

Iberdrola, "utility of the future":

Building the foundations for growth in the next decade

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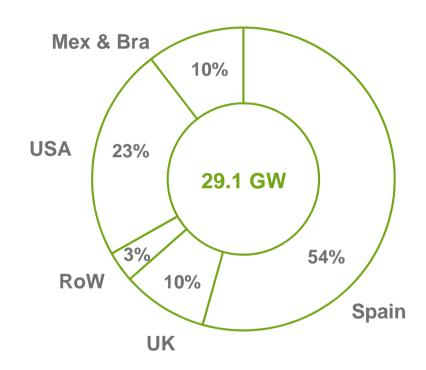
Overall Strategy

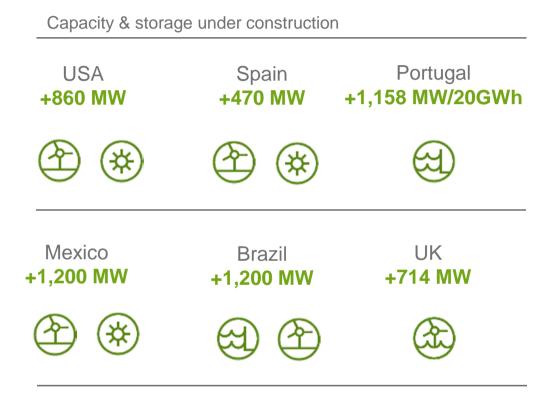


Current Situation Overview

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



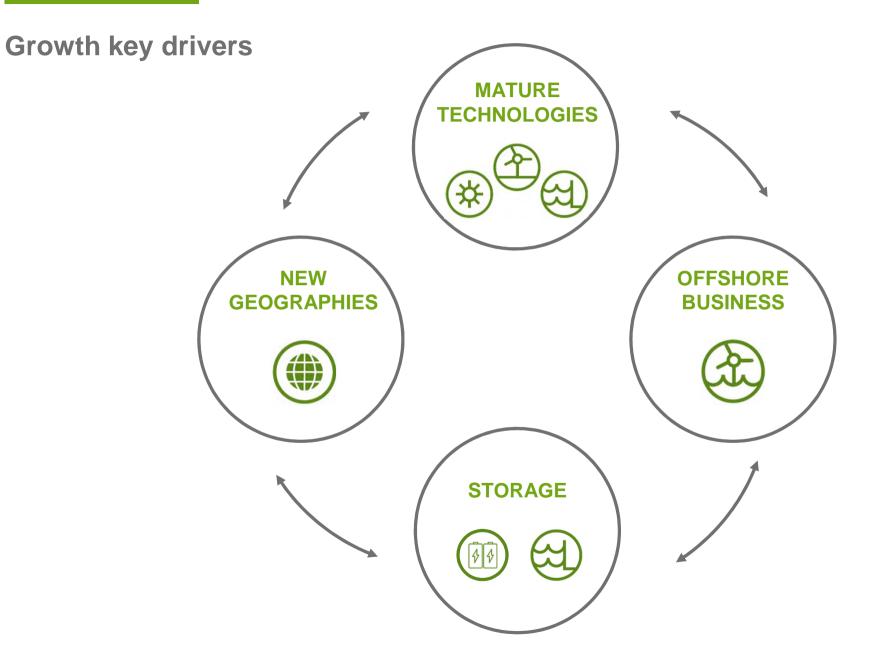
Profitable growth	Significant growth in core markets and expanding Iberdrola's capabilities across further geographies
Operational excellence	Best in class through Iberdrola's O&M model Asset life cycle management through digitalization
Customer at the centre	State of the art products to meet customers'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

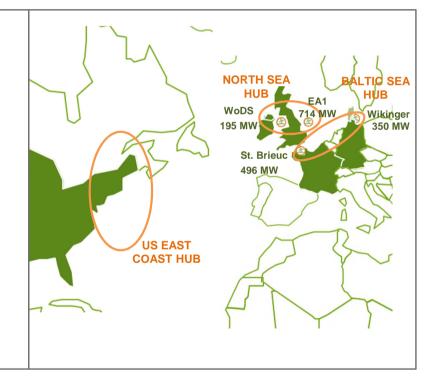
844 MW of wind and solar PV and 1,158 MW of hydro

& 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

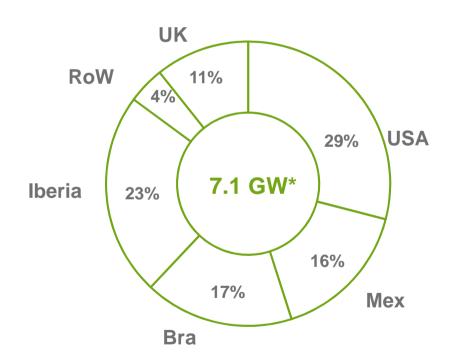


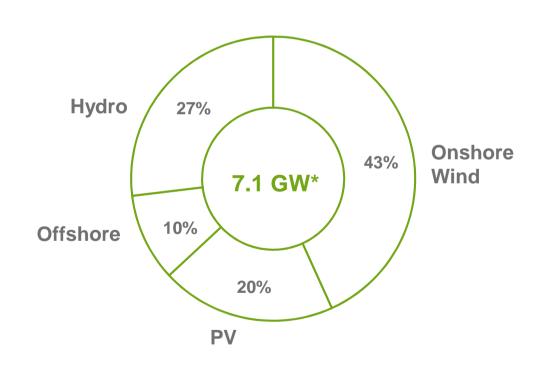
Profitable growth

... 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

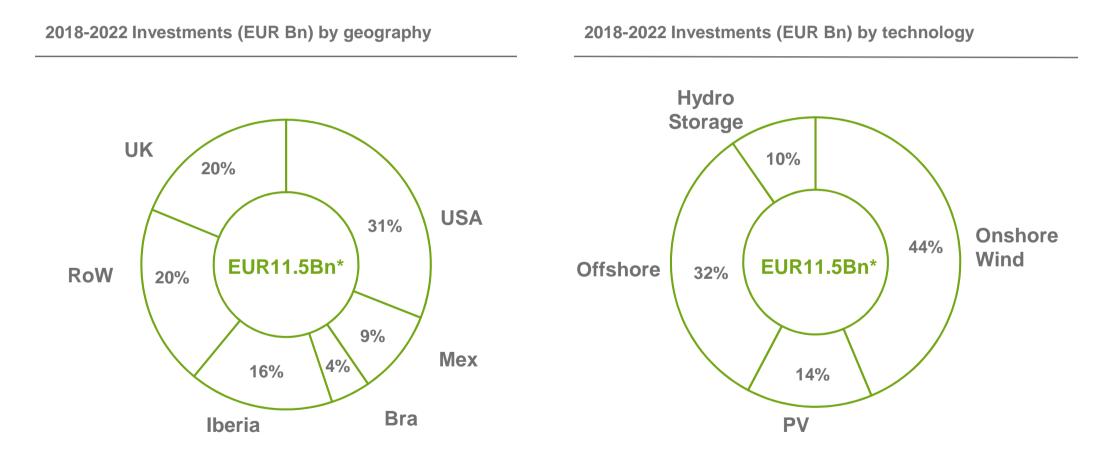




* Includes Belo Monte, that is consolidated via the equity method



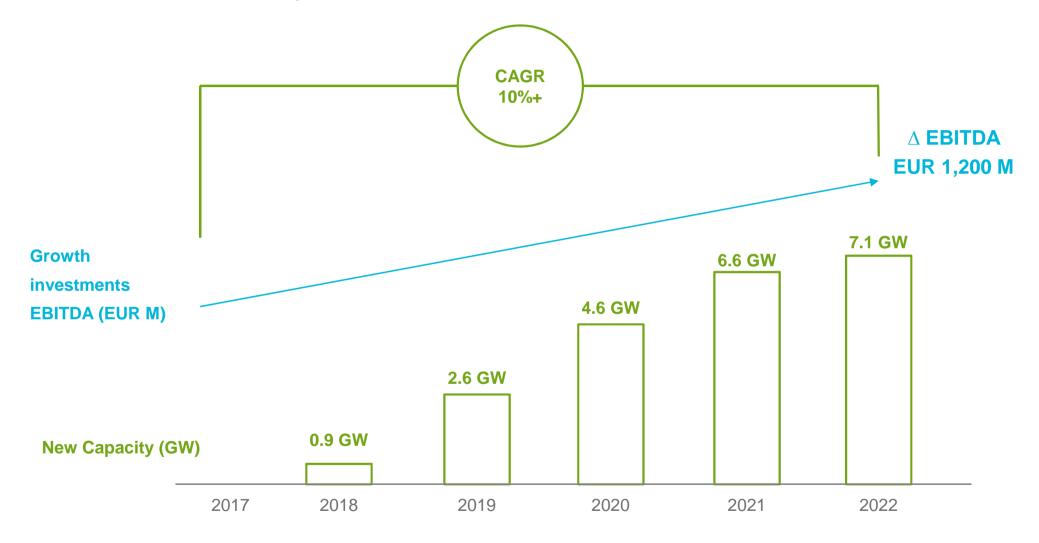
... investing EUR 11.5 Bn during the period, 90% allocated to growth



* 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

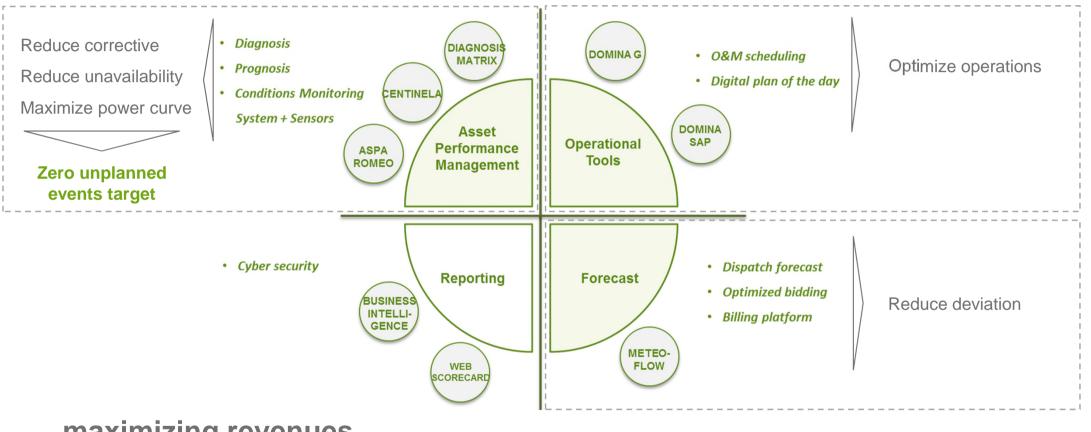


Operational efficiency



Operational excellence

Asset life cycle management through digitalization...



... maximizing revenues

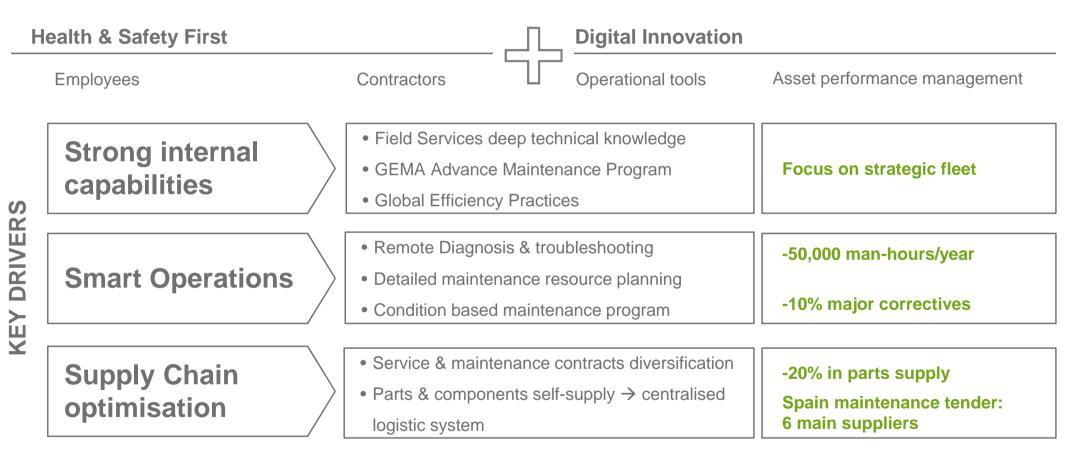
Initiatives will allow EBITDA cumulative increase of EUR 130 M during the period



Operational excellence

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

DELIVERING an ADVANCED O&M MODEL

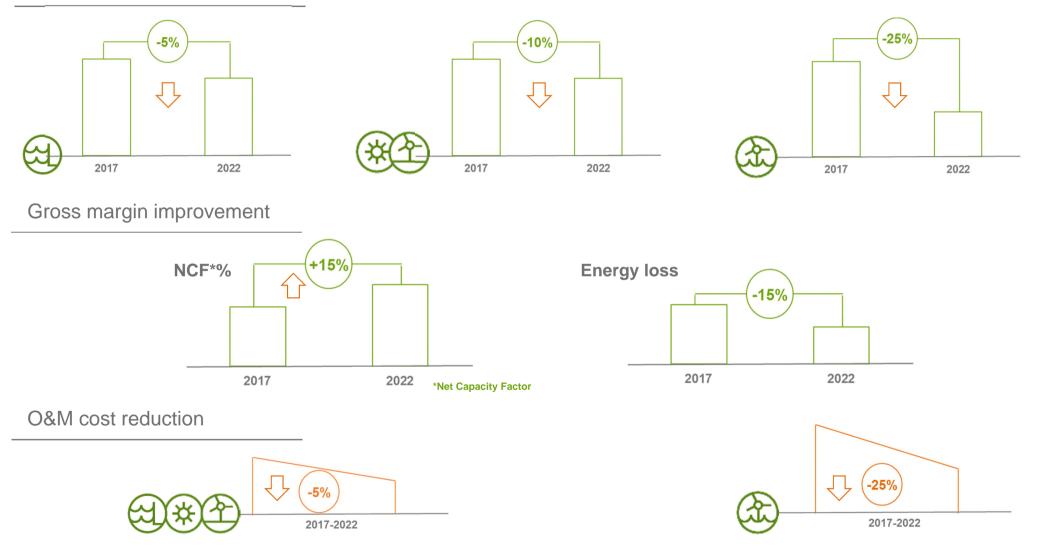


A Global Plan that will allow EUR 70 M of cumulative savings during the period



Operational excellence

Capex optimization



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

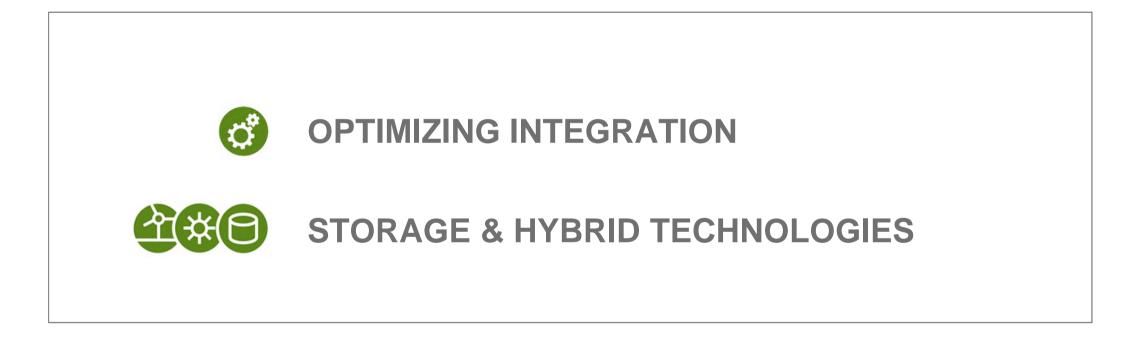
*~EUR 50 M in 2022



2018 – 2022 Plan: Customer at the centre



Service portfolio built-up...



... around market and customer needs





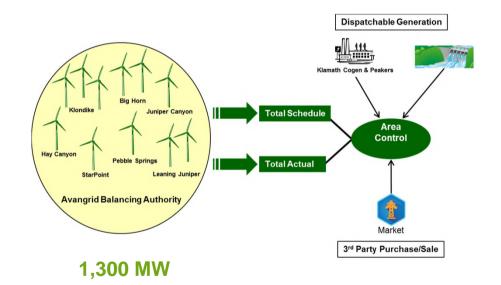
Self Supply. Balancing Authority

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

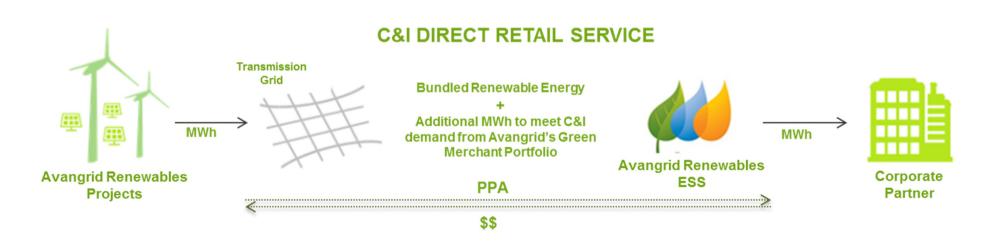




Ancillary Services

- 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



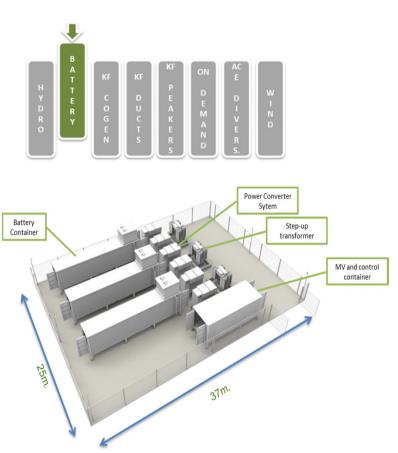
Battery System within the US Balancing Authority

- 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



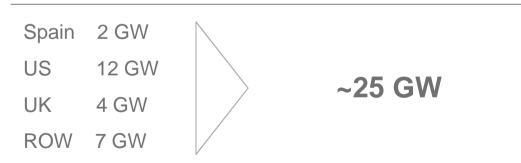
2018 – 2022 Plan: Capital Optimisation

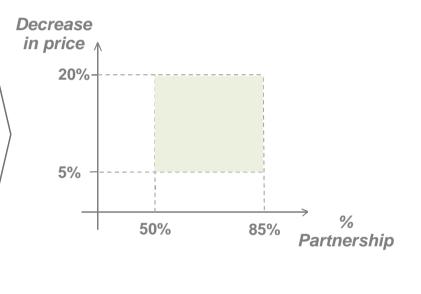


+ Experience in partnering today

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



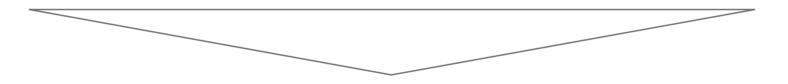


Leading core markets and continue developing storage capacity



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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