

Iberdrola, "utility of the future":

Building the foundations for growth in the next decade

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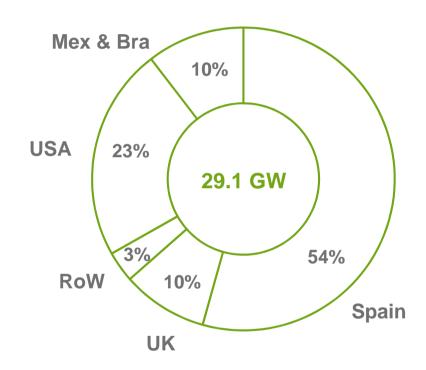
## **Overall Strategy**

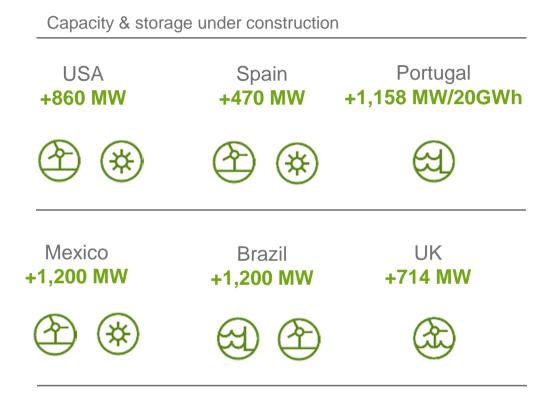


#### **Current Situation Overview**

Iberdrola: consolidated leading position in the renewable sector...

Capacity installed\*





\*Hydro 44% of total capacity

...with more than 29.1 GW installed

and over **5.6 GW** under construction

#### As of today we are already 13% above the 2016-2020 growth Plan commitments



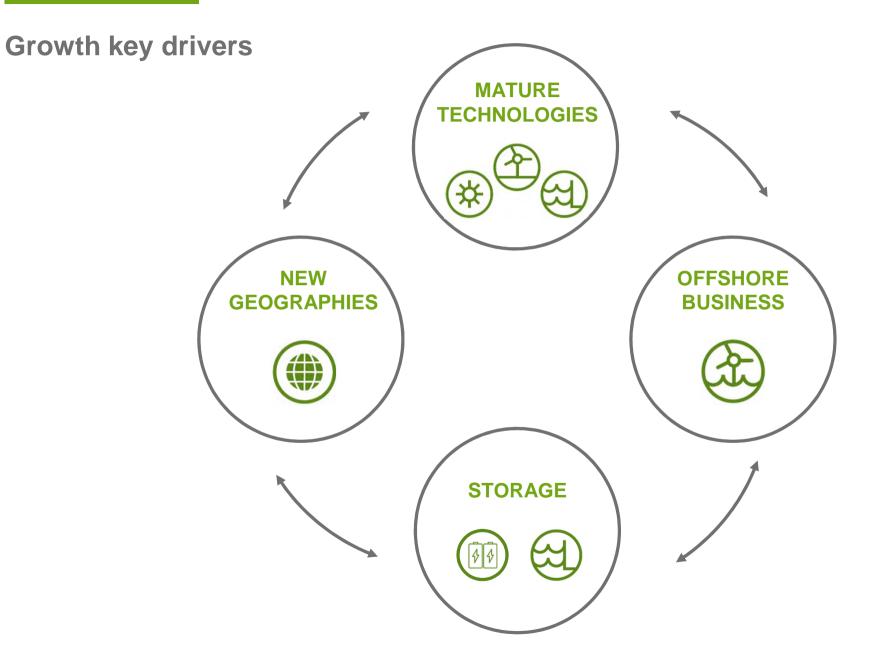
Profitable growth	Significant growth in core markets and expanding Iberdrola's capabilities across further geographies
Operational excellence	Best in class through Iberdrola's O&M model Asset life cycle management through digitalization
Customer at the centre	State of the art products to meet customers' needs
Capital Optimisation	Opportunity to co-invest in projects to improve competitiveness





# 2018 – 2022 Plan: Profitable growth







#### Profitable growth

Mature renewable technologies: consolidating leadership in core areas with attractive returns

Strategy focus on auction processes with acceptable levels of return...

#### Brazil

**295 MW** awarded in December 2017 in Leilão A-6 at the **highest price**.

...and taking advantage of Iberdrola's capabilities to achieve attractive IRRs when auction prices do not provide reasonable returns

#### Spain Mexico Portugal

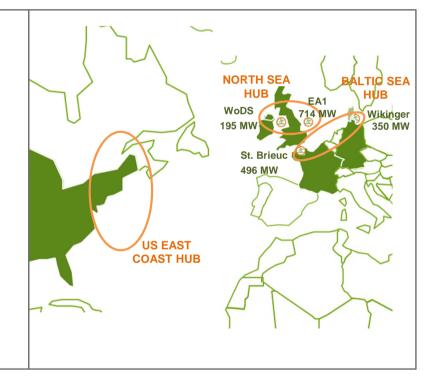
844 MW of wind and solar PV and 1,158 MW of hydro

& storage being constructed under internal schemes.

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- 3 key hubs in quality areas
  - Project pipeline by hubs
  - Baltic Sea: 900 MW
  - North Sea: 2,800 MW
  - US East Coast: 4,000 MW
- Strong and extensive pipeline: over 7.5 GW



#### ... consolidating as core business

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#### Profitable growth

#### Successful experience in already materialized projects

#### **Operating wind offshore facilities with high EBITDA/MW ratio**

West of Duddon Sands - 389 MW (50%IBR)

Location: Irish Sea, UK WTG: 108 turbines (Siemens)

Investment: GBP 1,250 M

WEST OF DUDDON SANDS, UK

Wikinger - 350 MW

Location: Baltic Sea, Germany WTG: 70 turbines (Siemens Gamesa) Investment: EUR 1,400 M



WIKINGER, Germany

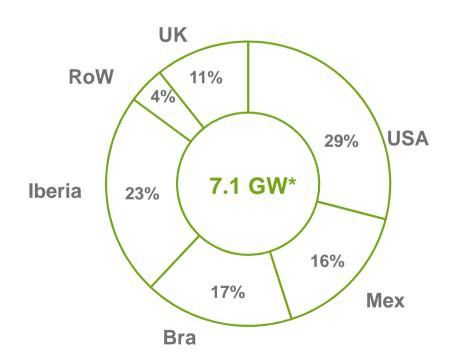


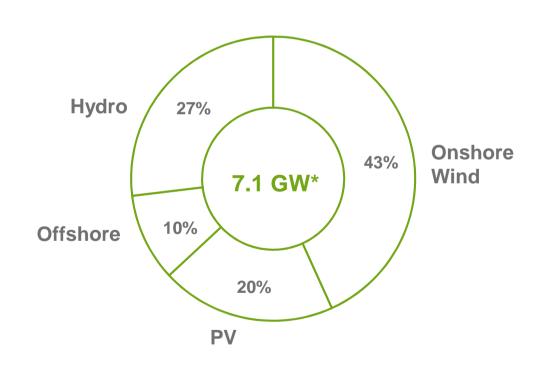
#### Profitable growth

... increasing capacity by 24% to reach a total of 36.2 GW by 2022

2018-2022 Plan Capacity installed (GW) by geography

2018-2022 Plan Capacity installed (GW) by technology

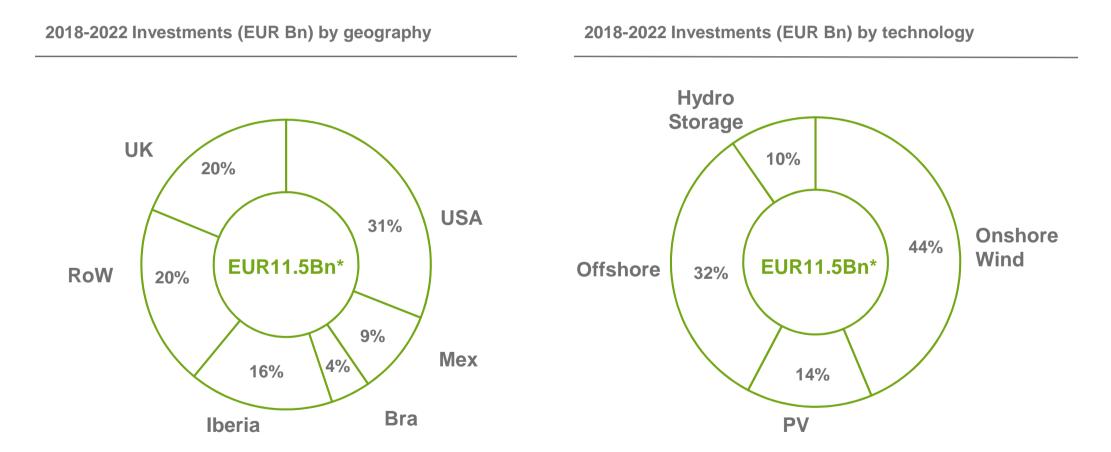




\* Includes Belo Monte, that is consolidated via the equity method



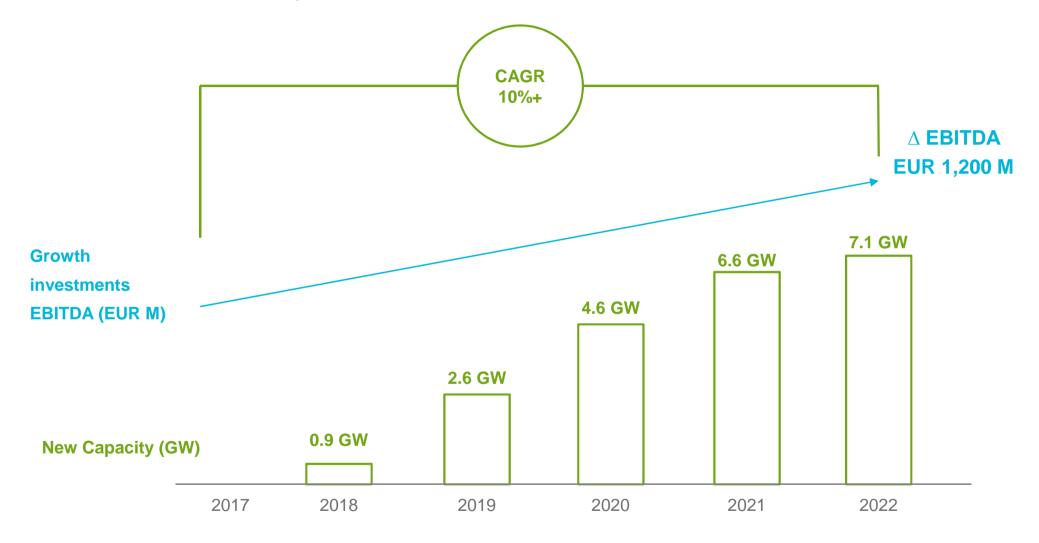
... investing EUR 11.5 Bn during the period, 90% allocated to growth



\* EUR 10.2 Bn growth investment



... to increase EBITDA by EUR 1,200 M in 2022



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## 2018 – 2022 Plan: Operational Excellence







## CAPEX OPTIMISATION



## **GROSS MARGIN IMPROVEMENT**



### **O&M COSTS REDUCTION**

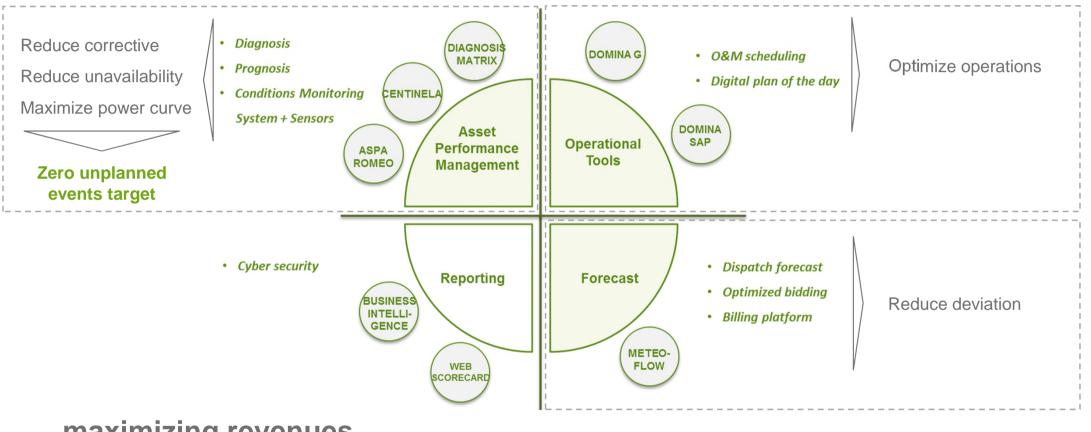


**Operational efficiency** 



#### **Operational excellence**

Asset life cycle management through digitalization...



... maximizing revenues

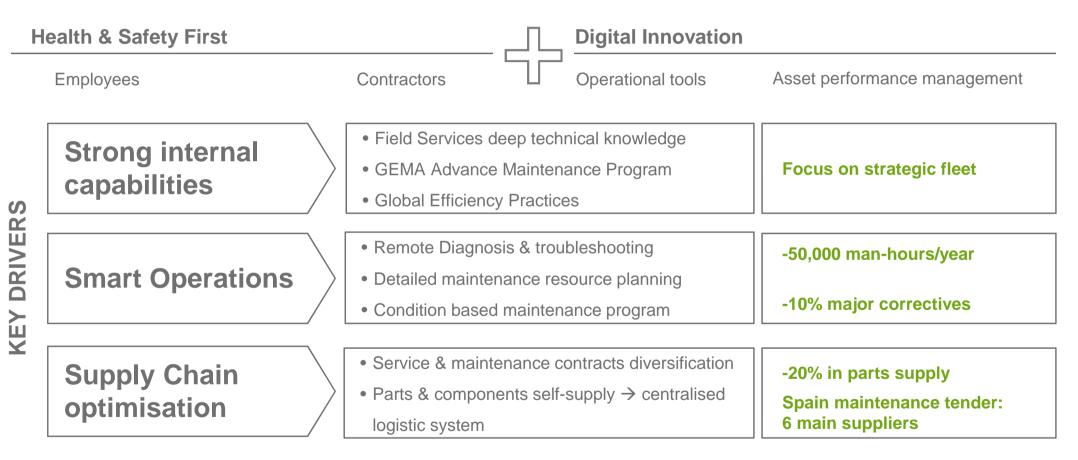
#### Initiatives will allow EBITDA cumulative increase of EUR 130 M during the period



#### **Operational excellence**

Continue being O&M best in class demands...

#### **DELIVERING an ADVANCED O&M MODEL**

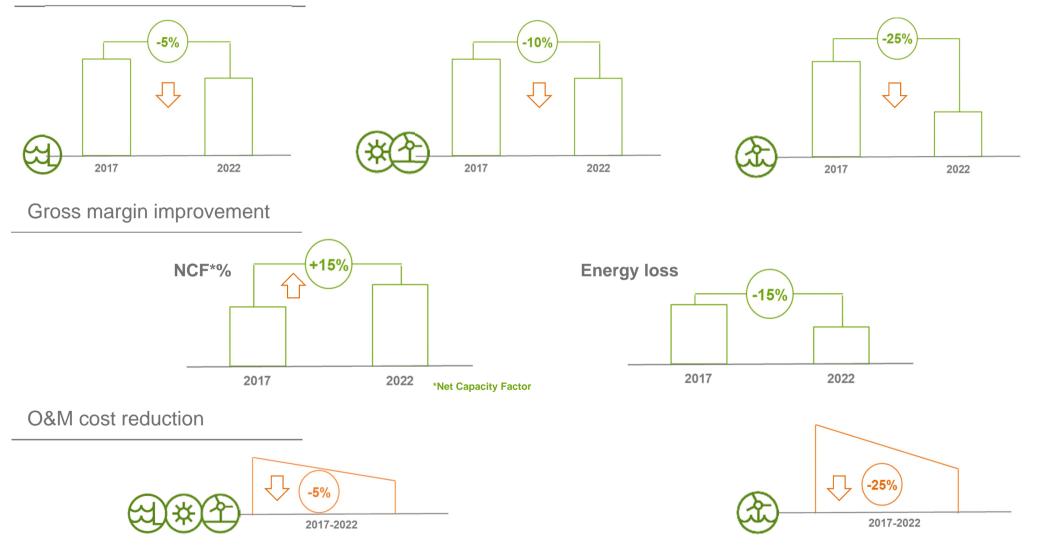


A Global Plan that will allow EUR 70 M of cumulative savings during the period



#### **Operational excellence**

Capex optimization



### EUR 200 M\* of accumulated efficiency gains through digitalization and O&M best practices

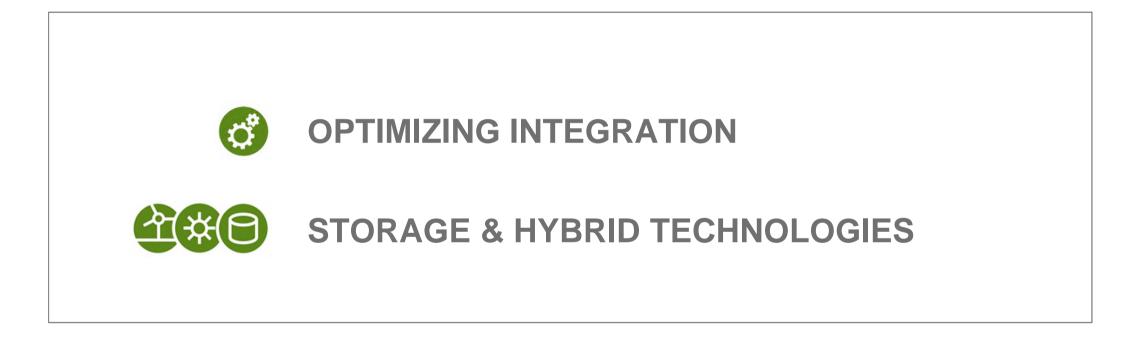
\*~EUR 50 M in 2022



## 2018 – 2022 Plan: Customer at the centre



Service portfolio built-up...



#### ... around market and customer needs





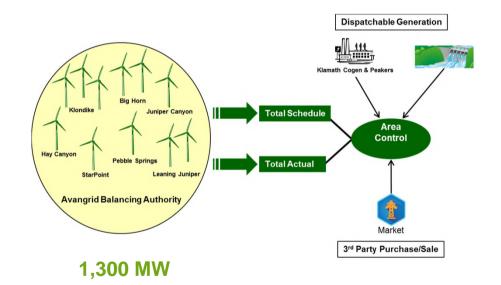
Self Supply. Balancing Authority

#### Long term certainty: time & energy

- Improved Operational Flexibility
- Long term integration cost certainty
- Services to customers, 3rd parties & load serving entities
- 1,300 MW of wind balanced

Backed-up by:

- Owned Combined Cycle Gas
- Slice of third party Hydroelectric Power

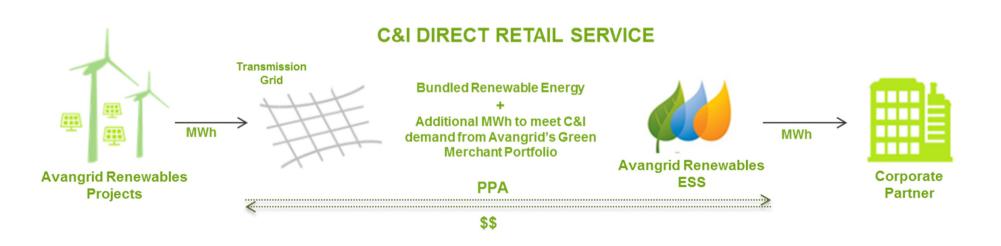




#### **Ancillary Services**

- Provision of synthetic inertia
- Islanding
- Black Start

#### **Energy Services: Customized "GREEN" solutions**





#### Customer at the centre – Reliability of services & Value added products



#### Hydro pumped storage

- Total installed capacity of 4.5 GW
- Cost efficient  $\rightarrow$  1/3 of battery systems' cost
- Flexible system: additional services to the grid
- Regulates excess energy





Cortes la Muela / SPAIN

#### Iberdrola leader with 100,000 MWh storage

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#### Customer at the centre – Reliability of services & Value added products



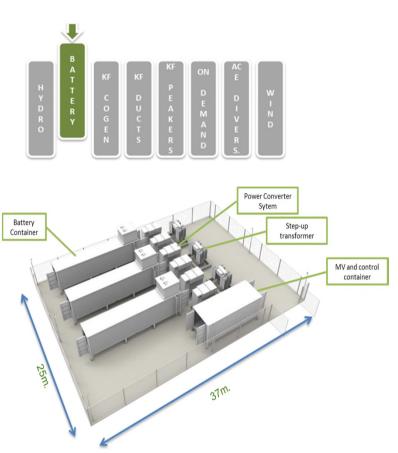
**Battery System within the US Balancing Authority** 

- Lithium-ion energy storage system operating as part of the Balancing Authority in US NW
- Replaces more expensive technologies



#### 10 MW | 2-hour Battery to be implemented:

- Improves the reliability of the electrical grid
- Provides additional services to the system
- Reduces risk of non-compliance in the BA



Battery Energy Storage System design in Klamath / USA





#### Hybrid products

Firmed shaped products designed to meet the customers' needs

#### Storage to optimize renewable production

- Moves solar generation to higher priced hours
- Opportunities in certain areas of the US  $\rightarrow$  over 200 MW



#### Incremental cost of adding batteries to a standard PV plant more than covered by PPA price

#### Combined product: wind + PV

Firmed shaped product in growing demand
800 MW favourable returns



PV plants	MW PV	Batt size (MW/MWh)
PV plant 1	44	11/44
PV plant 2	120	30/120
PV plant 3	46	5/20

Wind plants	MW Wind	MW PV
Wind farm 1	304	20
Wind farm 2	63	32
Wind farm 3	200	101
Wind farm 4	189	44
Wind farm 5	150	75



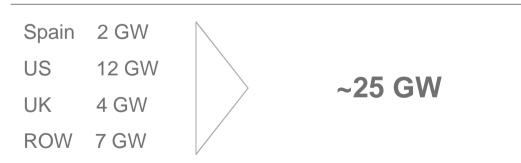
# 2018 – 2022 Plan: Capital Optimisation

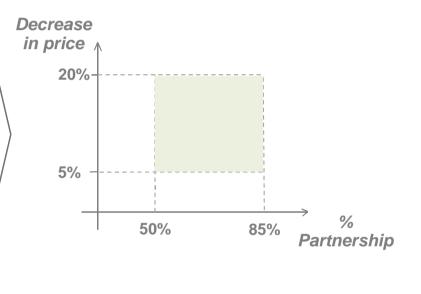


#### + Experience in partnering today

Country	Capacity (MW)	% partnership
Spain	1,800	5% - 50%
US	800	50%
UK	400	50%
ROW	700	25% - 50%

#### + Strong and diversified pipeline





## Partnering in selected projects increases competitiveness through access to lower cost of capital



# 2018-2022 Plan: Flagship projects



### Flagship projects

Alto Tâmega hydro power and storage complex

#### Largest hydroelectric project in the history of Portugal

- The project will give Iberdrola a 15% market share in Portugal
- Construction of 3 reservoirs: Gouvâes (880 MW), Daivôes (118 MW) and Alto Tâmega (160 MW).

Location: North Portugal Installed capacity: 1,158 MW Storage capacity: 20 GWh Investment: EUR 1,500 M





Pennstock CH Gouvâes, ALTO TÁMEGA / Portugal

### Flagship projects

East Anglia ONE offshore windfarm

#### First Round-3 Project awarded with a CfD

- Engineering work and supplier activities ongoing
- Construction on going
- First output expected during 2019

Location: North Sea, UK Capacity: 714 MW - 102 x 7 MW Siemens WTG Investment: GBP 2.5 Bn





Mega Caravan Load Out / UAE



### Flagship projects

Santiago Solar PV plant

#### PV facility in Mexico coming on line in 2018

Technology: monocristaline module, single axis tracking

Location: San Luis Potosí, MEXICO Extension: 750 hectares Capacity: 232 MW





Solar plant and substation at Santiago PV / Mexico





## 2018 – 2022 Plan: Conclusions



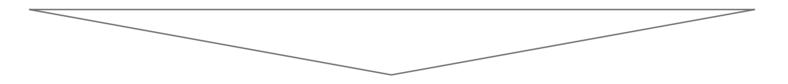


Leading core markets and continue developing storage capacity



Leveraging on internal capabilities to achieve attractive returns

Developing offshore business centered in 3 high quality hubs



Growth investments of EUR 10.2 Bn to install 7.1 GW\* and 20 GWh storage, generating an additional EBITDA of EUR 1.2 Bn by 2022

EUR 50 M of efficiencies contribution in 2022

#### Reaching a total EBITDA of EUR 3.1 – 3.3 Bn at the end of the period

\* Includes Belo Monte, that is consolidated via the equity method

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