

Commitment to Smart Grids



Transmission and distribution of electricity.

4,571

High-to medium voltage transformer substation.

1.6 millions

Medium-to low voltage distribution transformers.



Construction, operation and maintenance of lines, substations, transformer stations and other infrastructures to bring electricity from production centres to the end user and to integrate distributed generation.

19,489 km

of transmission overhead lines

1,022,113 km

of transmission underground lines



Networked storage.

1,342 km

of distribution overhead lines

197,193 km

of distribution underground lines

Key Figures Today

1.2 M km distribution lines
>20,000 km transmission lines

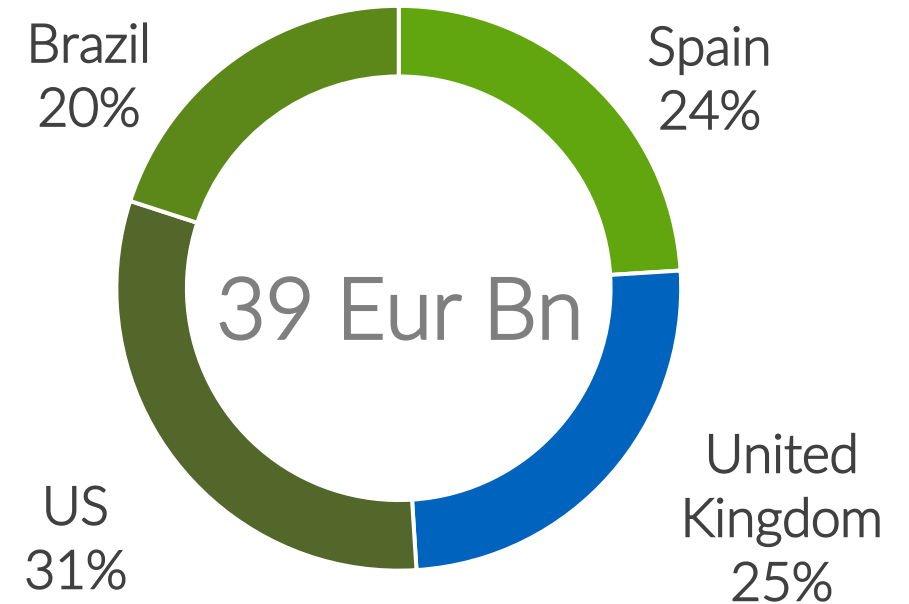
~300 TWh energy distributed

34 M connections
More than 15 M Smart meters

>70% D&T lines digitalized

>70% Smart Meters in Europe and US

2022 Asset Base by Geography



80% in Distribution and
20% in Transmission

STABLE FRAMEWORKS IN HIGH CREDIT RATING COUNTRIES

Network Business in Spain



11.4 M CUSTOMERS
(40% of Spanish population)

3,400 EMPLOYEES

1,600 M€ EBITDA

800 M€ INVESTMENT

Networks: Delivery of Transmission Projects

STRONG COMPETITIVENESS TRACK RECORD, LEADING AWARDS IN AUCTIONS

HVDC EXPERIENCE: 5.4 GW & ~1,300 km



Western Link (submarine line) ✓ *In operation*

Capacity **2.2 GW HVDC**

Cable length **850 km**

One of the longest *subsea* HVDC bi-directional cable in the world



Eastern Link (submarine line)

Capacity **2 GW HVDC**

Cable length **~370 km**

(Secured,
engineering in
progress)



NECEC

Capacity **1.2 GW HVDC**

Cable length **314 km**

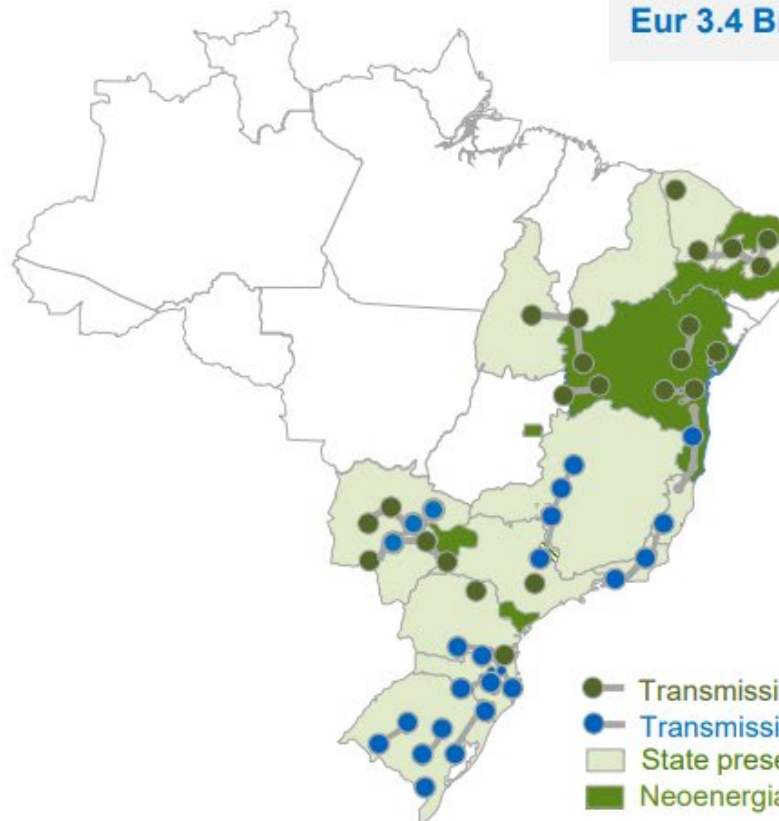
(Construction
started)



~8,500 km IN HVAC TRANSMISSION AUCTIONS

Eur 3.4 Bn awarded in 15 projects

51 Substations



- Transmission project in operation
- Transmission project under construction
- State presence
- Neoenergias's distribution regions

Operating & Dispatching Energy Assets

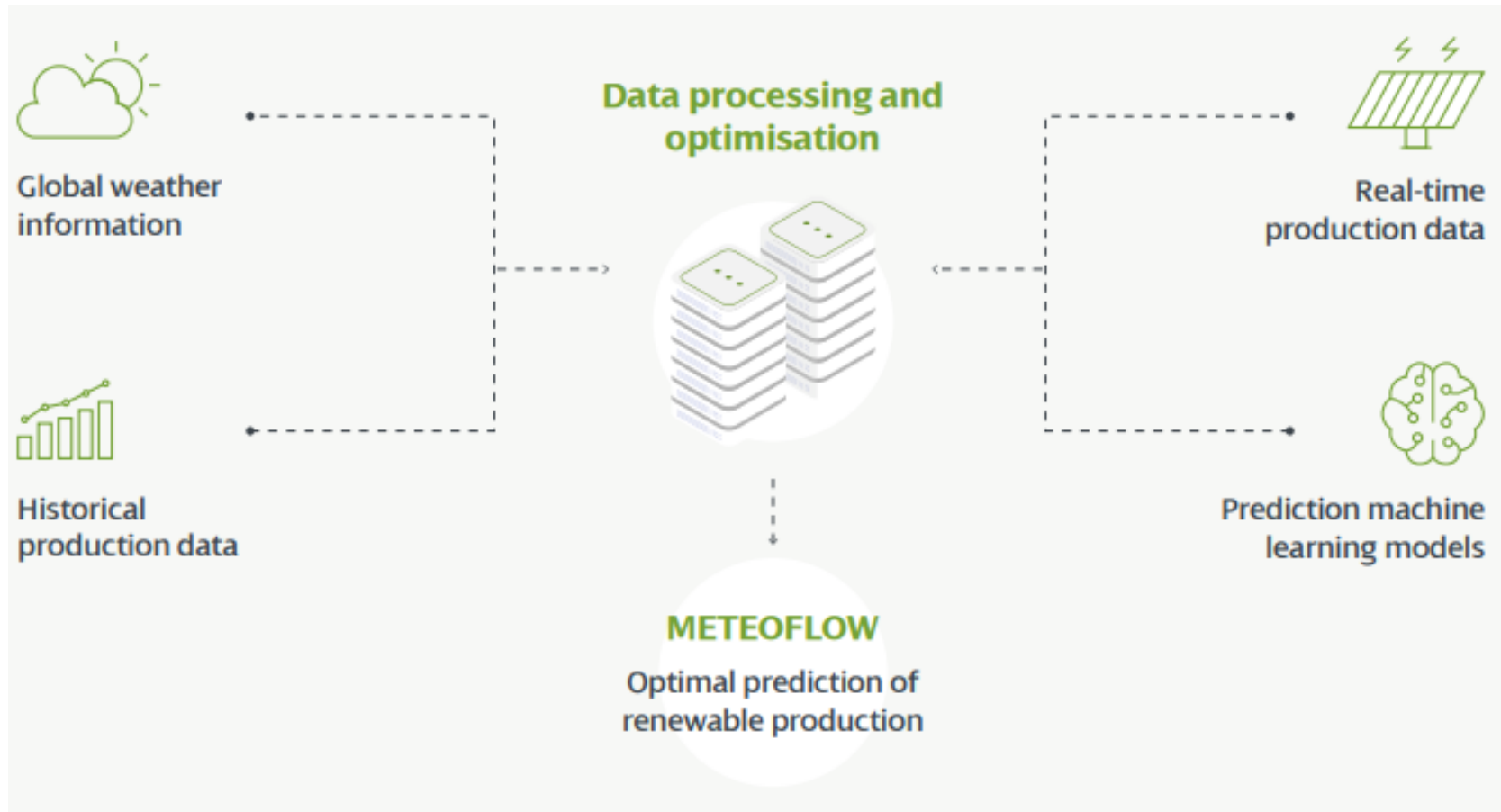
1. Identify the geographical areas where the most energy is consumed.
2. Offer energy demand and generation forecasts.
3. Able to respond to the electricity demand needs of citizens.

Global Optimal Deployment centre



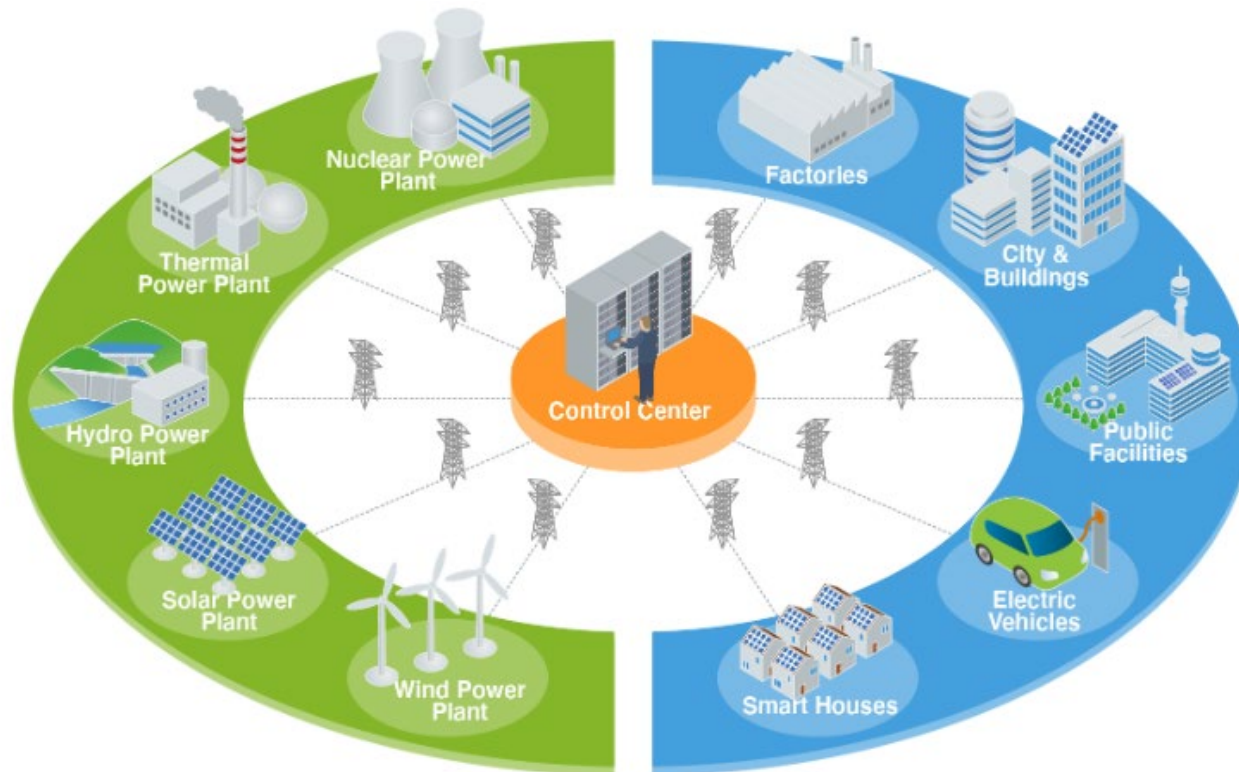
MeteoFlow

MeteoFlow : Anticipating weather events to forecast and optimise renewable production



World Benchmark in Smart Grids

The Iberdrola group considers grids to be a key factor both for the electrification of the economy and for the revitalisation of the territories in which the company operates.

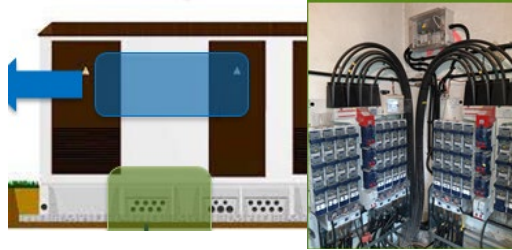


Digitalization & Grid: smart meters

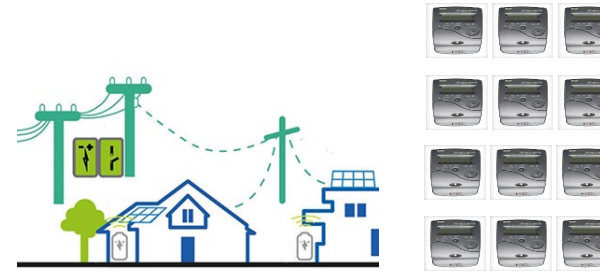
~1.000 primary subs



~100.000 secondary subs



~11 M smart meters



~11 M customers



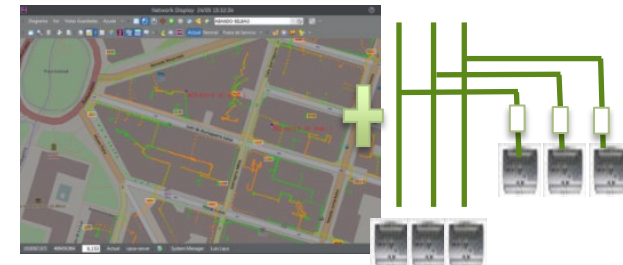
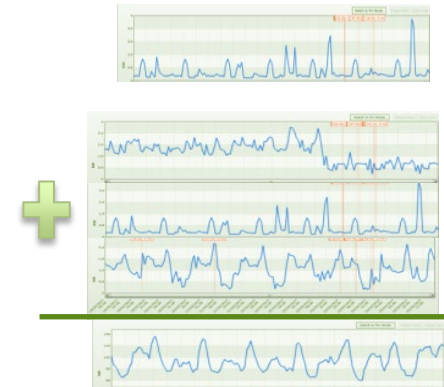
DATA

INFORMATION

KNOWLEDGE

WISDOM

- Hourl Energy profiles from Smart Meter
- Billing System
- Tool: energy balance
- Customer App
- Grid capacity
- Non-Technical losses detection
- Low voltage planning
- Forecast new scenario: EV...



The 'Global Smart Grids Innovation Hub' in Bilbao, Spain

Objectives

Respond to the challenges of the energy transition

Combine the company's technological capacity with that of collaborators: suppliers, universities, technology centres and startups

Attract the best international talent

Double the Iberdrola group's projects related to innovation in smart grids



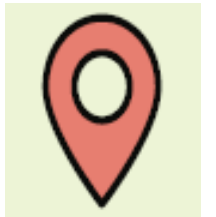
Visit by King Felipe VI



120 identification projects worth 110 million euros



200+ professionals



+1,000 m² in Larraskitu (Bizkaia, Spain)

Start-up Challenge

We challenge start-ups to come up with innovative, competitive and sustainable solutions

- Develop software to predict climate change damage to our network assets (Woza Labs, Spain)
- Develop the remotely operated underwater vehicle to improve pipeline cleaning at thermal power plants (SSM, Spain)

etc.



About Iberdrola Renewables Japan K.K.

Company Name	Iberdrola Renewables Japan K.K.
Location	2-15-19 Tsukiji, Chuo-ku, Tokyo 104-0045 Millennium Tsukiji 7th floor
Date of Establishment	December, 2020 (changed to the current trade name on April 1, 2021)
Representative	CEO Jose Oriol Hoyos
Director	Jose Oriol Hoyos, Agustin Arranz De Pablos, Ignatius Olazabal Olarreaga
Country Manager	Chikako Nakayama
Capital	2,090m JPY
Shareholders	Iberdrola Renovables Internacional, S.A.U.
Shareholder Information	https://www.iberdrola.com/
Number of Employees	19 people (as of February 1, 2022)
Business Content	Development, ownership, investment, construction, operation, maintenance and asset management of renewable energy powerplants