





Webinar

SETTING UP COMMUNITY ENERGY ONE-STOP-SHOP

Date:

3 October, 2023 From 10:00 to 11:30 CEST





#EnergyCommunitiesRepository

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FUNDACIÓN ASTURIANA DE LA ENERGÍA



"ASTURIAS ENERGY AGENCY"

What FAEN is?:

- the Regional Energy Agency in Asturias (Spain).
- A Public Body attached to the Public Administration of the Principality of Asturias (Government of Asturias)
- A Non-Profit institution

Objetive: Promotion, support and execution of actions for energy in all areas of **Asturian society**

Staff: 16 employees

Board of Trustees and Collaborators Companies

of Asturias Energy Foundation

BOARD OF TRUSTEES





















COLLABORATORS COMPANIES





Main Headquarters at Mieres





Asturias Technology Park, Llanera Southwest Asturias, Tineo





















Main Activities



Information & Guidance on Energy

from Public Administration to Companies and citizens





Energy Advisors and Support

to Policy Makers & Public Authorities (Regional Government, Councils and Municipalities)

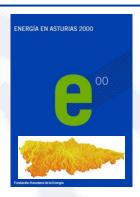


Regional Energy Assessment, Analysis and Reports



Balance Energético Principado de Asturias

2020 Versión provisional



Communication & Dissemination, Training and Awareness Raising



Research and Innovation & Territorial Cooperation

EU Funding Programmes











Interreg

Technical & Economic Support

SMEs & StartUp



Local Energy Communities



FAEN recognized as Community Transformation Office for the promotion and revitalization of energy communities



The Asturian Energy Foundation has recently been recognized and awarded as one of the Community Transformation Offices for the promotion and revitalization of energy communities, created by IDAE (Institute for Energy Diversification and Saving of the Government of Spain) for the promotion, encouragement and support of energy communities, within the framework of the Recovery, Transformation and Resilience Plan" financed by the European Union – NextGenerationEU.

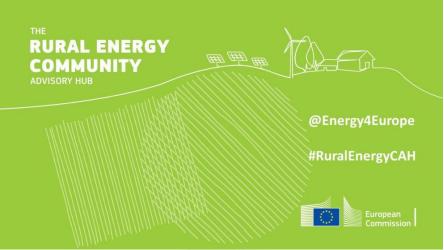












Regional Context





Region NUTS2 code': ES12 - Principality of Asturias Region NUTS3 code: ES120 - Asturias

Population: 1.004.499 inhabitants

Area: 10.604 km2

GDP: 23.441 M€



■ Energy model based on coal. Region in energy transition process. The last coal mine will close this year and the coal-fired power plants, 2.222MW, before 2030 (2 of them are closed)

• Industrial region - 20% of Gross Value Added comes from industrial activity. Big concentration of electro-intensive industry at regional level with strong difficulties to be decarbonised.



Closure of coal mining

- 2021 < 1.000 workers
- 48% of national coal production



Closure of thermal power plants

- 2.222MW 49% of regional installed capacity
- 73,4% share in the mix



Electrointensive industries

- 18-21% of regional Gross Value Added
- 69% of energy consumption
- Difficulties to decarbonize

Fast

Challenging

Coal Region in Transition





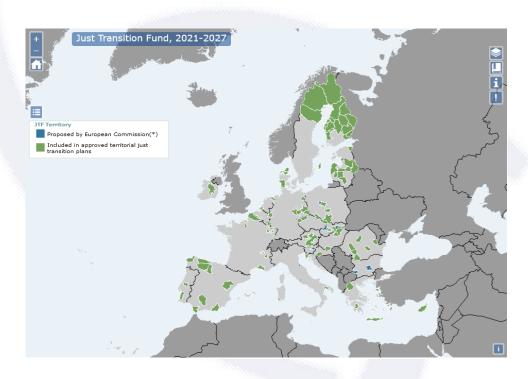
"We must show solidarity with the most affected regions in Europe, such as coal mining regions and others, to make sure the Green Deal gets everyone's full support and has a chance to become a reality."

Frans Timmermans, Executive Vice-President of the European Commission

What are Territorial Just Transition Plans (TJTPs)?

TJTPs should be prepared by Member States together with the relevant local and regional authorities of the most-affected territories. They should provide a detailed plan to meet EU climate and energy targets by 2030 and 2050, and evidence of the impact of this transition process.

These plans should identify specific territories affected by the transition. In order to be eligible for JTF funding, these territories must be able to justify their dependence on fossil fuels or greenhouse gas-intensive activities, the social, economic, demographic and environmental challenges stemming from the phasing out or transforming of activities, and negative impacts resulting from the transition.





Industrial Descarbonization



Asturias is an Industrial region - 20% of Gross Value Added comes from industrial activity.

Big concentration of electro-intensive industry at regional level with strong difficulties to be decarbonised.



























Minerals

Pulp & paper

Refining

Steel

Water

Cement

Ceramics

Chemicals

POLICY INSTRUMENTS

JUST-ENERGY Strategies & Plans
Observatories

Energy Efficiency, 1st

Reducing Demand
Buildings, Districts and Cities
Neighbourhoods
Regeneration
Social Housing

Industrial Decarbonization

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Electro-Intensive Industry (SPIRE) Carbon Capture, Usage & Storage, (CCUS)

Waste Heat Recovery

A Hydrogen Valley

Green H2,
Production, Distribution & Demand
Energy Carrier and Industrial Feedstock
Mobility and Transport,
Maritime Ports

Mobility & Transport

Sustainable and Resilient
E-Mobility & H2 Mobility
Intermodality
Dissemination & Education

Coal Region in Transition

A Territorial Just Transition Plan,
Coal phase-out commitments,
Mining closures and land
reclamation,
Closure of Thermal Power Plants

Local Energy Communities

One Stop Shop
Governance models, technology and
investment plans
Consumers and Prosumers
Democratization, energy (price €) Market
Demand Response, Flexibility, P2P

CLIMATE AND ENERGY

Sustainability, Resilience, Adaptation

Bio-Economy

Biogas, Biomass Waste Recovery & Circular Economy Primary sector: Forest & Agro

Renewable Energy Technology

Marine renewable energy (Offshore, waves, tides, algae)

DIGITAL 4 ENERGY

Twin Transition, Tools and Services

PEOPLE

Social Innovation,
Empowering, Engagement,
Training, Citizen
Participation, Energy
Democracy, Inclusion,
Equality, Energy Poverty,
Fair Deal, Just Transition,
Re-skilling,

Promoting Local Energy Communities



FAEN, as Asturias Energy Communities office, implementing the concept of **One-Stop-Shop** for Energy Communities in Asturias.











- offering a specific set of services
- accompanying the whole process
- monitoring a full alignment to existing regulation
- Disseminating best practices and regional lighthouse initiatives

Providing a set of services

FAEN
Fundación Asturíana
de la Energía

FAEN, as Asturias Energy Communities office, is offering a specific set of services to support Energy Communities (EC) initiatives (renewables, citizen, local or rural),



Technical Assistance

How to size the solar PV system
What elements, select location
Grid connected or standalone
"point of interconnection"
Existing ICT tools

A proper Governance Model

Guiding Agreement(s) among members
How to fit distribution coefficients
A legal entity is needed
(association, cooperative...)
How to involve public bodies, municipalities in
the loop

Financial criteria and advice

Viability and financing plans
Approaching possibilities (individual or collective - own investment)
Calculating economic parameters (Payback and Rol)
Public aids and other grants or subsidies

Legal, regulatory and policy framework

How to stay a collective self-consumption facility,

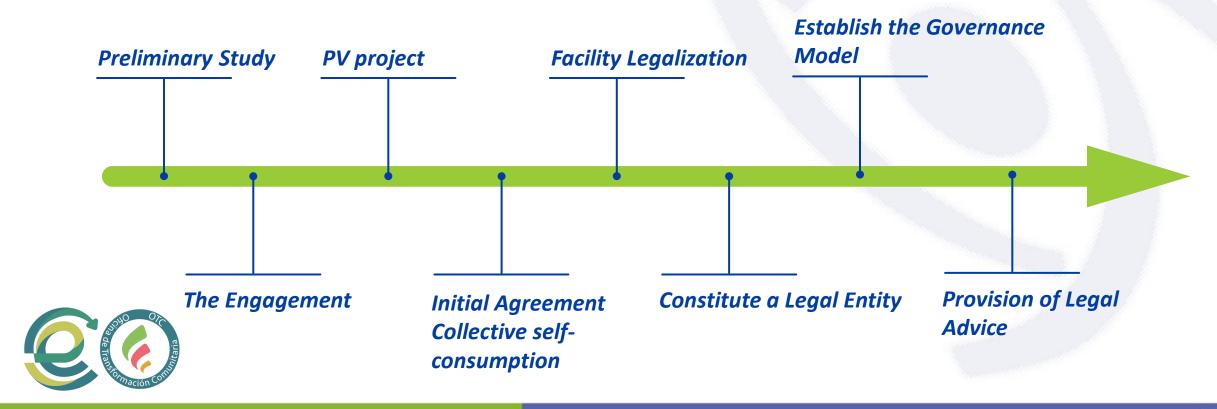
Modalities of self-consumption, with or without surplus, with or without compensation
Challenges and benefits of public-private collaboration

Accompanying the whole process

Fundación Asturiana de la Energía

FAEN, as Asturias Energy Communities office, is **accompanying the whole process** to support Energy Communities (EC) initiatives (renewables, citizen, local or rural),





Local Energy Communities



A local energy community is often not a one-size-fits-all solution: Local - rural, renewable, citizen - energy community

Moving forward from PV systems:



- Energy Efficiency First Principle
- Alternative heating systems:
 - District networks for Heating (and cooling)
- Local Renewable Energy Re-Sources:
 - mini-hydro, biomass,
- Sharing resources for mobility & transport
- Social Innovation for Engagement and public Participation at Energy Transition (training, reskilling)
- Neighbourhood Regeneration Process

Seven Asturian LEC lighthouse initiatives



Moal, Peón, Bimenes, Llanera, Aller, Langreo, Santa Barbara (Gijón)

Santa Bárbara constituye "Asol Asturias su comunidad energética

Por Mariló Hidalgo - 26 enero, 2023

Xúntate Llanera o cómo llegar a ser la

primera comunidad energética de





CTIC impulsa un programa piloto de comunidad energética en Peón



Los participantes, en la presentación del proyecto. E. C.

La Voz de Asturias Aller pone en marcha dos comunidades solares de autoconsumo colectivo



Se instalarán paneles fotovoltaicos en los colegios de Moreda y Cabañaquinta para abastecer a los propios centros, así como a comercios y residentes de la zona

28 dic 2021 . Actualizado a las 14.45 h.

Fontoria (Bimenes) se convierte en el primer pueblo de Asturias que produce ya su propia energía eléctrica

Los vecinos de Fontoria, en Bimenes, delante de los paneles solares de la primera comunidad energética rural de

El proyecto, que busca ahorrar entre un 20 y un 30 por ciento, nace con 38 vivien

Siete vecinos ponen en marcha los paneles solares que abastecerán a esta aldea yerbata

Eduardo Lagar

Asturias

23.05.23 | 19:46 | Actualizado a las 10:46























EU programmes



R&D + Territorial Cooperation

Additionally, FAEN is participating in EU programmes and projects oriented to support energy communities' initiatives (i.e., DATACELLAR, GLOCALFLEX, both Horizon Europe projects).

Not only EU programmes oriented to R&D or innovation actions but also other actions more oriented to investment like PDAs (FAEN is currently preparing one PDA), investment funds, I3 instruments, etc. España





Thank you!!

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