors:

- Good Strategic Plan
- Resource Analysis
- Good policy
- Industry involvement
- Attract FDI
- Training

Technology Applied R+D

Technology
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Summary

SODENA
DESARROLLO DE NAVARRA

 Gobierno
de Navarra

FDI



Tecnology

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Ingeteam

 Jofemar

RÍOS
renovables

 **acciona**
Energía

 Gamesa

Fluitemnik

 **SOLARTIA**
TECNOLOGÍA Y ENERGÍA SOLAR

INDUSTRIAS
Laneko

 **JATORMAN**

Gamesa

 **CENÍFER**

Fotona

 **irunā** brakes

 **opde**
GROUP

 **BARRANQUESA**

CENER

CENTRO TECNOLÓGICO
DE ALTA CUALIFICACIÓN Y
PRESTIGIO INTERNACIONAL,
ESPECIALIZADO EN LA
INVESTIGACIÓN APLICADA
Y EL DESARROLLO Y
FOMENTO DE LAS
ENERGÍAS RENOVABLES
HIGH QUALIFICATION
AND INTERNATIONAL
RECOGNITION
TECHNOLOGICAL
CENTRE, SPECIALIZED
IN APPLIED RESEARCH
AND DEVELOPMENT,
AND PROMOTION OF
RENEWABLE ENERGIES

CONTACTO CONTACT

SEDES CENER CENER'S HEADQUARTERS

Ciudad de la Innovación, 7
31621 Sarriguren
Navarra, España
T +34 948 25 28 00

info@cener.com
www.cener.com



Javier San Miguel Armendáriz
Strategy & Business Development Manager
Email: jsanmiguel@cener.com



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