

Business positioning & key actions

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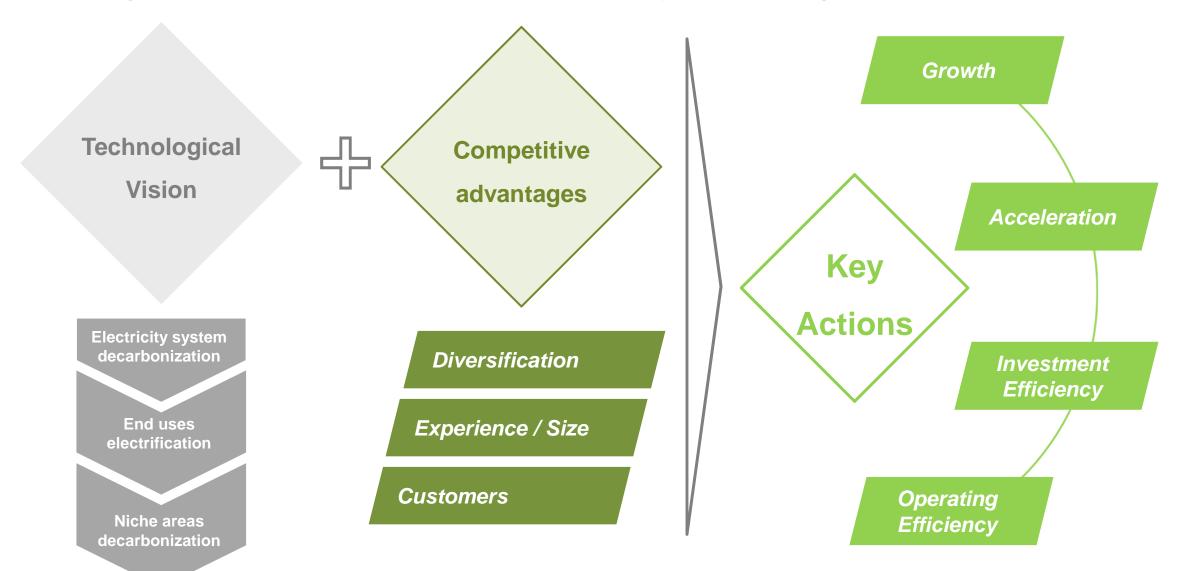
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Positioning ahead of time and competitiveness as key to optimize growth



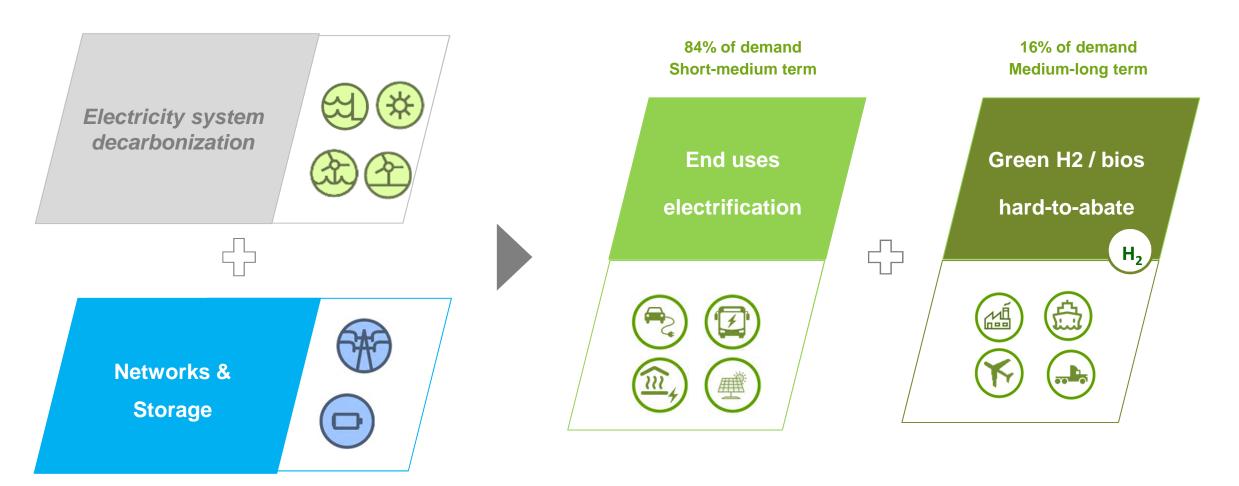


Technological Vision

Technological Vision



The evolution of technology will be driven by the decarbonization challenge...



... resulting in more renewables, more networks & efficient storage and more smart solutions (including green H2)

Technological Vision: competitiveness in the electricity system



Renewables are already competitive and the most cost-efficient solution

2020-2030 Global Projection			GW capacity 2020-30	LCOE %var. 2020-30	
*	Solar Photovoltaic		4 x	- 40%	
P	Onshore wind		3 x	- 30%	
	Offshore wind		7 x	- 50%	

^{*}LCOE reduction as a combination of CAPEX decrease, load factor increase, O&M and financial costs reduction...

Electricity system

- 65% Renewables* participation by 2030
- 85% Renewables* participation by 2050
- Demand side response
- Storage

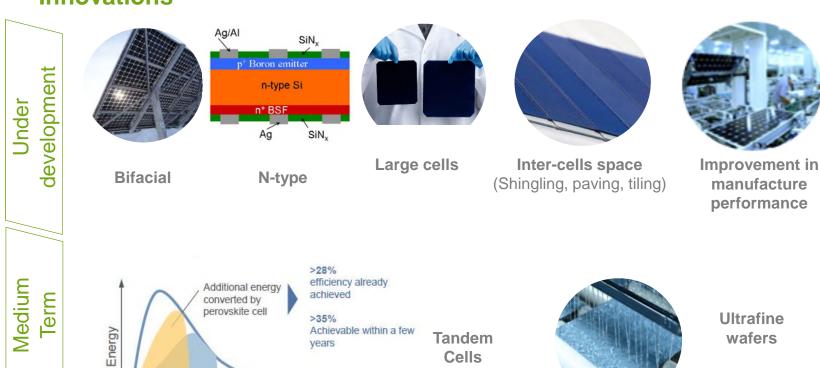
Massive growth expected to achieve the electricity system decarbonization

^{*} European Commission estimates (2030 Impact Assessment and Long term scenarios)

Technological Vision: PV evolution by 2030



Innovations



Cells

(Perovskitas)

Efficiency (%) 25% 25 20 2020 2030 **Installed Capacity GW** 4 x **CAGR: 16%** ~3,120 ~720

Improvement drivers

- Efficiency increase in modules
- Reduction of material needs
- Performance increase in production lines

Wavelength

Solar output 2030: 4,800 TWh 16% of global production

2030e

Source: Company data and elaborated from Sustainable Development Scenario. World Energy Outlook 2020, International Energy Agency (IEA)

2020e

Technological Vision: onshore wind evolution by 2030



Innovations



Larger turbines, rotors and towers



Hybrid towers

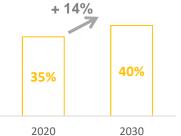


Segmented blades and towers

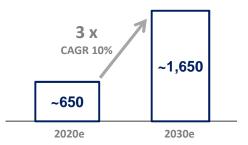


Modular platforms

Load factor %



Installed capacity GW



Improvement drivers

- Larger size (capacity factor)
- Weight reduction (new materials)
- Modular components
- Digitization



Control systems and sensors



Innovations in construction and operation



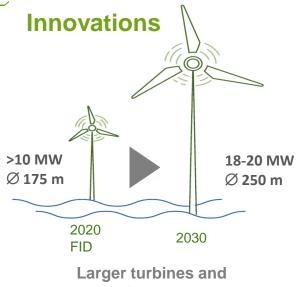
On site construction and manufacture

Onshore output 2030: 5,100 TWh 17% of global production

Source: Company data and elaborated from Sustainable Development Scenario. World Energy Outlook 2020, International Energy Agency (IEA)

Technological Vision: offshore wind evolution by 2030





towers

FID- Final investment decision

Improvement drivers

- Economies of scale: larger size of turbines and windfarms (capex)
- Standardization and modularity
- Innovations in construction and operation
- Floating offshore: new markets and areas to develop



Windfarm Hubs



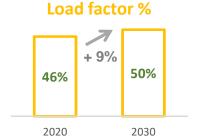
Digitization-Predictive maintenance



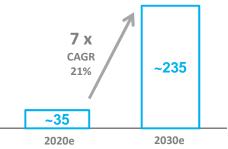
Construction innovations



Controls, sensors and robots



Installed capacity GW

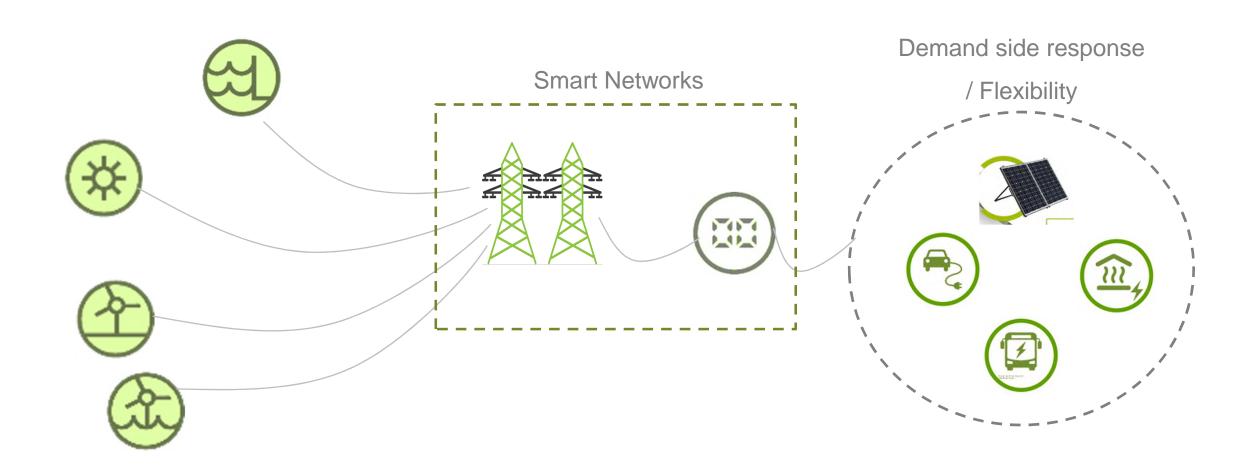


Offshore output 2030: 850 TWh 3% of global production

Source: Company data and elaborated from Sustainable Development Scenario. World Energy Outlook 2020, International Energy Agency (IEA)



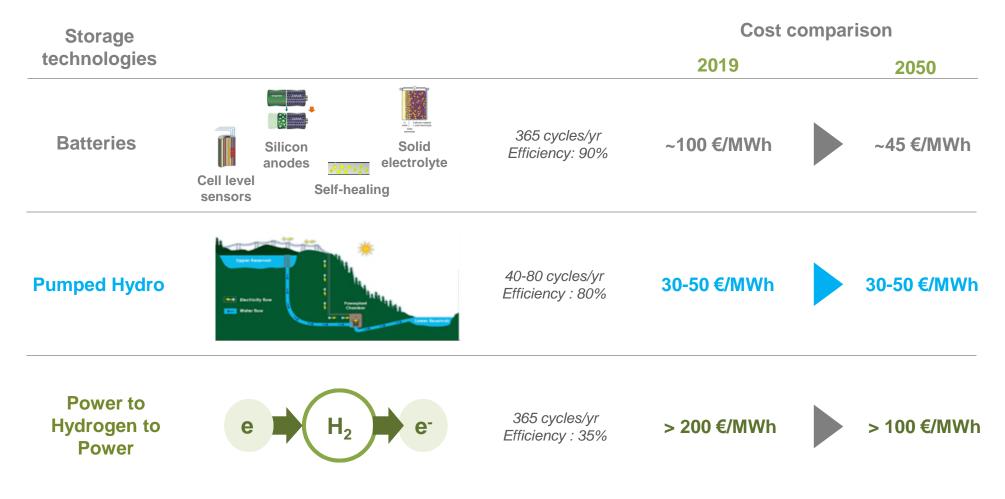
Smart Networks are the essential element for integrating the different needs of the system



Technological Vision: storage in the electricity system



More storage is needed to integrate renewables...



Source: Company data

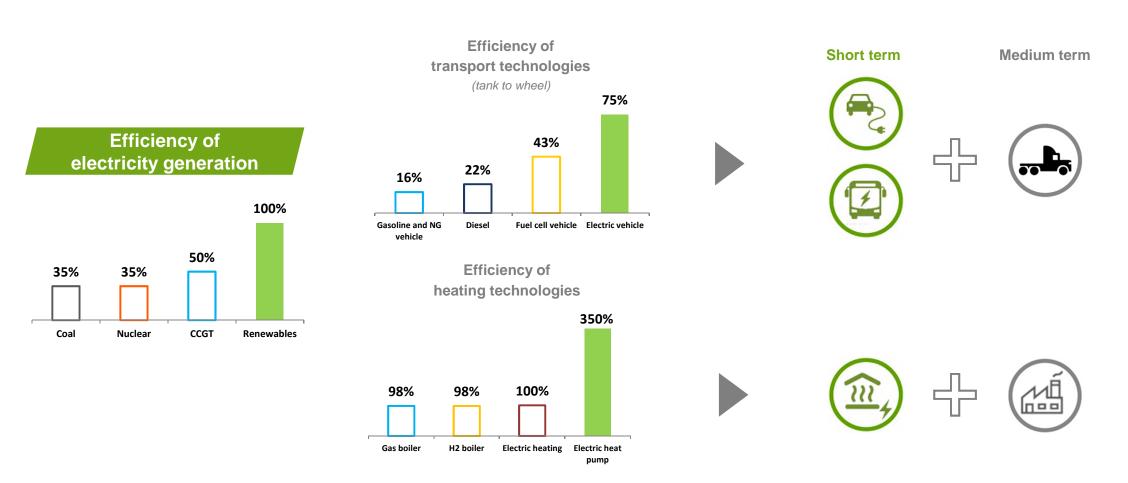
... being **energy efficiency** the key for competitiveness

Technological Vision: end uses electrification



End uses decarbonization driven by the efficiency:

RES electricity + electric vehicle + electric heat pump as the most cost-effective solutions



Potential electrification in long-haul transport and industries

Technological Vision: niche areas decarbonization



Green H2 and biofuels as decarbonization alternatives for niche areas, where electrification is not possible or competitive

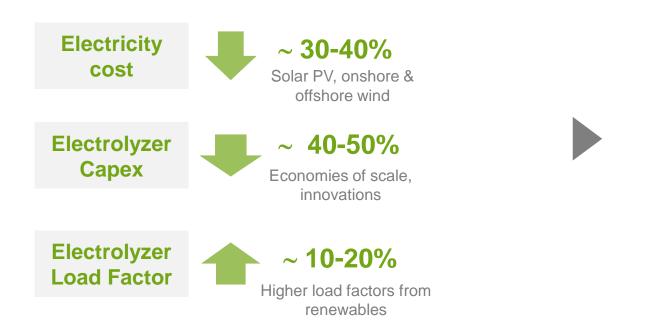




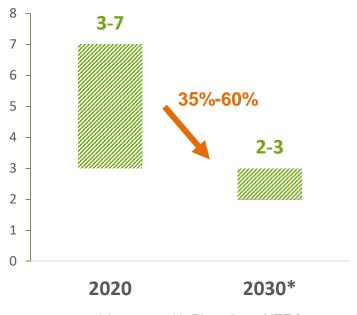








Cost range of Green H2 Production, €/kg



* In range with Bloomberg NEF forecast

H2 is a feedstock in many industrial processes: **decarbonizing current H2 market** should be the first priority of green H2 and will help drive costs down for the niche applications

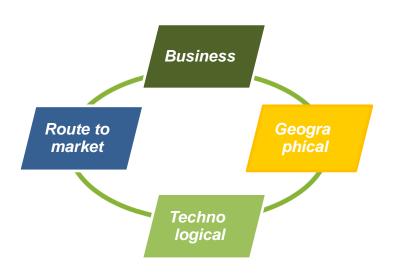


Competitive advantages

Diversification

Experience / Size

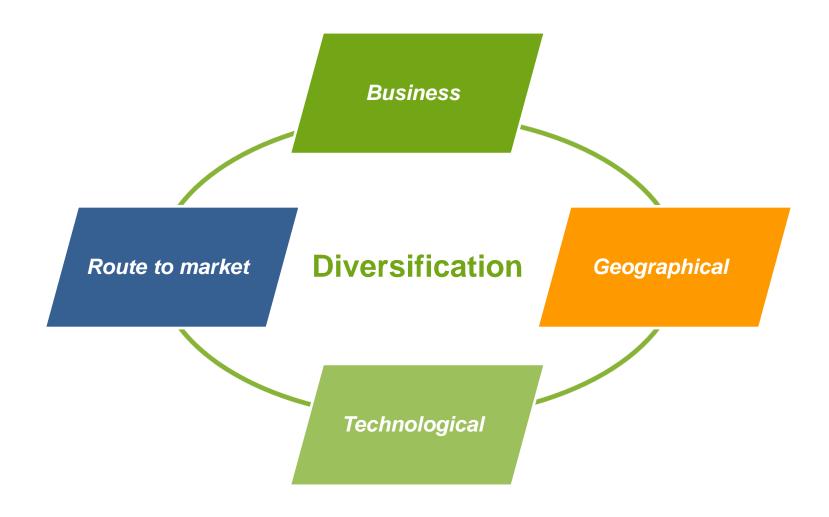
Customers





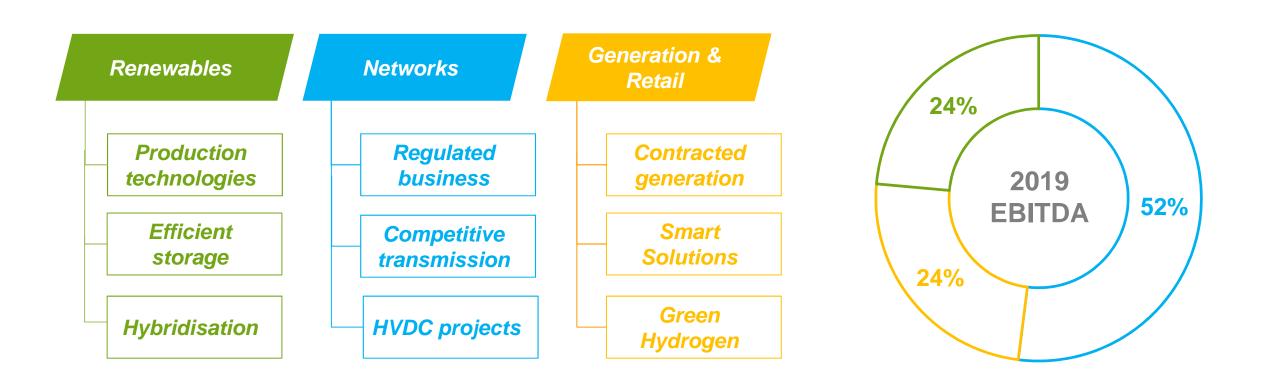


Diversification in all scopes to enable more stable results





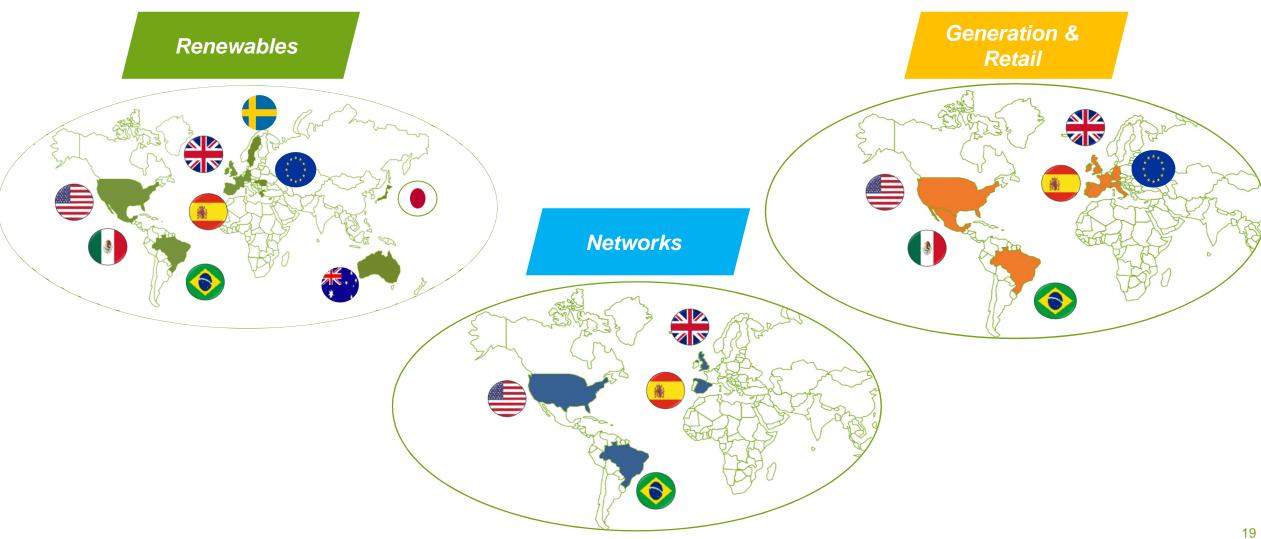
Strong and diversified business model...



... continuously adapting units and products to compete in different scenarios and new needs



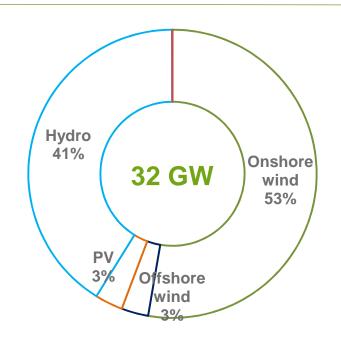
Our global expansion balances our position both by country and by business





Pioneers in renewables and added-value services...

Renewable capacity mix by Technology 2019



Services mix 2019



* Heating and cooling

... enabling an integrated & sustainable model to our customers



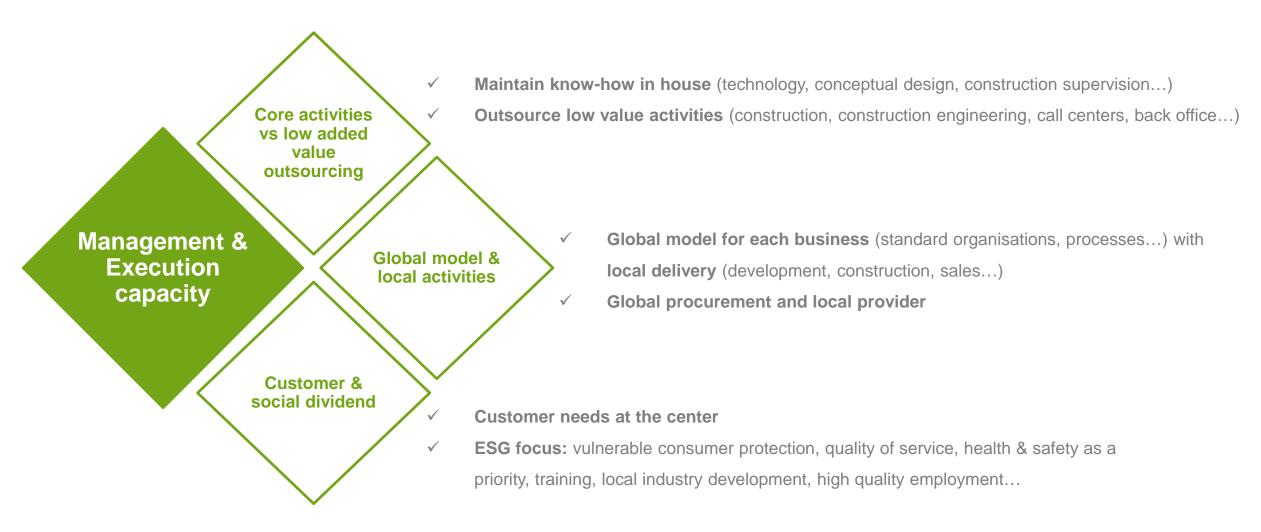
Multiple approach to optimize position and results

	瀟				6	*
PPA		√√	///	//	✓	✓
Customer base	///	///	✓	//	√	√ √
Auctions	√	√√	//	√	√ √✓	√√√
Other-hybrids	✓	✓		√		

^{*} IEI includes France, Germany, Italy, Portugal, Ireland, Greece, Australia and others



Track record of organic growth based on preserving know-how, customer & ESG focus...



... and an effective combination of global model and local capabilities



Maintaining control of key activities to secure increasing growth



Development



Engineering & procurement



Construction



O&M



ESG



Investment prioritization Resource analysis Permitting & lands Development and prioritization of pipeline

Technology Watch Design & equipment standardization

Design engineering Global procurement Construction supervision Permitting

Regional O&M Global procedures Health & safety Training Local industry High quality employment

Resource data

Environmental studies

Co-development

Land leasing and acquisition management

Construction support engineering

Local providers

Packages outsource (no EPCs)

BoP construction. substation and lines

Installation and commissioning of main equipment

Independent Service **Providers**

Low-value activities outsource



Ensuring consistency and control of operations

Planning	Engineering & procurement	Construction	©-© ∟⊚ O&M	ESG ESG
Central planning Investment prioritization	Technology Design & equipment standardization Design engineering Global procurement	Construction supervision Permitting	Regional O&M Global procedures	Quality of service Health & safety Training Local industry High quality employment
	Detail engineering Local providers	Packages outsource (no EPCs)	Low-value activities outsource	



Taking care of the complete experience of the customer





Products



Channels



Operations



ESG



Portfolio optimization Mitigation of price risk

Product design

Tailored solutions

Data Analytics

Campaigns

Omni-channel approach

Sales & Customer service

Commercial alliances

Customer experience

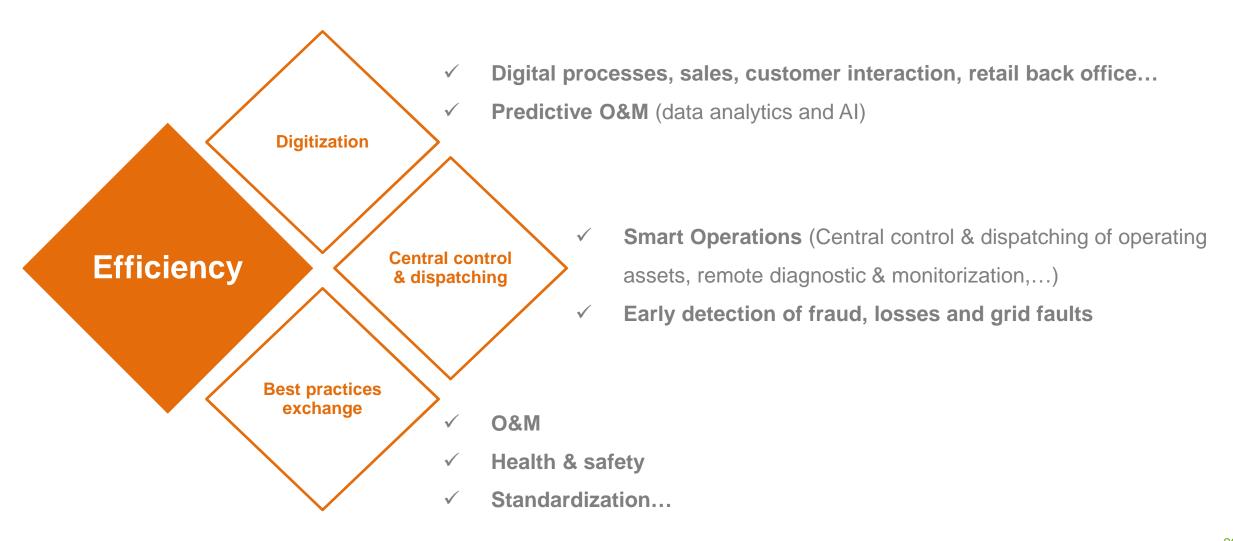
Regional operation Global procedures Vulnerable customers
Payments plans
Social collaborations:

- AECC and CRUK*
- Aid to Paralympic Objective Sport
- Universe of Women and Female Sports

Sales & Customer Service Call Center Back Office
Debt recovery

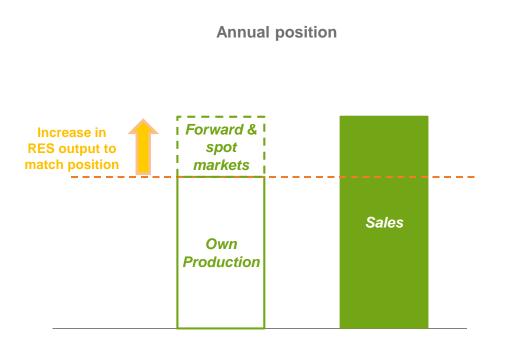
^{*} Asociación Española Contra el Cáncer and Cancer Researh UK

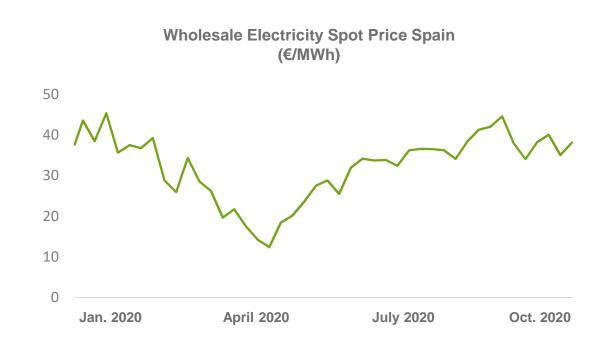
Best in class efficiency based on digitization and exchange of global best practices





Customer base as a **natural hedge** of our own generation, **mitigating the risk** from price fluctuations





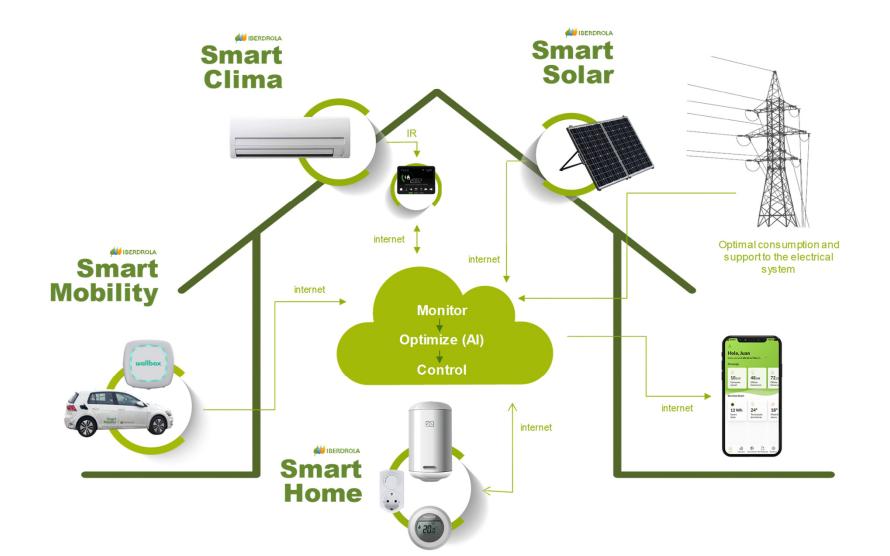
Growth in renewable energy to **balance** our short position in the markets

Stable prices for **customers** willing to have a more predictable view of prices

Customers: residential view

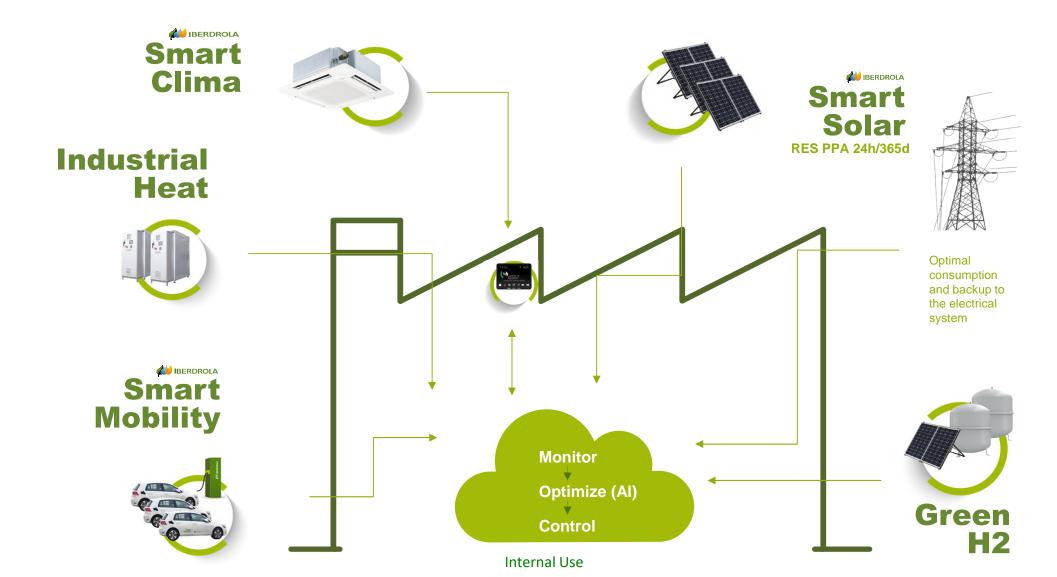
Electrification of residential demand implies a huge opportunity in terms of

increasing consumption and larger product variety



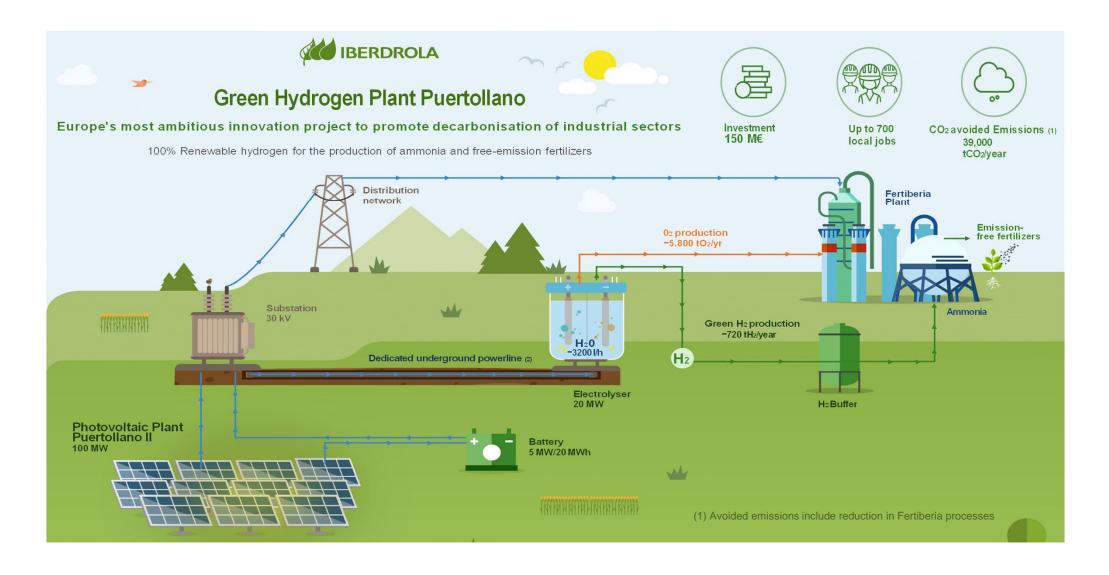


Integrated model to fulfill 100% of our customers' needs



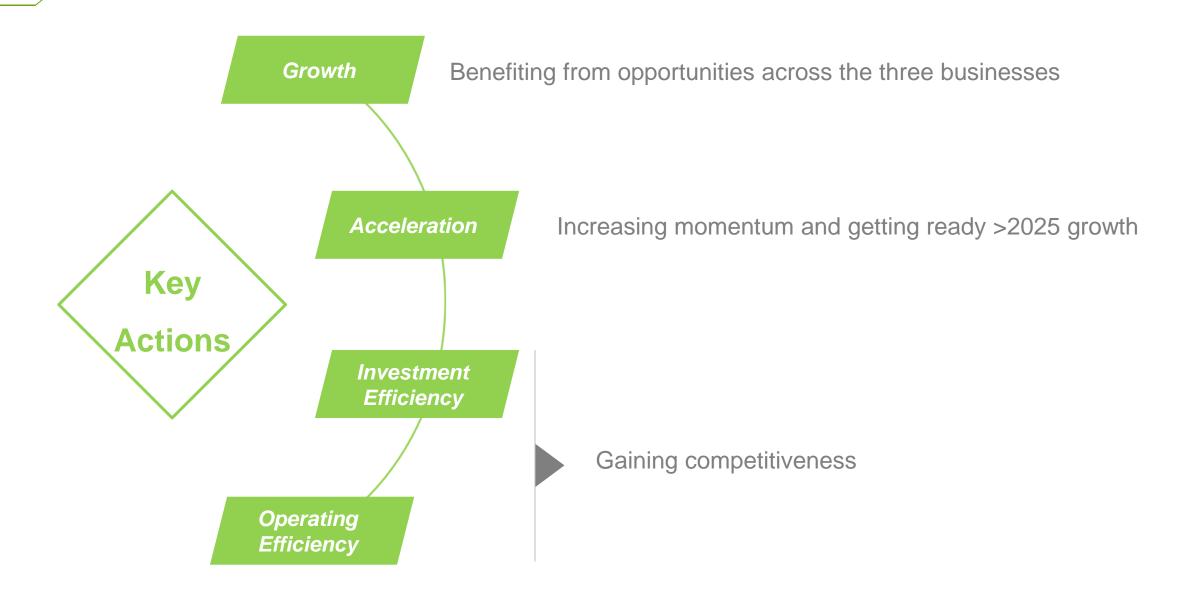


Opportunities derived from decarbonizing the use of hydrogen as industry feedstock



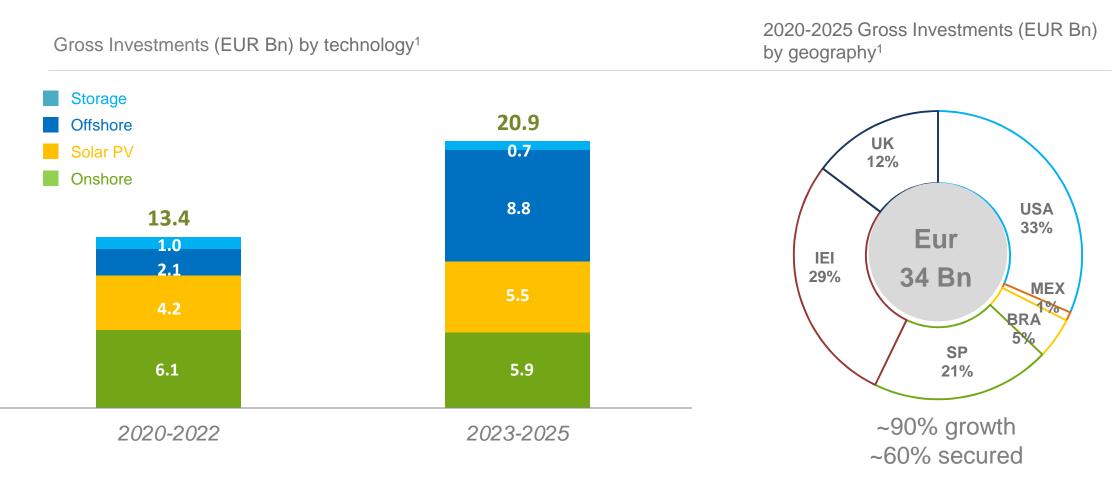


Key Actions





Investments of EUR 34 Bn during the period...



... increasing diversification, especially with growth in offshore and IEI

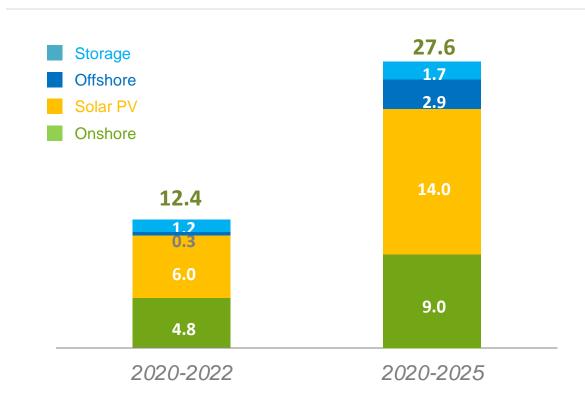
1/ Includes Iberdrola estimates of PNM resources

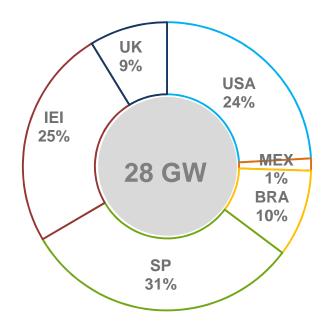


Capacity growth by 28 GW, with a larger contribution from PV and onshore...

New Installed capacity (GW) by technology¹

2020-2025 Installed capacity (GW) by geography¹







... to reach a total of ~60 GW by 2025

Capacity mix by Technology 2025¹

Hydro 24%

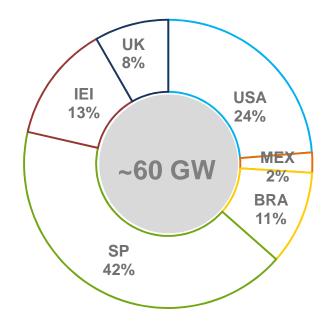
Conshore 44%

Onshore 44%

Offshore

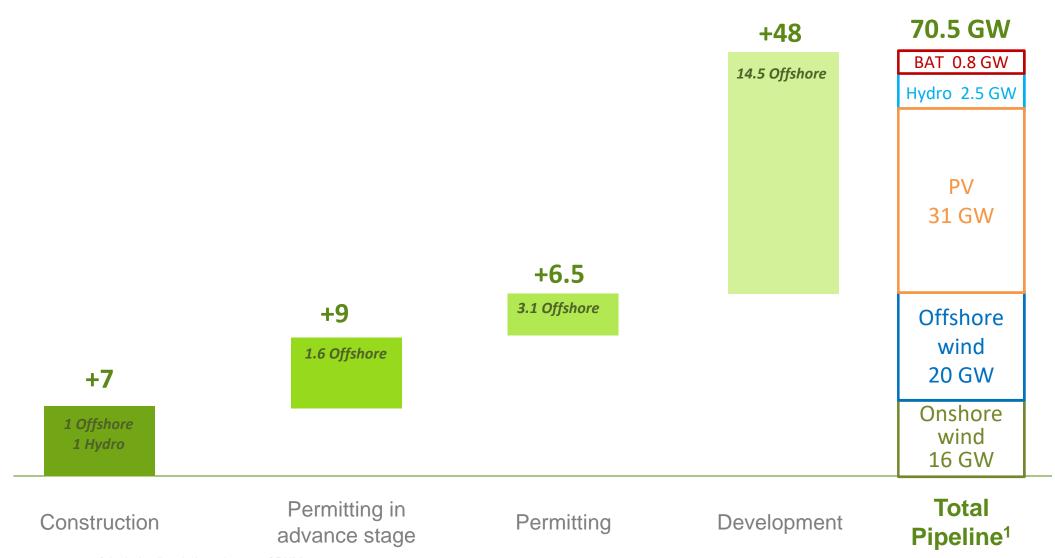
6%

Capacity mix by country 2025¹





Over 70 GW pipeline, with an annual increase over 10 GW/year





(GW)	Onshore	Offshore	Solar PVdc	Battery	Hydro	TOTAL
US ¹	4.5	7.5	10.8			22.9
UK	2.4	3.1	0.8	0.8		7.0
Brazil	2.5		2.7			5.2
Mexico	0.9		4.0			5.0
Spain	2.8		7.6	0.02	1.3	11.7
International	3.2	9.6	4.7	0.01	1.2	18.7
Germany		0.8				0.8
Australia	1.5		1.0			2.5
France	0.7	0.5	0.22			1.4
Greece	0.3		0.5		0.01	0.8
Italy	0.1		1.0			1.1
Portugal	0.3		1.2	0.01	1.2	2.6
Japan		3.3				3.3
Sweden		5.0				5.0
Others	0.3		0.8			1.1
TOTAL	16.3	20.2	30.7 🔅	0.8	2.5	70.5

Renewables: Iberdrola Energía Internacional



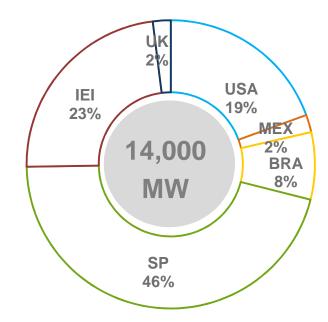
Increase of almost 7 GW by 2025





New Installed Capacity¹ 2020-2025





6,000 MW secured2,700 MW already under constructionMain projects









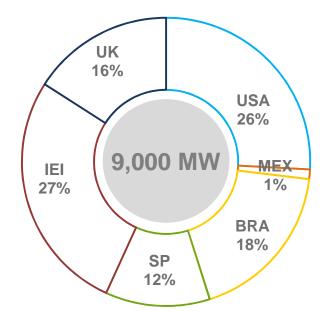


Algarve Setubal Montalto di Castro



New Installed Capacity¹ 2020-2025





4,800 MW secured2,200 MW already under constructionMain projects



Puylobo ERPASA Martín de la Jara



Pier Santiago



Beinn and Tuirc 3 Halsary



Chafariz Oitis



La Joya I-II Midland Golden Hills

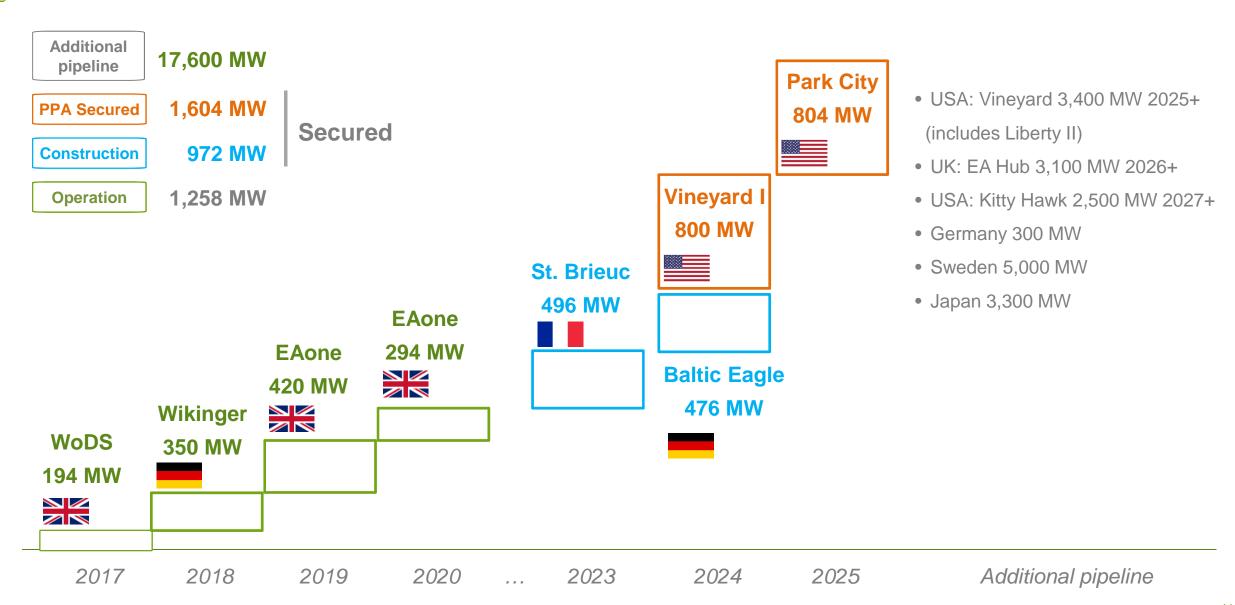


Mikronoros Rokani Askio II-III

Growth

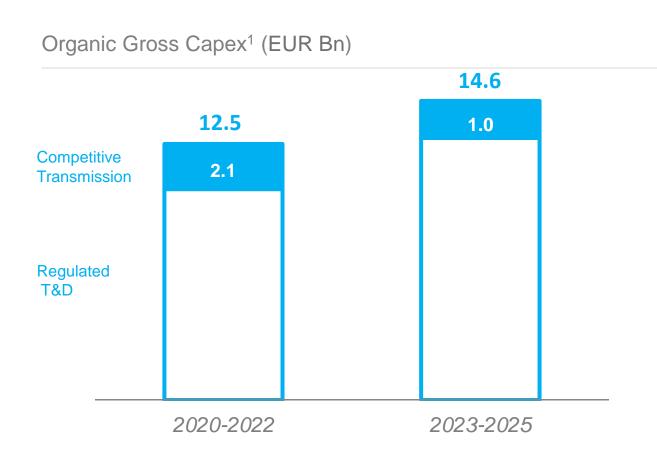
Renewables: Offshore wind



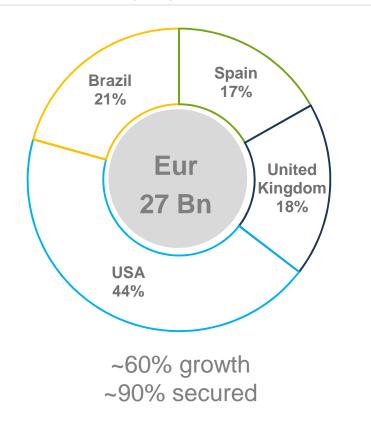




EUR 27 Bn investments in 2020-25, increasing along time with decarbonization needs

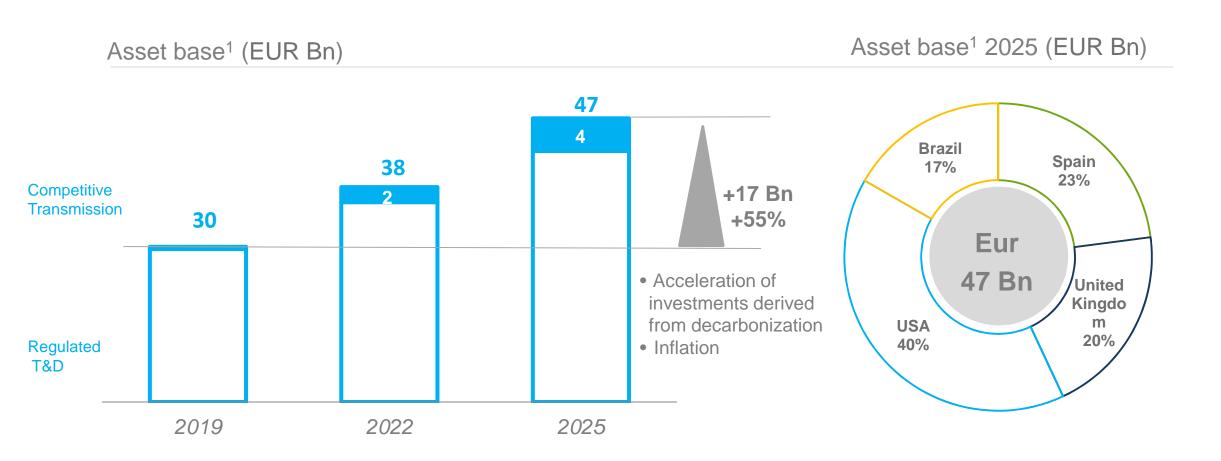


2020-2025 Organic Gross Investments (EUR Bn) by geography¹



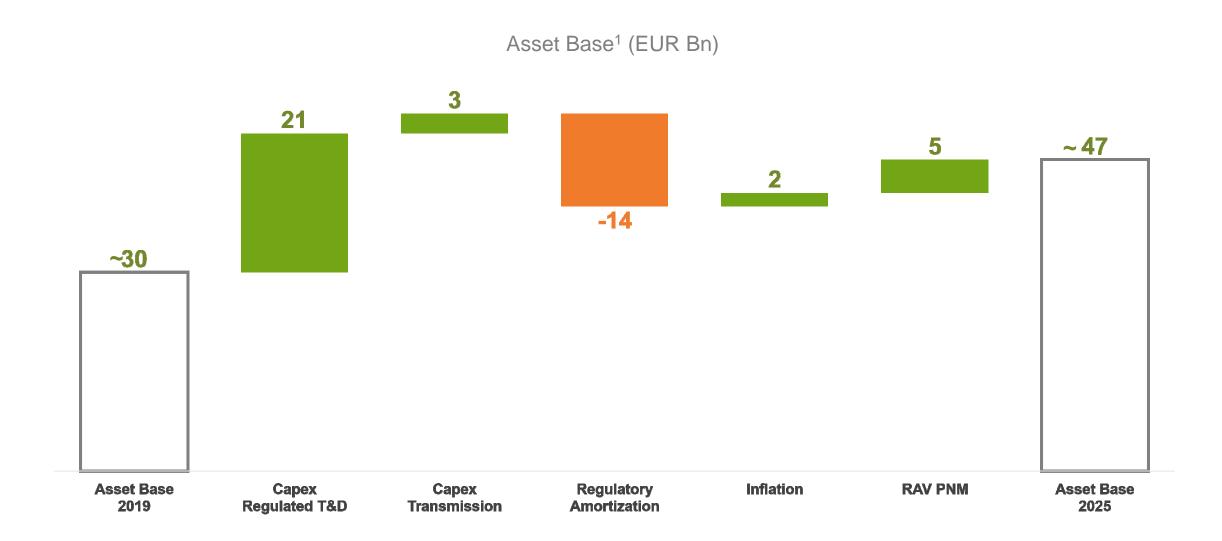


Asset base grows in all countries close to EUR 47 Bn in 2025 (+55%)



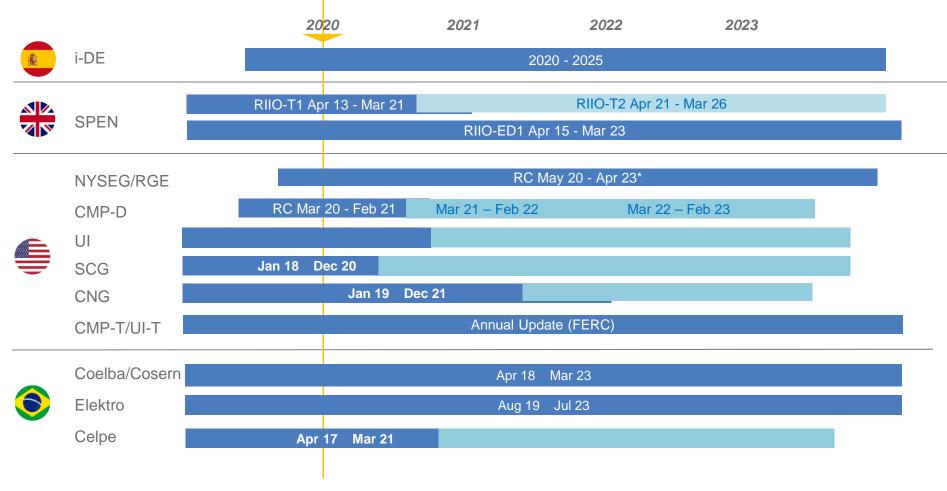
^{1/} Asset base* includes regulated T&D and competitive transmission lberdrola estimates of PNM Resources transaction investment







Stable and geographically diversified returns approved through regulatory frameworks, with ~80% secured to 2022



^{*} Pending final PSC Order



Multiple growth opportunities up to 2025 and beyond in areas with geographic presence

		CAPEX Secured	CAPEX Opportunities
	NECEC	USD 1 Bn	
	Incumbent area		USD 3.3 Bn
	Non-incumbent area		USD 2.5 Bn
	Offshore transmission*		USD 5.3 Bn
	*Subject to offshore transmission and generation decoupling		
		CAPEX Secured	CAPEX Opportunities
	Current Portfolio (2017-2019 auctions)	BRL 7.6 Bn	
	ANEEL auctions (2021-2025)		BRL 44.6 Bn

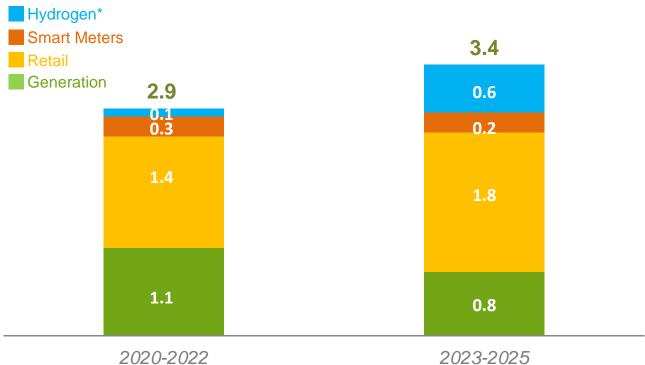
Analyzing additional opportunities in new geographies where the Group is present



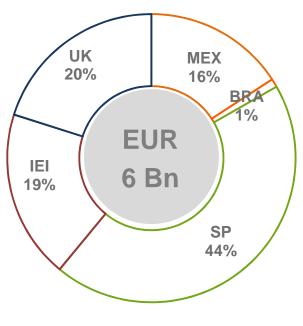
Investing over EUR 6 Bn during the period



Gross Investments (EUR M)



2020-2025 Gross Investments (EUR Bn) by geography



~60% growth ~50% secured

^{*} Total gross investments, not including potential grants from European Funds



Strong growth on **Smart Solutions** while expanding in **new markets**

2025

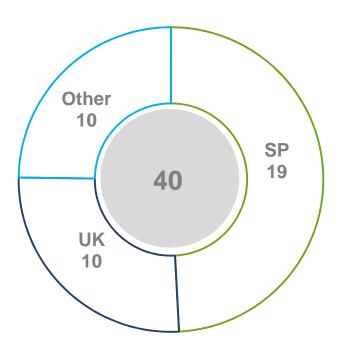


2019

25 40 +60% vs 2019

2022

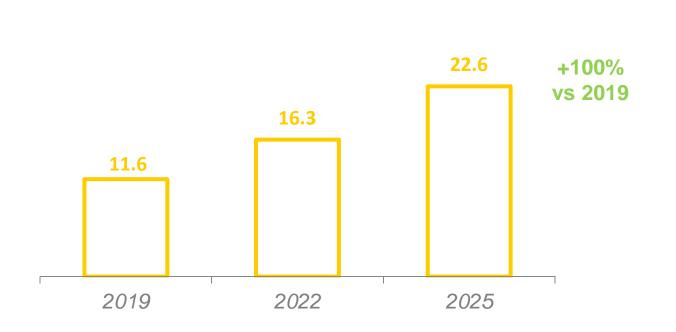
2025 Services breakdown (M)

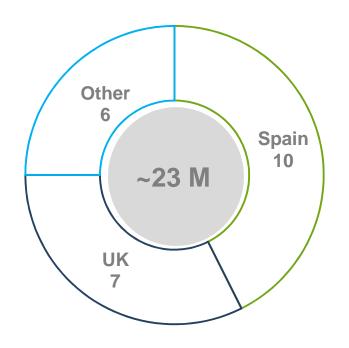


+11 Millions increase of Smart Solutions in the period

Smart Solutions to customers (M services)

2025 Smart Solutions by geography (M)





Retail: Alliances

Building growth alliances with manufacturers & customers along the value chain

Manufacturers

Car dealers

Service **Stations**

Retail, Distribution...

Associations

SMART MOBILITY













Main agreements: Arnold Clark, Grupo Marcos, Montalt, Grupo Huertas, Grupo Julián

















Relevant Projects

SMART SOLAR GREEN H₂











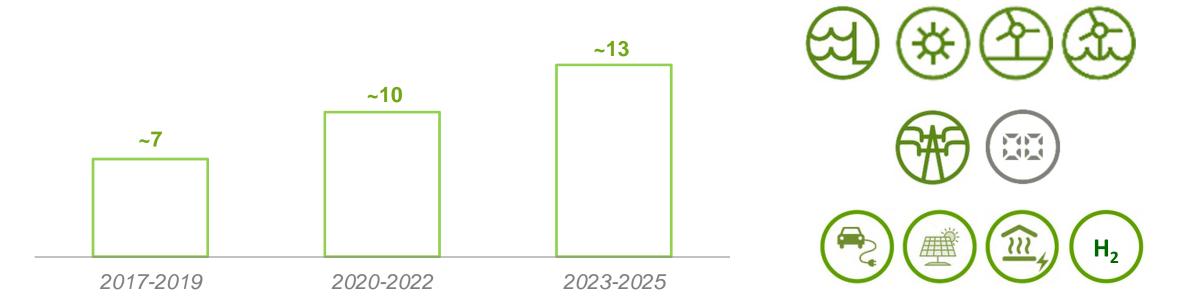






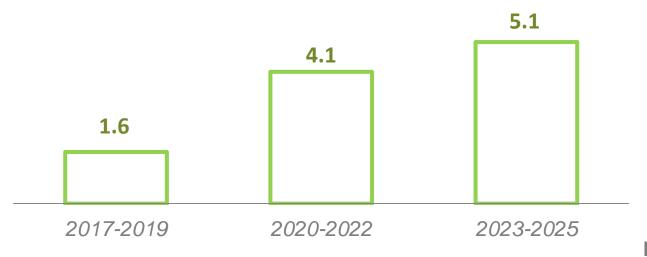
Increase of average investments in line with growth opportunities

Average Gross Investments¹ (EUR Bn/Year)



Strong growth acceleration

△ Renewable Capacity¹ (GW/Year)









2.6

2020-2022



Acceleration of grid investments derived from **decarbonization**

△Asset Base¹ (EUR Bn/Year)

0.8

2017-2019

2025 targets²



Modernization, digitization & automation: Improve Quality: -20%³



Renewables Connections:

> 15 GW⁴



Electrification of mobility:

> 1.7 M EVs connected to the grid



Electrification of buildings & industry:

+1.4 M Heat Pumps

3.0

2023-2025

^{1/} Iberdrola estimates of PNM Resources transaction investment

^{2/} Targets in our Service Territory

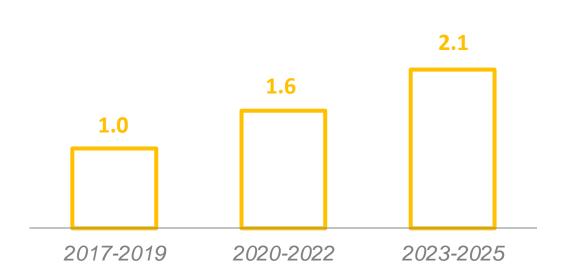
^{3/} vs 2017-19 average

^{4/} Additional to 2020



Increasing growth rhythm derived from larger consumption volume and more products

△ Smart Solutions to customers (M services/Year)







Optimization of processes, standardization and synergies capture along the entire investment lifecycle

Reduction of development & construction periods

- Permitting and sites optimization
- Low-value activities outsource
- Construction standards and packaging
- On-Site scopes and preassemblies
- Replicable Retail Platform

CAPEX optimization

- Projects and equipment standardization
- Modular power plants and works simultaneity
- Standard size of plants (small, medium, large)
- Design optimization

Global development management

- Technology evolution
- Economies of scale
- Global procurement
- Exchange of competitiveness gains and know-how



Benefiting from digitization, experience and economies of scale

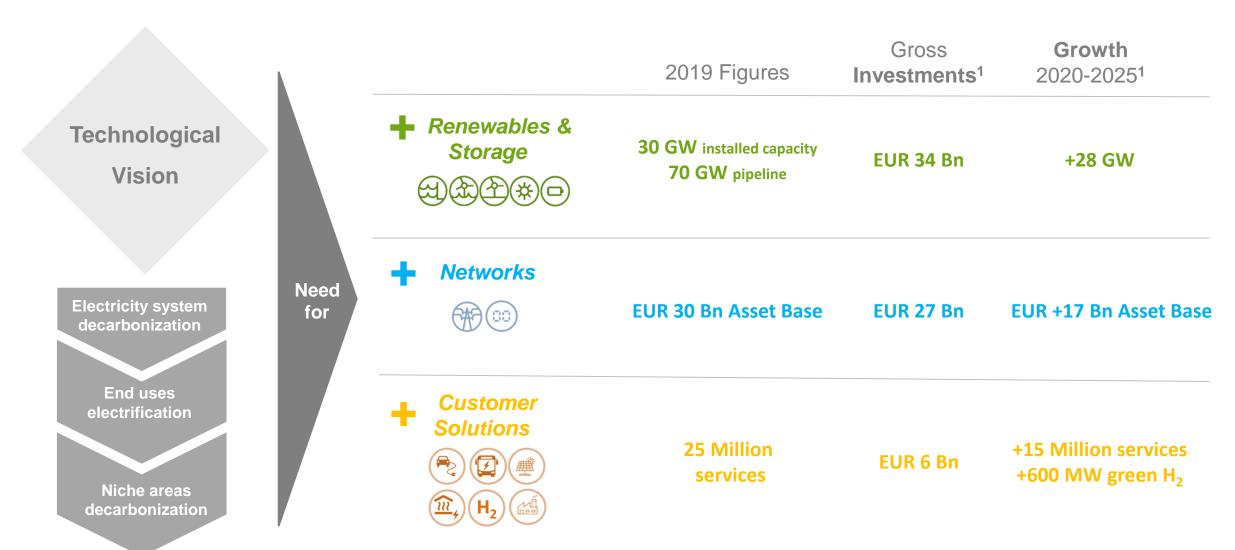
Remote monitoring & diagnosis Increasing remote operations **Smart Operations** Processes, systems and tools Data analytics Logistics & resource distribution Asset value Operational experience Availability maximization optimization Process standardization Technology control and evolution **Economies of scale** Global procurement Health & Safety and Environment



Conclusions



Iberdrola's positioning enables a sustainable and increasing growth in 2020-2025...





... and to optimize the opportunities derived from decarbonization

Experience / Size **Diversification Business** Route to Geogra Management market & Execution capacity Techno logical Stable results Competitiveness Growth opportunities Know-how

Customers



Price hedge

Demand

Products