

STATE OF PLAY IN ASTURIAS, Added value of international cooperation on ORE (AAC Declaration and SAW Cluster)



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Just Energy Transition in Asturias. Renewable Energy Contribution

Strategic support: regional Energy strategy and amendments to national roadmap.

Goal 1

New energy supply model

Savings of 26% of primary energy consumption
66% of the electricity production with renewable energy sources

Goal 2

New energy consumption model

Final energy consumption savings of 9.1%
12.6% renewable contribution to final energy consumption

Goal 3

Promotion of other economic activities
and promotion of an ecosystem for the
generation of knowledge
Investment of €6,500M

Goal 4

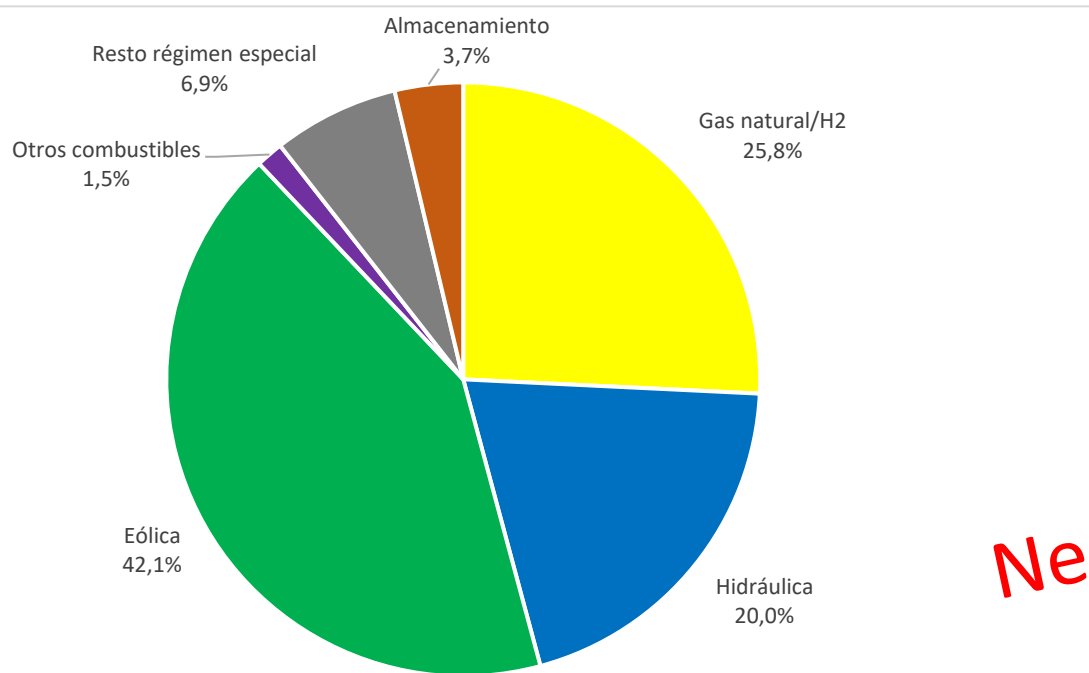
Focused on the citizen: generation of
employment, reduction of inequalities,
support for the people most affected by
the shift of the energy system
Generation of 6,300 jobs



Just Energy Transition in Asturias. Renewable Energy Contribution

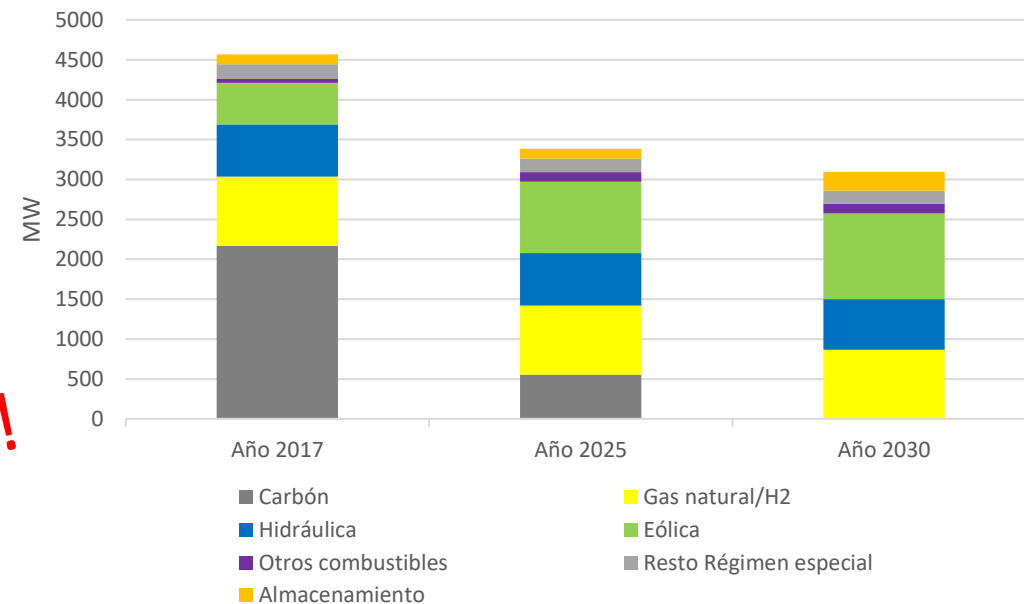
26% increase in installed power:

- **1,585 MW onshore wind power**
- **770 MW floating offshore wind power**



Installed Power. Year 2030

Necessary!



Role of Offshore renewable energies (ORE) in just transition in Asturias

ORE at regional level

LA1. Promote the use of energy resources in the region

M1.1.1. Promote the use of marine renewable energies

One of the best resources in the Cantabrian Sea, especially our west coast.

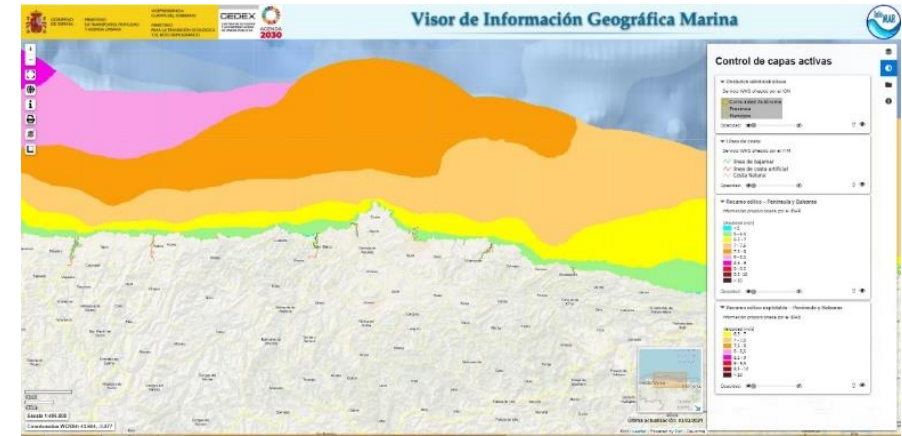
M1.1.2. Promote experimental offshore wind farms

To facilitate the use of marine resources: 2 **experimental wind farms** (100 MW) with floating technologies. To boost knowledge through involvement of research, technological centers, industrial value chain + biodiversity studies.

LA9. Promote and strengthen regional industrial chains linked to the energy transition

M3.9.1 Strengthen and promote the regional marine renewable energy industry

The transformation of the energy sector must be a **driver of activity and employment**. We propose offshore wind generation to strengthen the **regional maritime industrial chain**: engineering, electrical and mechanical components, plant operation and maintenance, shipping sector.



ENERGY:

- To install capacity of wind energy (onshore+offshore) similar to coal power plants closing.
- Wind energy will supply > 45% of regional electricity demand in 2030
- Offshore wind energy will supply 20% of regional electricity demand in 2030
- Need to ensure security of supply of regional industry, intensive in energy consumption.

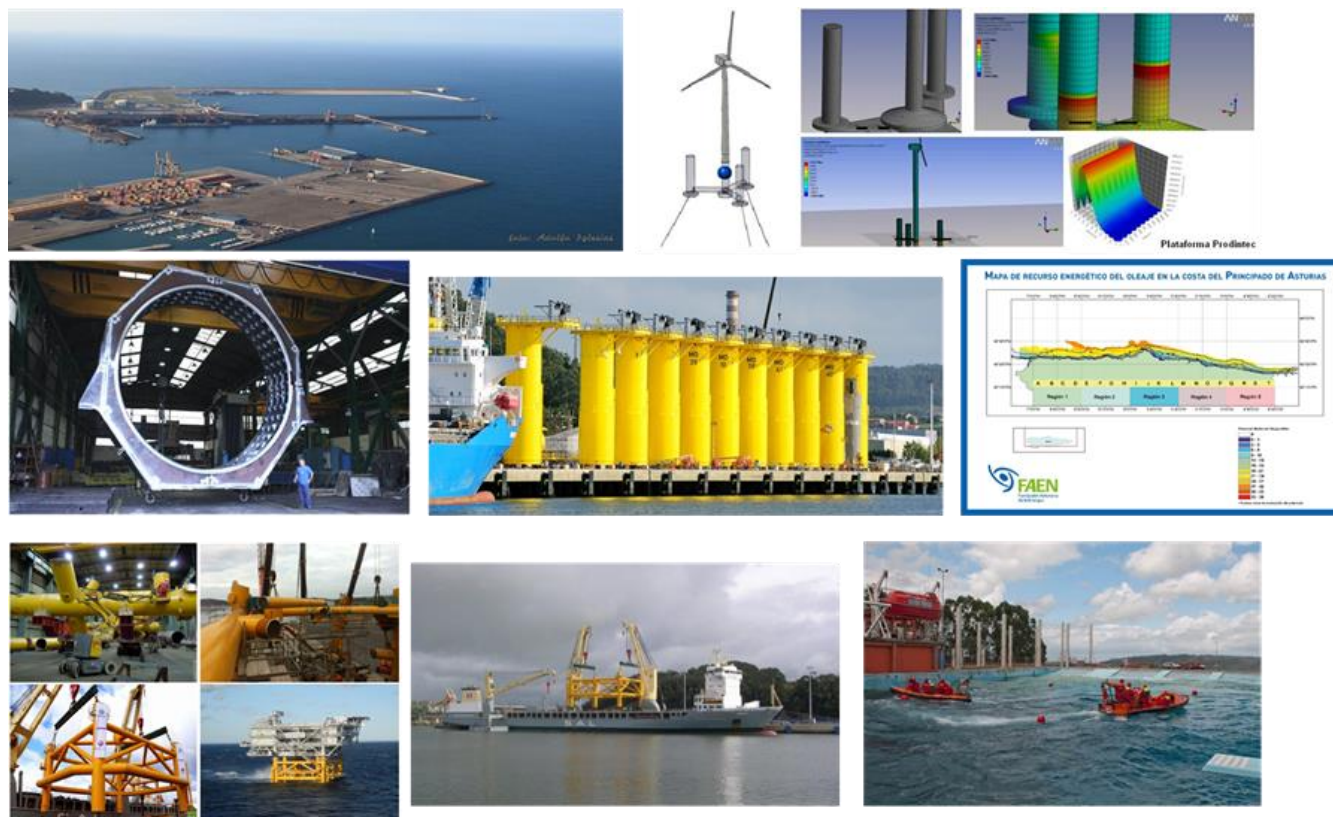
INDUSTRY:

- Asturian companies: expertise in offshore projects + technologies.
- Leading companies: manufacturers of steel, components and shipyards.
- Asturian companies taking part as suppliers of components for offshore technologies. Activity is generating employment of 1000 workers.
- Floating wind energy and green hydrogen will consolidate this employment and will create more jobs (several projects on-going).

Energy production capacity, job creation and industrial activity

ENERGY:

INDUSTRY:



Projects in the region

INDUSTRIAL PROJECTS

- Avilés Port: hub of components for offshore wind sector. Plans to increase area dedicated to offshore components.



- Gijón Port – El Musel – 3 projects for new factories for offshore components. The new direct employment can be up to 1000 Jobs.



ENERGY PROJECTS

Installation of offshore wind farms

Current Projects for installation of wind farms with a total capacity of 250 MW



Main Barriers and Solutions for the development of the ORE in Asturias

	Barriers	Solutions
MARITIME SPATIAL PLANNING	Maritime Spatial Planning for 2021-2027 not published yet. Decoupling between energetic and territorial planning. Difficult for the companies to plan offshore wind farms within the period 2020-2030 in Asturias.	Working with National Government to facilitate the development of the Maritime Spatial Planning for 2021-2027.
SHARING THE SEA SPACE	Difficulties to find solutions for sharing maritime space with other sea users.	Working with other users to find the best solutions for each part.
FUNDING OPPORTUNITIES	Big projects promoted by big companies looking for funds for the investment required. Support to the operation rather than to investment.	Working with different stakeholders to help promoters finding the best opportunities to finance projects. Taking advantage of some regional funding programs (Just Transition Funds)
ELECTRICITY MARKET	In Spain, no opened auctions at the moment; uncertainty in the sector, search of opportunities in other countries.	Working with national Government to accelerate the launching of the auctions and to expand the targeted areas.
RESTRICTED AREAS	Large areas where installation of offshore wind farms is not permitted ("protected" for different reasons)	Working with research centres for a better comprehension of the marine environment and analyses of the environmental impact of floating offshore wind farms. Proposal of a demo site area
GRID CONNECTION	Access to the grid in coastal areas not possible in some locations: need to improve or reinforce the grid for offshore projects.	Working with infrastructure operators to identify needs and to facilitate the reinforcement of the grid for offshore energy.

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Main Barriers and Solutions for the development of industrial projects in Asturias for supplying ORE projects

	Barriers	Solutions
LOCATION	Projects need important areas (in Ports) for big offshore components	Ports are working to make areas available for these projects. Port of Gijón is ideal with available areas and with reduction of coal logistic there will be more areas.
FUNDING OPPORTUNITIES	In this case, promoters are looking for grants to the investment	Working with stakeholders to help promoters in finding the best opportunities to finance projects. Some regional funding programs (Just Transition Funds)
MARKET	Global market very competitive with big companies	Working with regional maritime industrial chain and energy promoters to involve regional companies in new projects.

Atlantic Arc Commission Declaration on Offshore Renewable Energies

Development of offshore energy sector more successful with an **Atlantic basin approach**.



Regions from the Atlantic Arc:

- Similar problems and solutions.
- Some regions in the first steps while others are already advanced.
- Cooperation needed to maintain the leadership of European regions in offshore energy sector.

ACTIONS:

- The need to recognize the development of ORE in the Atlantic Area as STRATEGIC
- Permitting process is long and complex: regions must coordinate efforts to ensure that authorities foster a proportionate process.
- Importance of creating funding mechanisms for ORE projects and industrial infrastructures. Coordinating all levels of governance to bring new investment to ports in Atlantic.
- Regions are empowered to maximise local ownership of offshore renewable energy projects, retaining locally, the economic and social benefits, which are key to their social acceptance. ORE role is key, especially for regions in energy transition with impacts on the security of supply.
- The interest of the capacity of the ORE projects to boost regional industrial supply chains.

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SUPERCLUSTER

Atlantic Arc Commission Declaration on Offshore Renewable Energies



Regions from the North of Spain are already cooperating and linking their value chains to boost the offshore energy deployment in the Atlantic basin.

Supercluster Atlantic Wind - SAW

Strategic alliance of the 3 energy clusters in north Spain



Aim: to promote floating offshore wind energy in the north of Spain through the collaboration of regional value chains

- Cantabria-----[Sea of Innovation Cantabria Cluster](#)
- Galicia -----[Galicia Offshore Energy Group](#)
- Asturias-----[Consortio Tecnológico de la Energía de Asturias](#)

Specific objectives

- ✓ Presence in national and international market to facilitate collaborative projects.
- ✓ Development of industrial hub with great international reference in offshore energy.
- ✓ Facilitate communication with all levels of the Public Administration.
- ✓ Promote the value chain in northern Spain as an international benchmark for offshore wind power.
- ✓ Coordinate the development of training programs
- ✓ Give solutions to the needs of the industry.



www.supercluster.eu

In summary...



- ❖ Collaboration, public-private
- ❖ Strategies as driving force for renewable energies
- ❖ Capacities and strengths of the region
- ❖ To improve governance
- ❖ To believe in ourselves
- ❖ Facilitation of projects and funding
- ❖ Coexistence





Thank you very much for your attention!