



UNIVERGY  
SOLAR

# ENERGÍA EÓLICA

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# ABOUT UNIVERGY

Univergy is a Spanish-Japanese company specialising in the **development of solar, wind and green hydrogen projects**. We were founded in 2012 and since the beginning we have experienced strong growth.

We have a strong international presence focused on the safest and most attractive geographies for renewable energies. Our reference markets are in **Europe, Asia-Pacific and Latin America**.

We are currently advancing downstream integration of the value chain (EPC and operation).

For the development of certain projects in **Europe and Japan**, we have a strategic alliance with the global investment fund Macquarie Group, which is materialised in two joint ventures (Hinode Energy, in the Japanese market, and Nara Solar, in the European market, both of which are 50% owned).



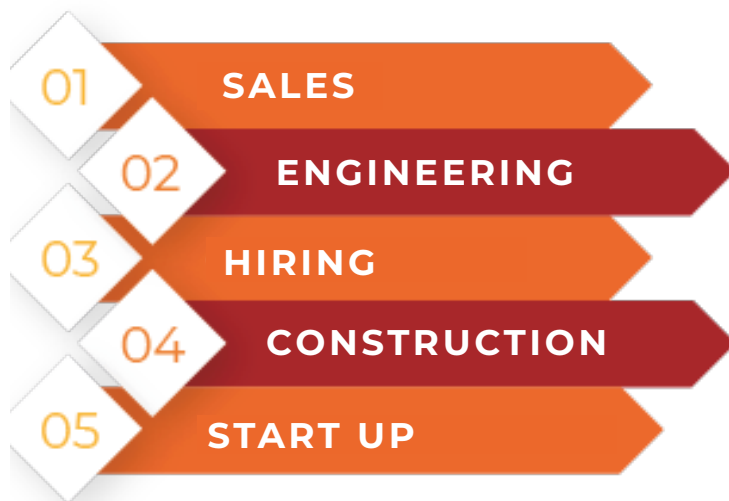
# UNIVERGY IN THE WORLD



**1.135,6 MW** Wind energy

# OUR VALUE CHAIN

- Planning, layout calculations, preliminary studies, planimetry, electrical and mechanical civil design and construction coordination.
- Management of contracts and agreements with suppliers seeking to optimize quality, quantity, cost, time and guarantee conditions.
- Management and administration of the works under the highest quality criteria, ensuring at all times the investment and the expectations of clients and partners. Includes the coordination of all phases of the detailed engineering project, final design and construction management.
- Initialization and administration of the installation seeking to meet performance and profitability expectations. The start-up guarantees a design installation and connection according to the regulations and the specific requirements of each market.



# OUR VALUE CHAIN

## GOAL

Spain intends to achieve the objective of 42 renewable energy in the electricity mix and reduce greenhouse gas emissions by 23 (PNIEC 2021 - 2030)

Univergy intends to develop from 300 MW to 450 MW in Castilla y León.

## ADVANTAJES

The renewable sector created 11.5 million jobs worldwide in 2019

Renewable energy improves areas in danger of being uninhabited

## DATA

Wind power added 1,600 MW in Spain in 2019.

2019 has been the year of the start-up of offshore wind energy in Spain.

58.6% of the energy was generated without emitting C O<sub>2</sub> into the atmosphere.

Wind systems represent 20.6 in the total mix of electrical energy in Spain in the total mix of electrical energy in Spain.



# ONSHORE

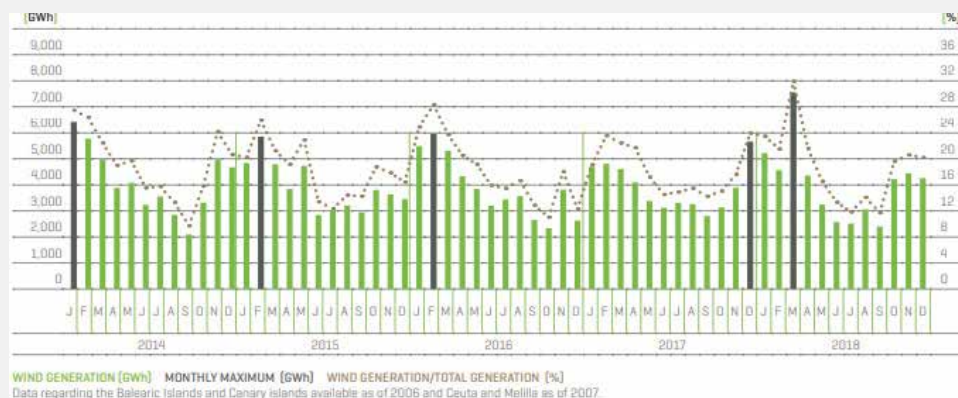
## SUMMARY

Wind energy is the main renewable source of electricity generation in Spain.

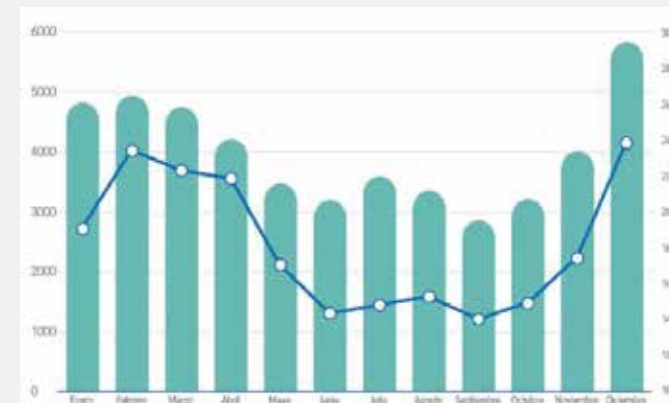
With a cumulative installed wind capacity of 25.7 GW at the end of 2019, Spain ranks second among the European leaders in installed wind capacity and fifth in the world. All installed Spanish wind capacity is on land. Offshore technology is just beginning and will launch its first projects in 2024 - 2025.

Onshore wind in Spain rebounded in 2019 with 21 GW of installed capacity. Initially, 46 GW of auctioned wind capacity were due to come online by the end of 2019, although many projects are likely to be built outside of regulatory subsidy. Instead, record energy prices are allowing developers to secure income through the wholesale market and PPAs.

**Wind power generation, maximum values monthly and participation in the total generation mix**



**Monthly wind power generation total (MW) and shared**



# PROJECTS IN SPAIN



## WIND

- Sotresgudo (Burgos)
- Fuentes de Valdepero (Palencia)

## HYBRIDS

- Amusco (Palencia)
- San Martín de Valvení (Valladolid)
- Villafrechós (Valladolid)
- Maderuelo (Segovia)
- Moreruela de los Infazones (Zamora)



# TECHNICAL CONDITIONS

DENOMINATION	PROVINCE	POWER	DISTANCE TO CONNECTION	SUBSTATION
Sotresgudo	Burgos	80,6 MW	7.100 m	HERRERA 400
Fuentes de Valdepero	Palencia	37,2 MW	7.700 m	PALENCIA 220
Amusco	Palencia	49,6 MW	14.500 m	PALENCIA 220
San Martín de Valvení	Valladolid	44,5 FV + 49,5 EOL	12.500 m	RENEDO 220
Villafrechós	Valladolid	70,3 FV + 31 EOL	28.000 m	TIERRA DE CAMPOS 400
Maderuelo	Segovia	110 FV + 68,2 EOL	11.000 m	FRESNILLO 400
Moreruela de los Infazones	Zamora	15 FV + 12,4 EOL	1.000 m	MORERUELA 400







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