



# CREDIT INVESTORS' PRESENTATION

November 2023

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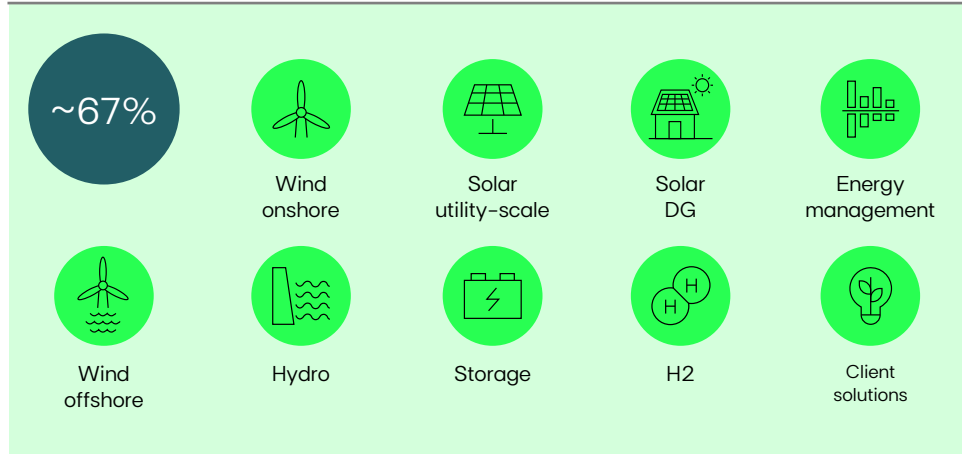
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# We are a global company, leader in the energy sector, present in 4 regional hubs throughout different stages of the value chain

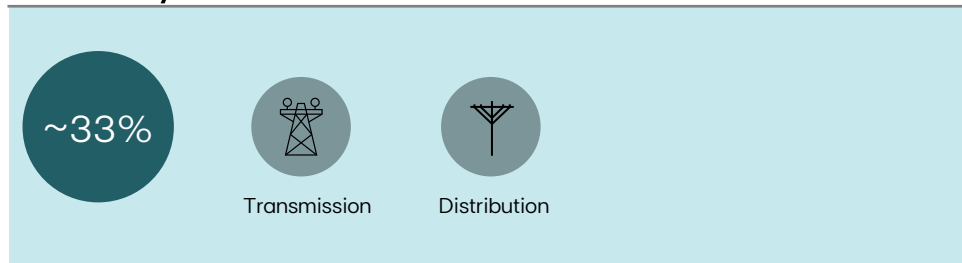


**%** Weight on EBITDA 2022

## Renewables, Clients & EM



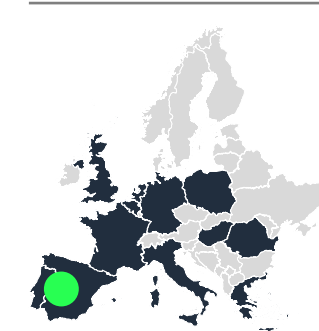
## Electricity Networks



## North America



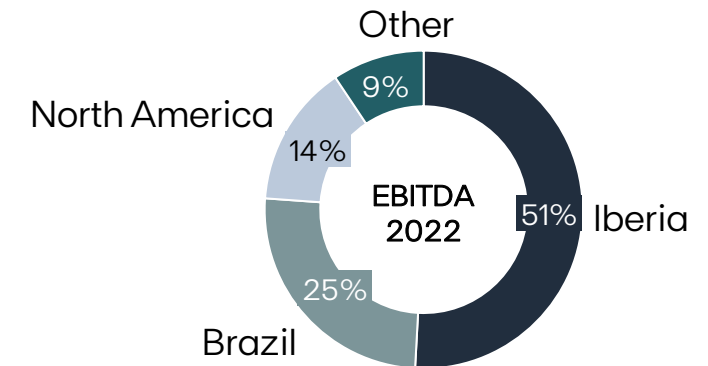
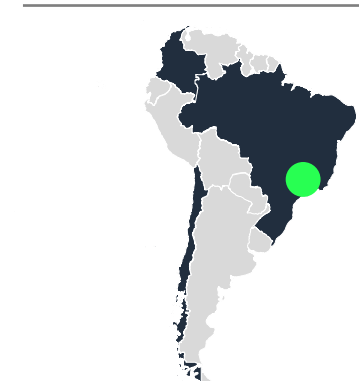
## Europe



## APAC



## South America



## Key indicators

Values as of 2022

Renewables  
Installed Capacity

22  
GW

EBITDA

€4.5  
Bn

Net Profit<sup>1</sup>

€871  
m

Employees

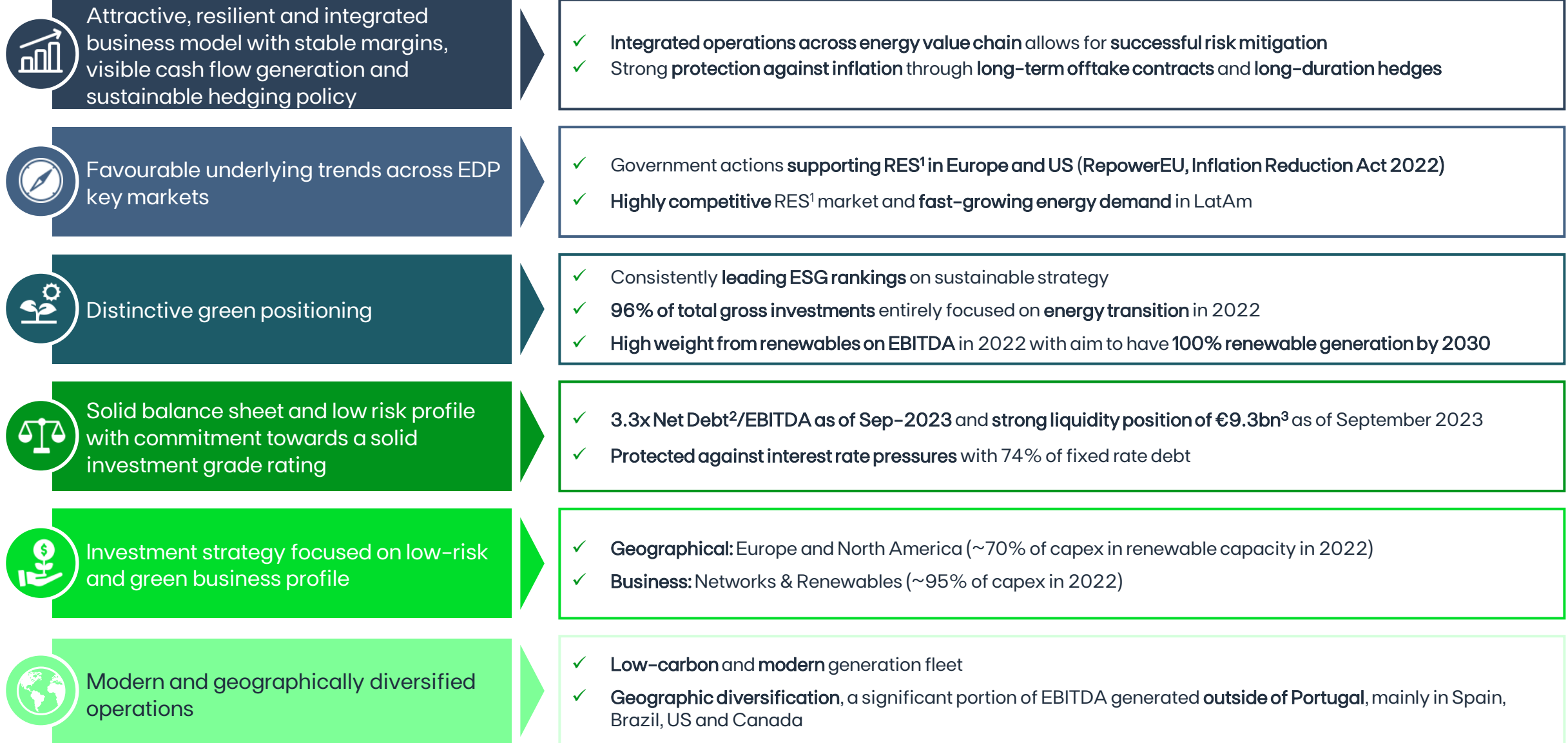
13k

Clients<sup>2</sup>

9 Mn

1. Recurring  
2. Energy and services clients

# Key credit strengths



# Business Strategy Execution

## Our commitments

## Key figures and targets

Accelerated and sustainable growth

**€25 Bn**

gross investment 2023–26

**4.5 GW/yr**

gross additions 2023–26

**>50 GW**

RES gross additions 2021–30

ESG excellence and future-proof organization

**Coal free**

by 2025

**All Green**

by 2030

**Net Zero**

by 2040

Distinctive and resilient portfolio

**BBB**

credit rating

**21%**

FFO / Net Debt by 2026

**>80%**

EBITDA in high-rated markets  
(Europe and North America)

Superior value creation for all stakeholders

**€5.7 Bn**

EBITDA by 2026

**€1.4–1.5 Bn**

net income by 2026

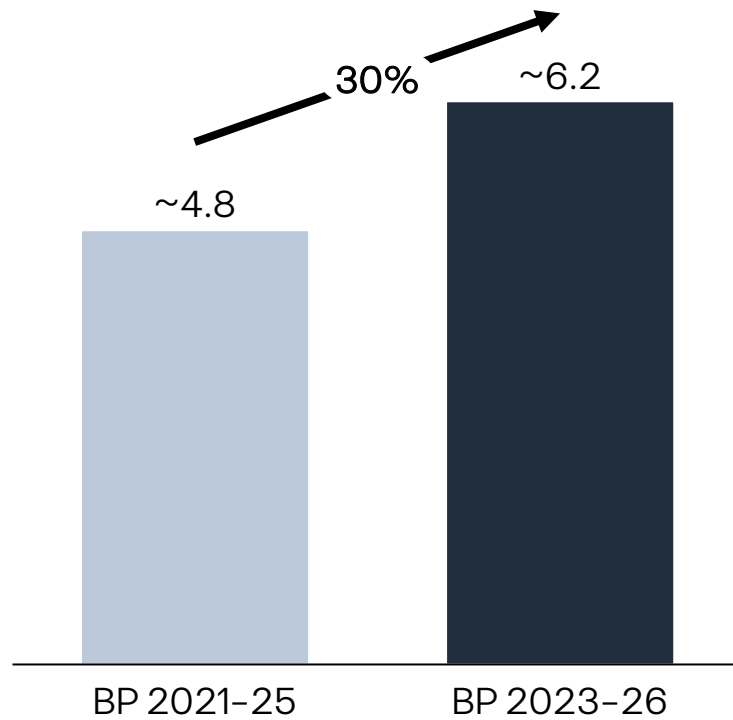
**€0.20**

new DPS floor by 2026

# We are increasing our investment in the energy transition, with a strong focus on renewables and core low-risk markets

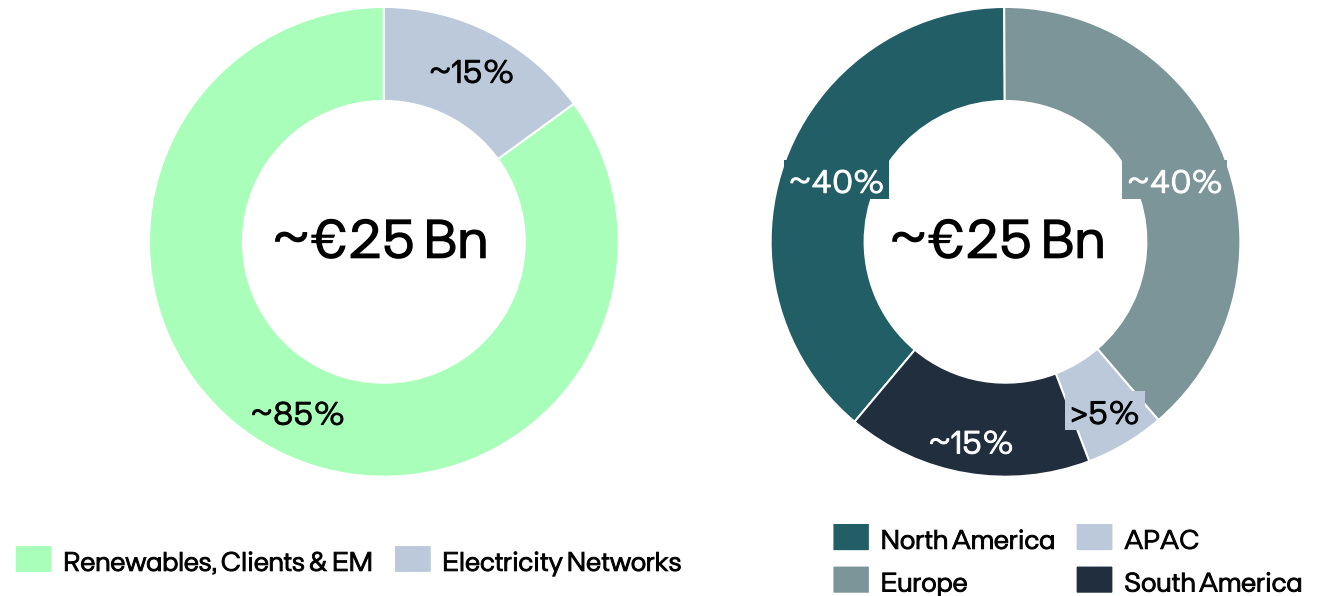
## Reinforcing our investment...

Annual Gross Investments<sup>1</sup> (€ Bn)



## ... in the energy transition, across core low risk markets

Gross Investments<sup>1</sup> 2023-26 (€ Bn)

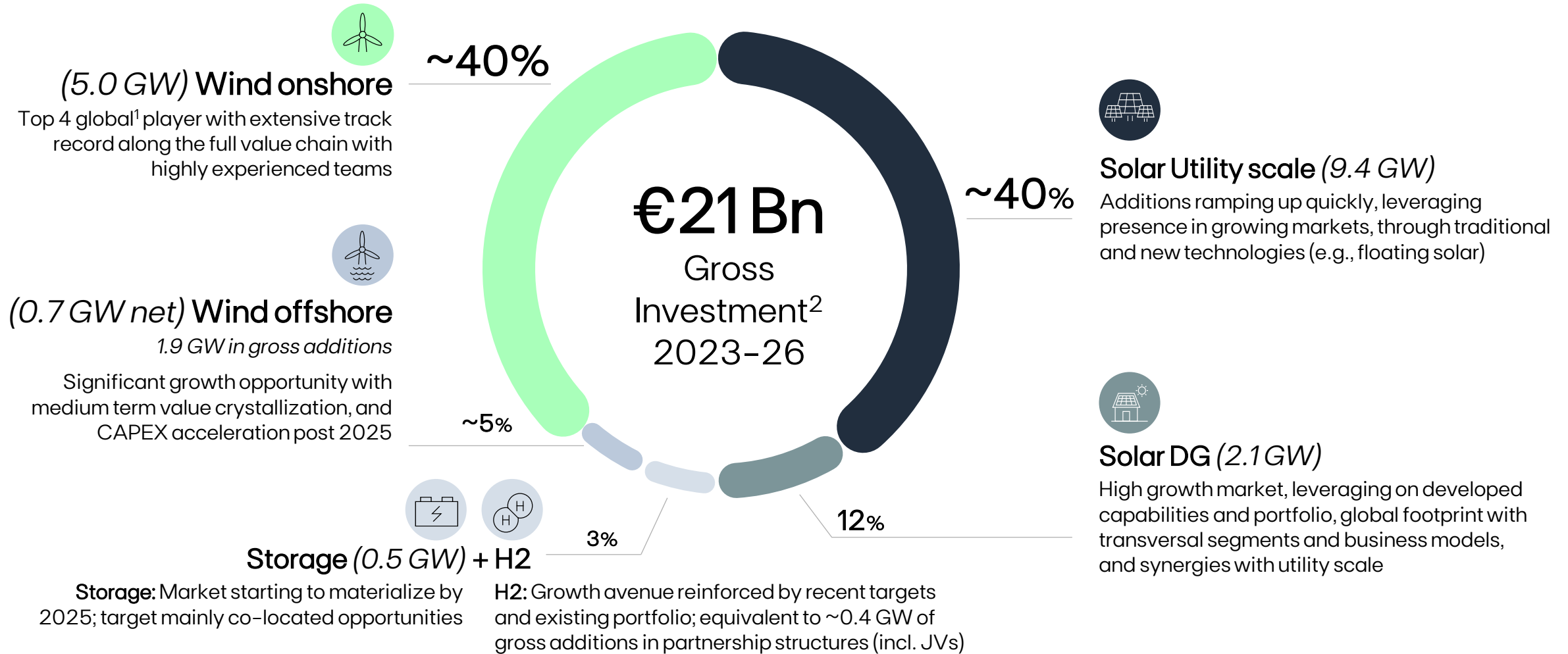


Following a clear investment framework, maintaining our selective and disciplined approach

1. Including financial investments

# We are consolidating our presence across technologies with differentiating value propositions

## Wind & Solar



1. Excluding China  
2. Including financial investments  
Note: All MWs are in MWac



# We are growing our distribution asset base and we have high visibility over the upcoming period



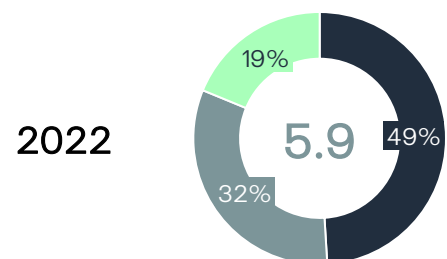
Distribution business

## Growing our Distribution business...

Regulated Asset Base, € Bn

Portugal Spain Brazil

By 2026



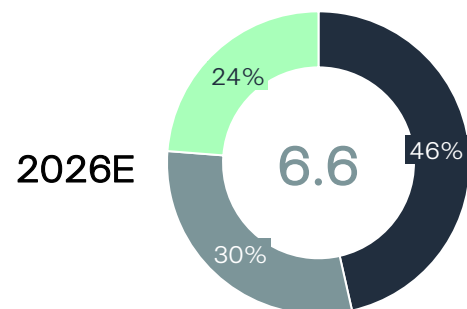
~400,000 kms  
(+~20k vs. 2022)



>90 TWh  
(+~5 TWh vs. 2022)



~12 Mn  
connection points  
(+~500k vs. 2022)



~9 Mn  
smart meters (+2.5  
Mn vs. 2022)

## ... on the back of visibility on regulatory frameworks

	RoR 2023-26	Regulation and inflation visibility	Gross Investments <sup>1</sup> 2023-26
	5-6%	TOTEX methodology indexed to inflation RoR indexed to bond yields	~€1.5 Bn
	5.6%	Next regulatory period starting in 2026	~€0.6 Bn
	7-8% <sup>2</sup>	Revenue indexed to inflation	~€1.1 Bn
			~€3.2 Bn

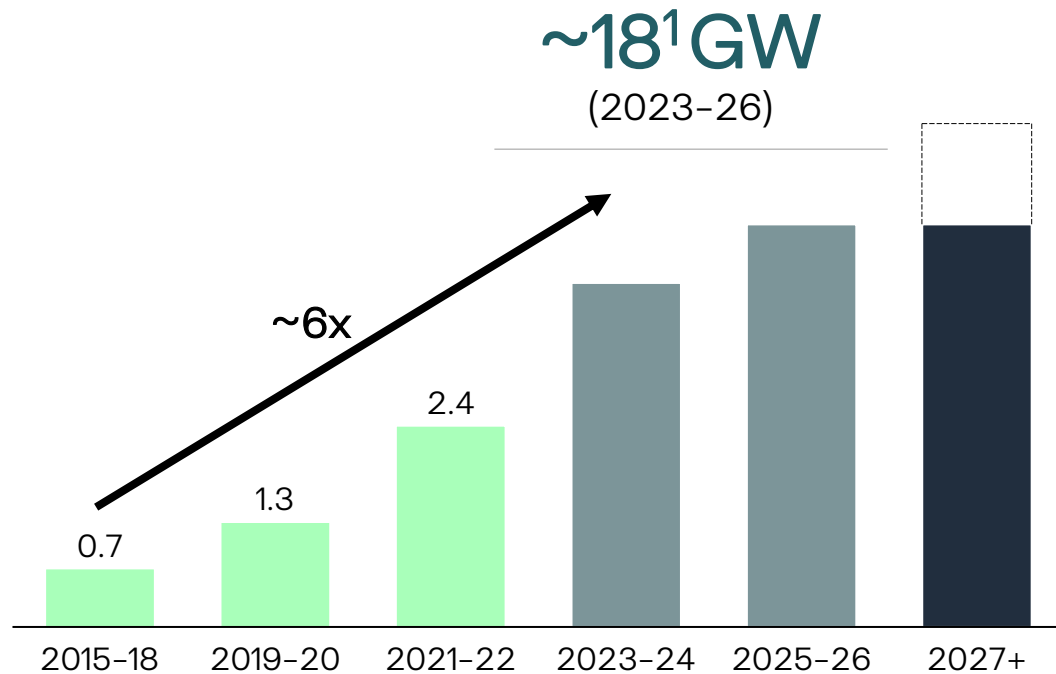
1. Including financial investments  
2. Regulatory WACC after-tax in real terms

# We are successfully ramping up growth with clear visibility on execution



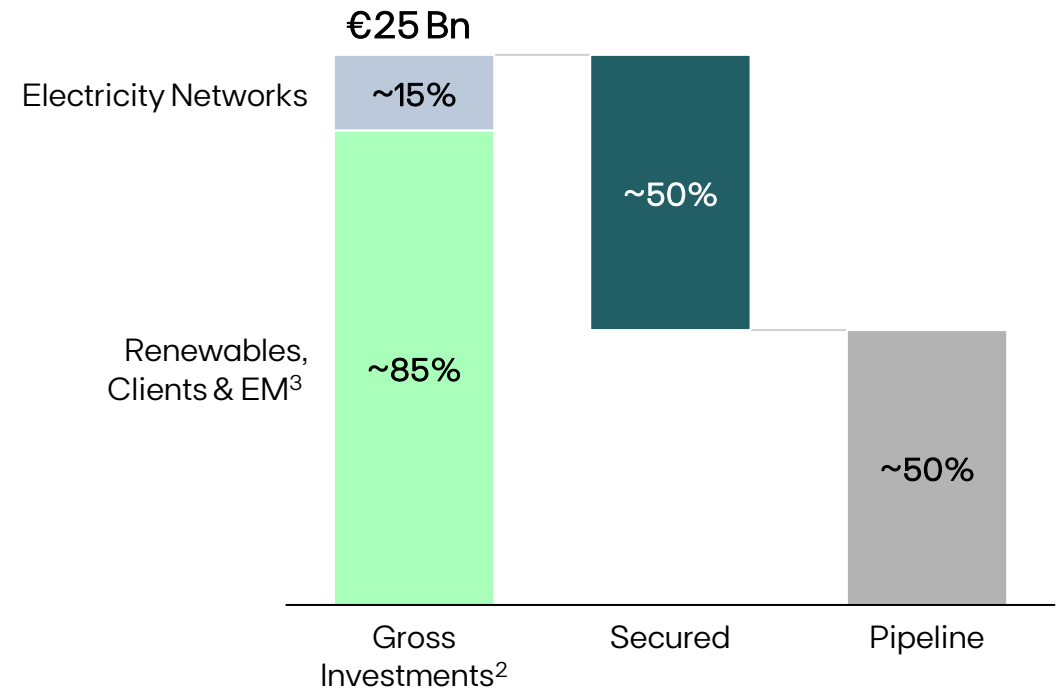
## We are scaling-up our growth rate...

Gross additions, GW



## ... and have clear visibility on execution

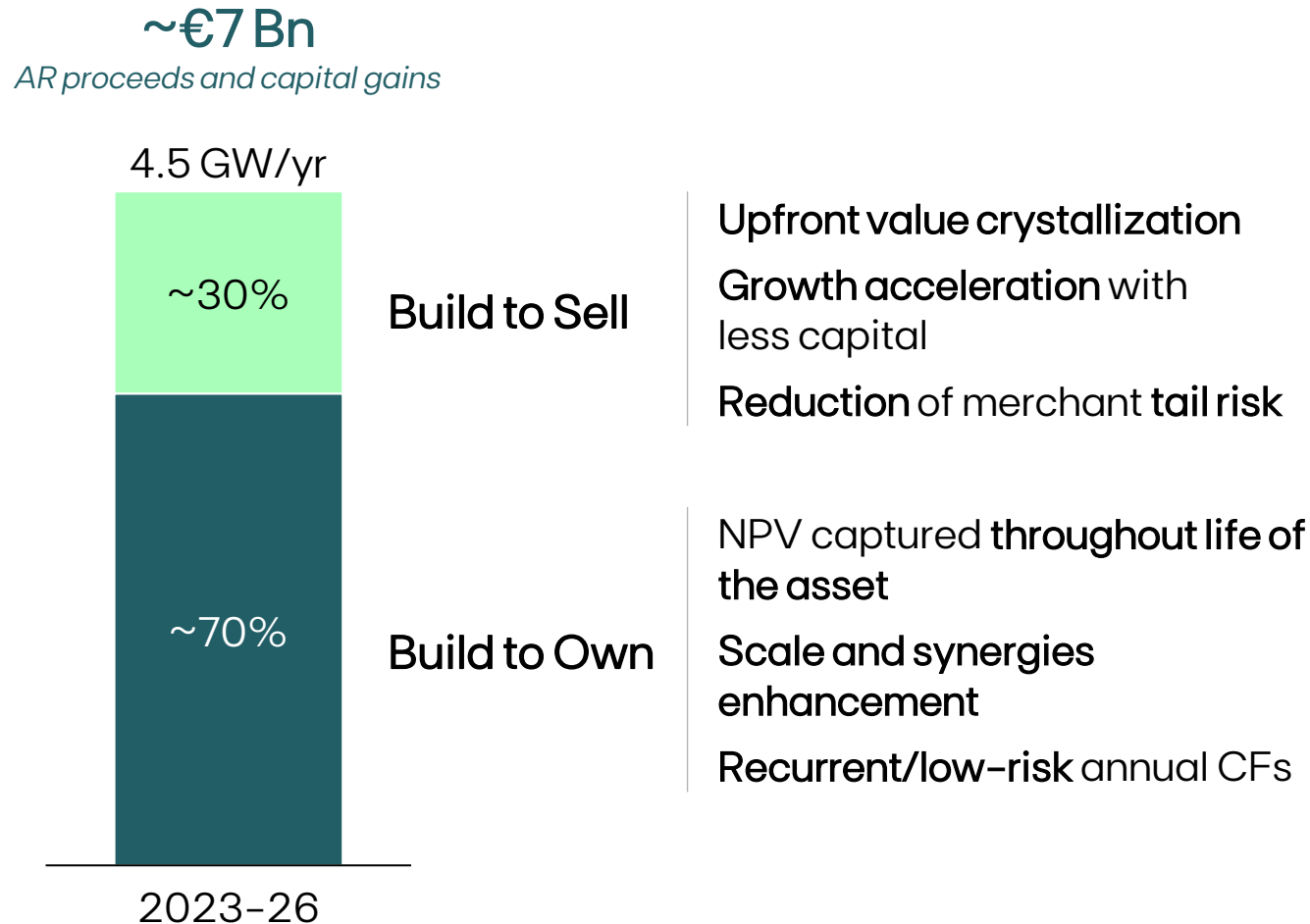
€ Bn, 2023-26



1. Includes ~17.1 GW from EDPR and ~0.7 GW of Solar DG as a service from Clients & EM in Europe and Brazil; excludes ~1.4 GW of Solar DG B2C Build and Transfer from Clients & EM in Europe and Brazil

2. Including financial investments | 3. Energy Management

# We will deploy our distinctive asset rotation strategy to crystalize value and fund additional growth opportunities



~€20 Bn

EV<sup>1</sup> rotated track record since 2012

~€1.7 Mn

Avg. EV/MW in 2021-22<sup>2</sup>

~40%

Avg. AR gains/invested capital in 2021-22

>200 bps

IRR spread, with proceeds reinvested in quality and value accretive projects

1. Considering EV at 100%  
2. Average proceeds of Wind and Solar per MW

# We are actively managing EDP's listed subsidiaries



Core EDP growth business with long-term value (>70% ownership)  
Largest European listed pure-play renewables

**Capital raise of c. €1.0 Bn to fund acceleration of accretive renewables growth**



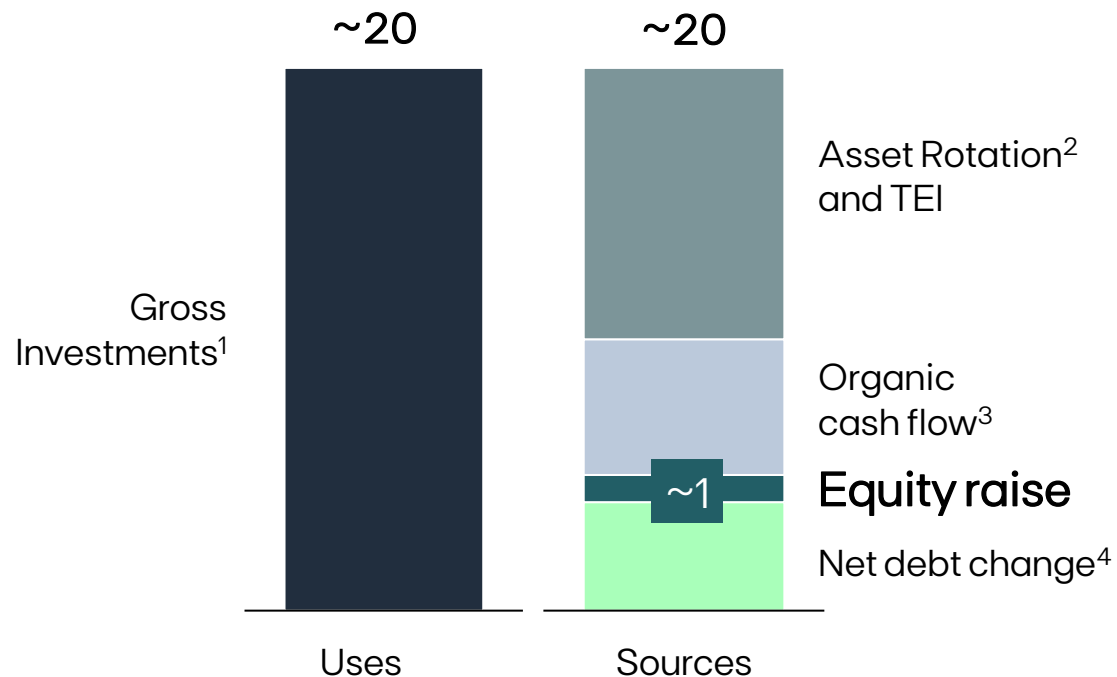
Sizeable market with solid fundamentals and energy transition opportunities  
Focus on networks and renewables through portfolio reshuffling

**Corporate simplification with accretive delisting of EDP Brasil funded through capital raise of c. €1.0 Bn at EDP**

# Successful execution of capital raise at EDPR to fund acceleration of accretive renewables growth

## Sources and uses of cash

EDPR, € Bn 2023-26



## Equity raise at EDPR

- ✓ EDPR has a Gross Investments plan of ~€20 Bn to deploy ~17 GW of renewables additions in 2023-26
- ✓ To partially finance its Gross Investments plan, EDPR successfully executed a €1 Bn equity raise
- ✓ Issue price of €19.62 per share; Representing a 3.7% discount to CMD day closing spot price

1. Includes financial investments

2. Book Value including equity proceeds @stake sold minus capital gains (includes offshore), as well as debt and TEI deconsolidation

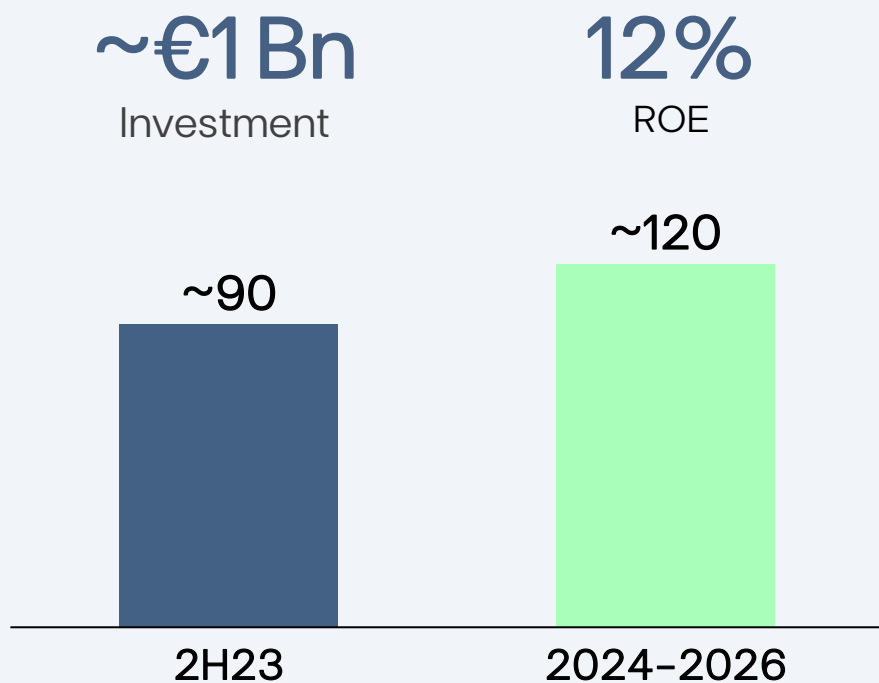
3. Organic CF = Operating CF excluding regulatory receivables, net of interests, maintenance capex, dividends paid to minorities and TEI payments, plus asset rotation gains

4. Includes dividend cash out estimated of ~€0.1Bn (assumes EDP opts for shares and that free float opts 75/25 between shares and cash)

# EDP Brasil minorities acquisition contributing to earnings growth, reinforcing the alignment of the portfolio with the global energy transition

## EDP Brasil earnings 100% consolidated in 2H23

Net profit enhancement from EDP Brasil minorities acquisition  
€M/year



## Strategy in Brazil fully aligned with the energy transition

Focus on electricity networks & renewables

**Electricity networks:** organic growth in distribution and transmission

**Renewables:** Addressing Solar B2B (DG and utility scale)

Portfolio reshuffling 2023 / 2024

**Thermal exit:** Pecém sale process ongoing

**Asset rotation in transmission** signed

**Further reduction of exposure to hydro,** following Mascarenhas disposal in 2022

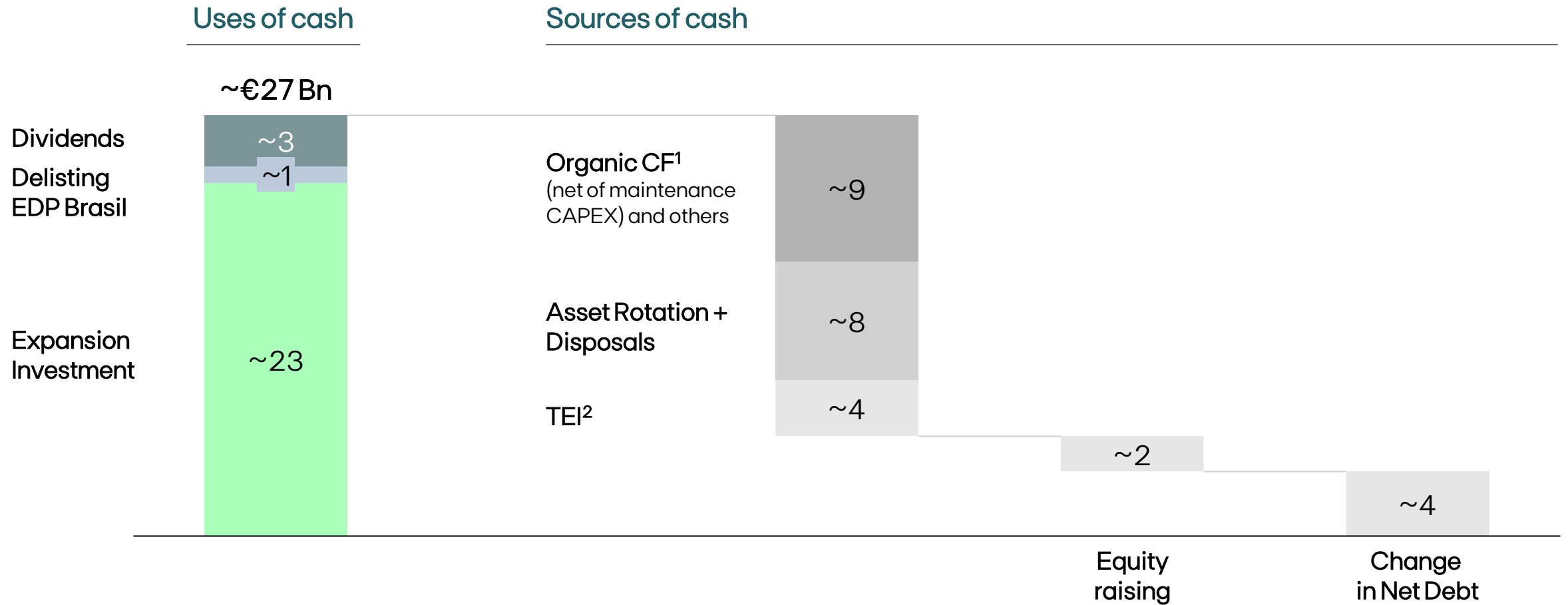
Efficiency

EDP Brasil/EDPR Brasil operating and financial synergies to come in 2024

# We have diversified sources of cash to deliver on our growth



BP23-26 Organic Sources and Uses of Funds (€ Bn)



1. Operating CF net of interests, maintenance capex, dividends paid to minorities and TEI payments. Includes asset rotation gains  
 2. Excludes tax equity deconsolidated in relation to AR projects

# We have a prudent financial policy with a centralized management, supporting a solid investment grade rating



## Rating

Keep BBB rating, by maintaining sound credit metrics and overall portfolio quality

**BBB** investment grade rating



## Green financing

Tap most efficient markets, leveraging appetite for green funding, in line with sustainability strategy

**60%** sustainable financing by 2026



## Cost of debt

Continued active management of cost of debt

**4.3%** average cost of debt 2023–26



## Active debt and liquidity management

Strong liquidity position, preferring committed facilities – liability management to improve cost of debt and optimize capital

**12–24** months of refinancing ahead



## Centralized and diversified funding

Centralized funding management, except for ring-fenced EDP Brasil and project finance in renewables

**> 80%** raised at holding level



## Interest and foreign exchange risks

Prioritize funding in the same currency of activities, and active management for optimizing funding costs

**75%** Fixed rate as of Dec–22



# We remain fully committed to a strong BBB rating to structurally support the CAPEX cycle ahead

We achieved the target BBB rating...



Improved FFO/Net Debt, reaching >20% since 2021

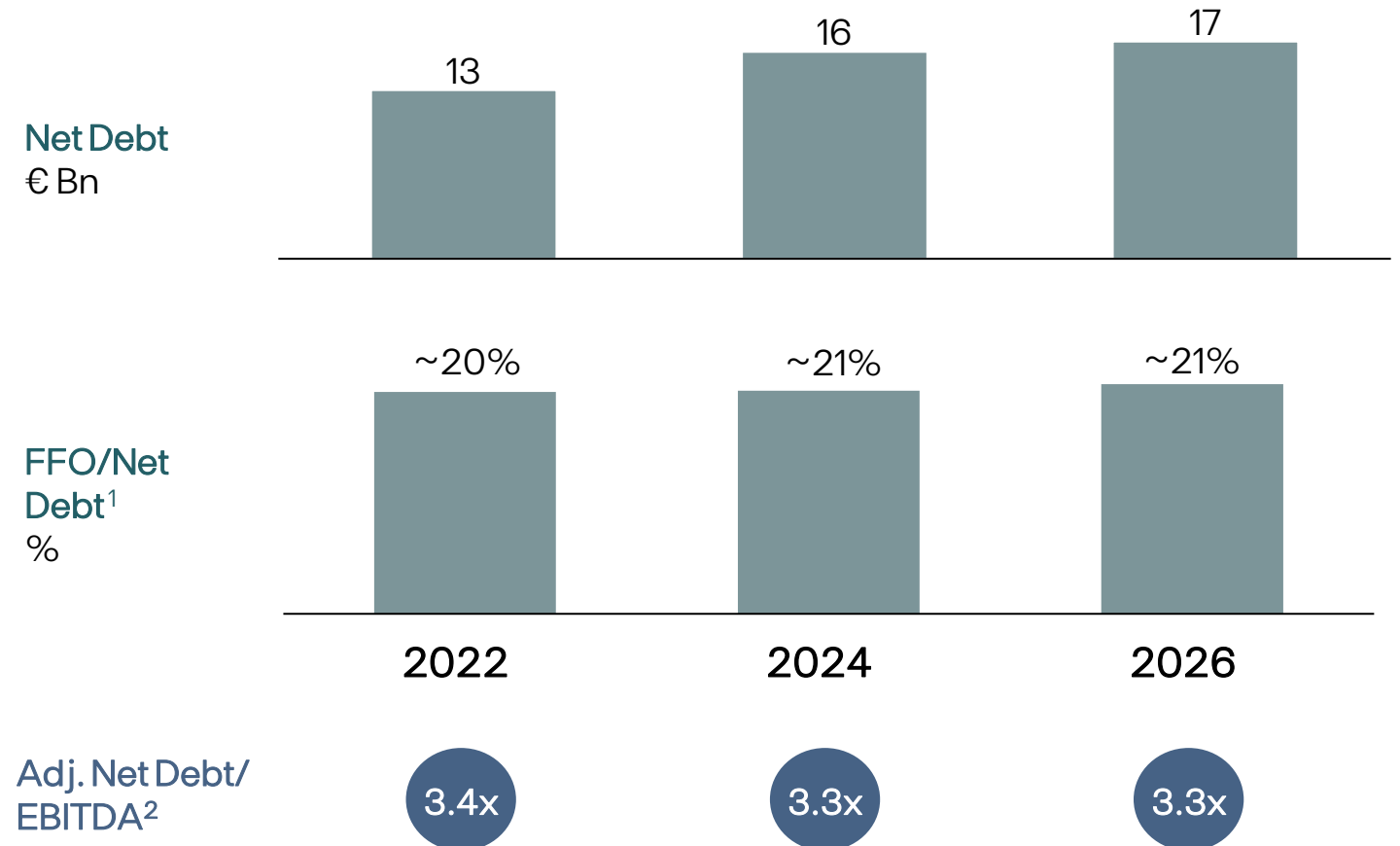


Solid cash flow generation with +€4 Bn net debt after a €25 Bn gross investments plan



Operating with flexibility to further reinforce balance sheet (e.g., asset rotation, portfolio optimization)

... and reinforce our commitment to keep a strong balance sheet



1. FFO/ND formula consistent with rating agencies methodologies, considering EDP definition of EBITDA Recurring  
 2. Financial net debt + Leases - Regulatory receivables / Recurring EBITDA (including AR gains and excluding one-offs)

# High financial liquidity at >€9 Bn, supported by >€6bn of available credit lines, covers refinancing needs until 2026



## Financial liquidity

as of Sep-23, €Bn

Cash & Equivalents 2.0

Available Credit Lines 6.5

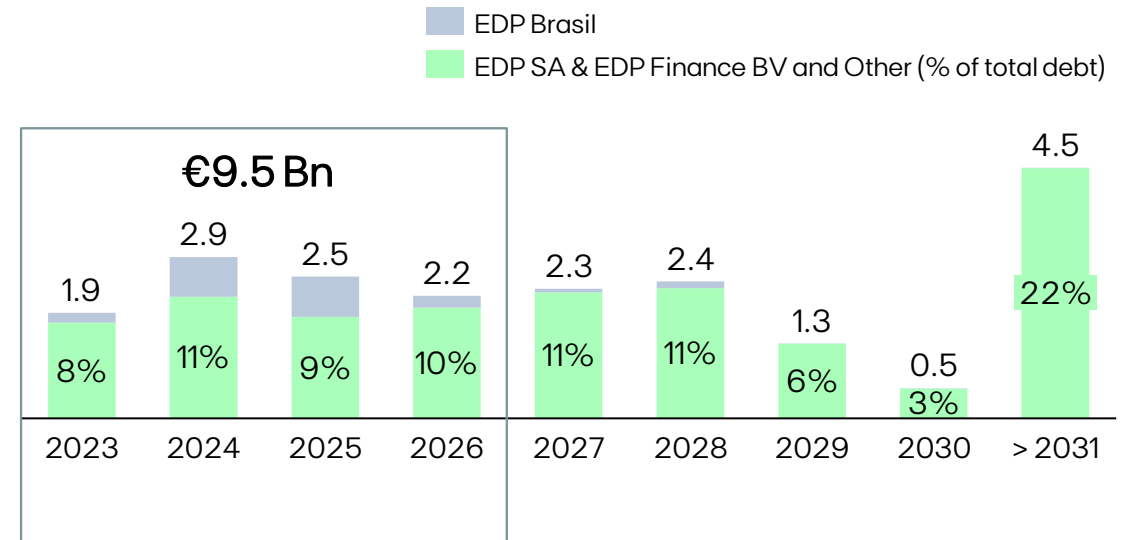
**Total Liquidity €8.5Bn**

Asset rotation transactions in Poland (closed in Oct-23) and Brazil (agreed in Aug-23) **+€0.8Bn**

**Total Liquidity €9.3Bn**  
including AR proceeds to be cashed-in until YE23

## EDP consolidated debt maturity profile<sup>1</sup>

as of Sep-23, €Bn



## Avg. nominal debt by interest rate type

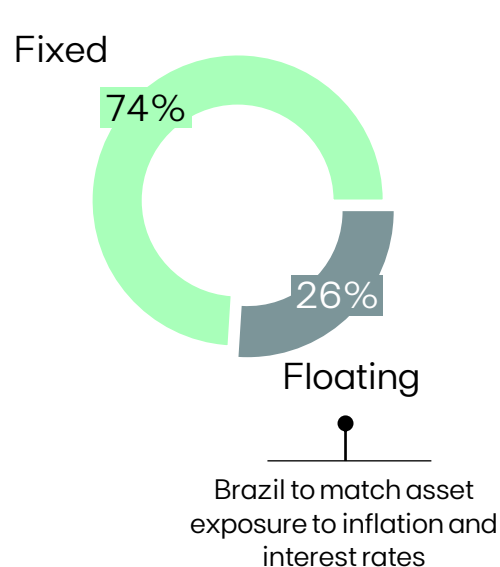
as of Sep-23



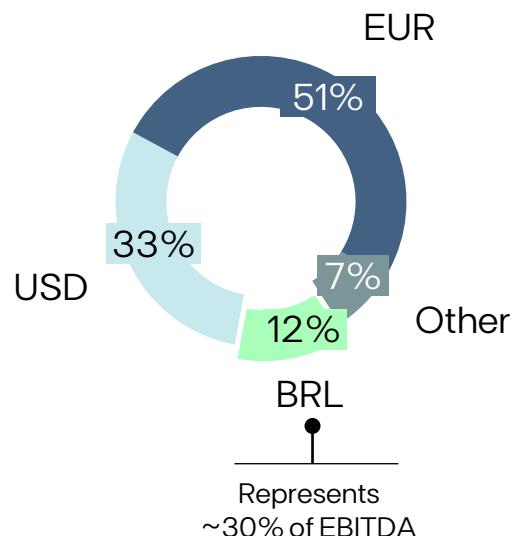
1. Including hybrids at maturity

# Limited exposure to short-term interest rates, successful execution of pre-hedge for 2023-24, and continued high demand for clean energy AR

Debt by interest rate type as of Sep-23, %

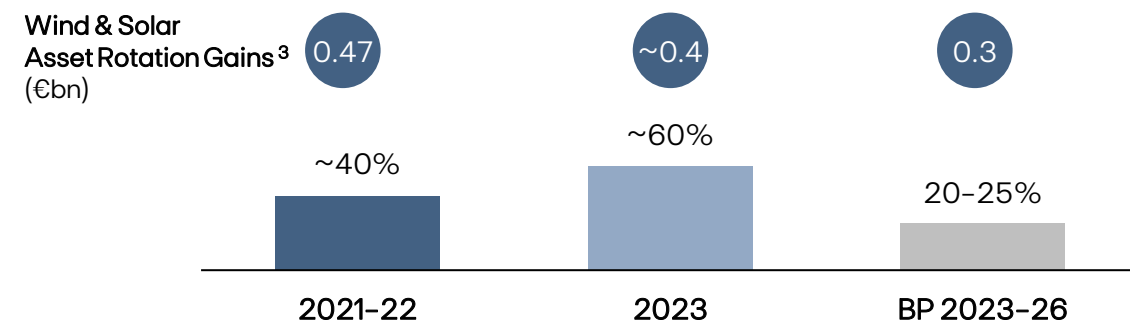


Avg. nominal debt by currency as of Sep-23, %

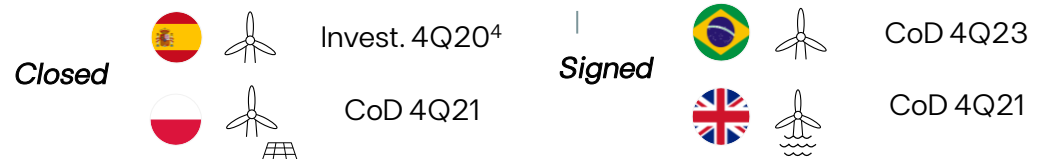
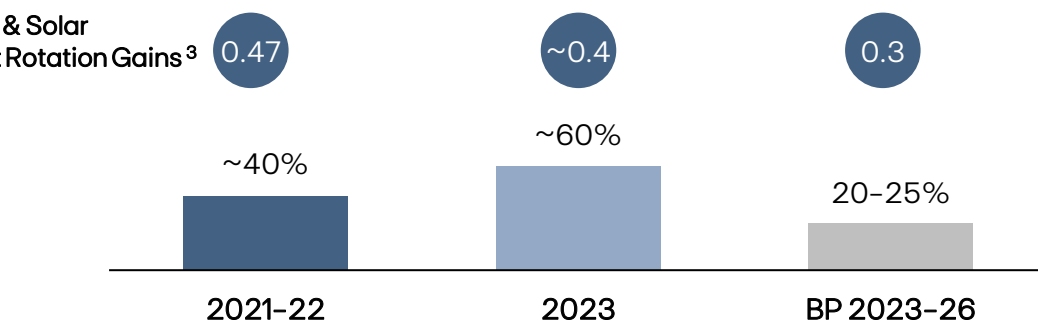


## Strong asset rotation execution, exceeding targeted gains and proceeds

Wind & Solar AR Gains/ Invested Capital (%)



Wind & Solar Asset Rotation Gains<sup>3</sup> (€bn)



Signing of Asset Rotation deal for 2 transmission lines: 857 Km, BRL 288m Annual Allowed Revenue, EV@€500m

**>€1.5 Bn** expected proceeds for 2023, ~25% of €7bn target for 2023-2026

## 2023 Bond Issuances and Rates Pre hedges

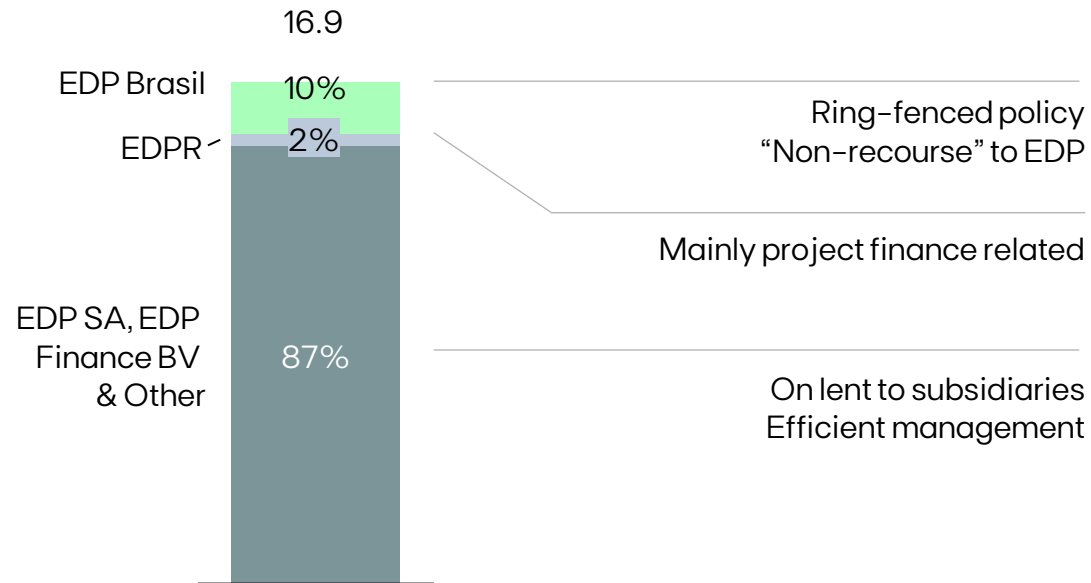
Date	Amount	Maturity	Implicit Yield
Jun-23	€750m	June 2028	2.5% <sup>1</sup>
Oct-23	€600m	April 2029	3.70% <sup>2</sup>
Oct-23	€750m	April 2032	4.375%
<b>Total</b>	<b>€2,100m</b>		<b>3.5%</b>

1. Implicit yield (coupon @3.875%, 5y Mid Swap pre-hedged for 2023, @1.8%); 2. Implicit yield (coupon @4.125%, 5y Mid Swap partially pre-hedged for 2023 @1.8%)  
3. For 2023, considering the two closed projects in Spain and Poland as of 9M23 4. Part of Viesgo acquisition

# We are raising funds primarily at Holding level, ensuring an efficient debt management

## EDP Consolidated net debt position

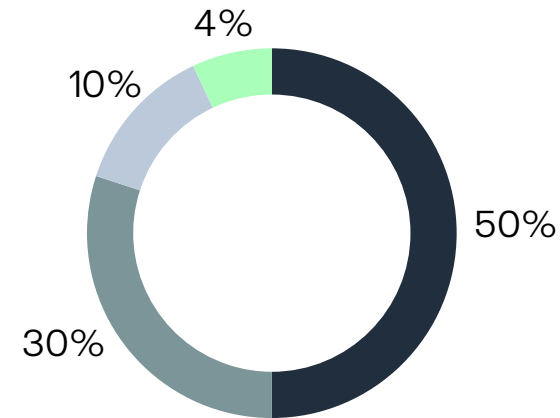
as of Sep-23, € Bn



## Sources of debt funding as of Sep.23

as of Sep-23, %

- Green Bonds
- Loans and other
- Conventional Bonds
- Commercial paper



Capital Markets  
80%

Tap most efficient markets

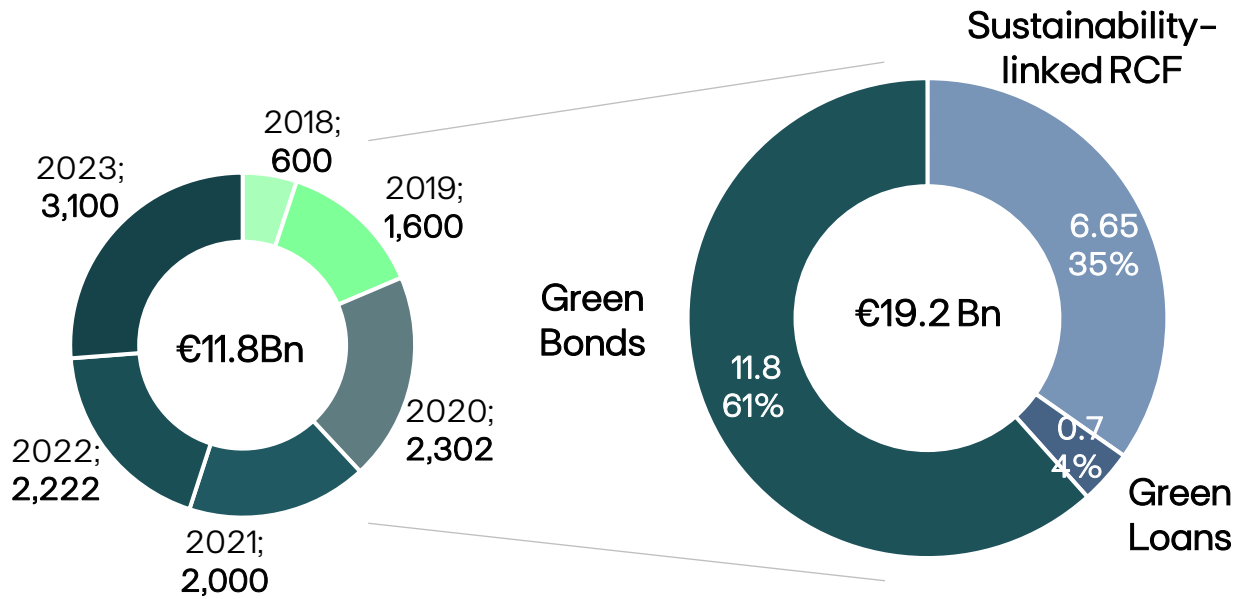
Green Funding aligned with Sustainability strategy

Funding needs primarily raised at Holding level (>80%), through diversified sources of funding, on-lending the funds to its subsidiaries

# We are maintaining a 100% green bond issuances strategy, aligned with the EU Taxonomy

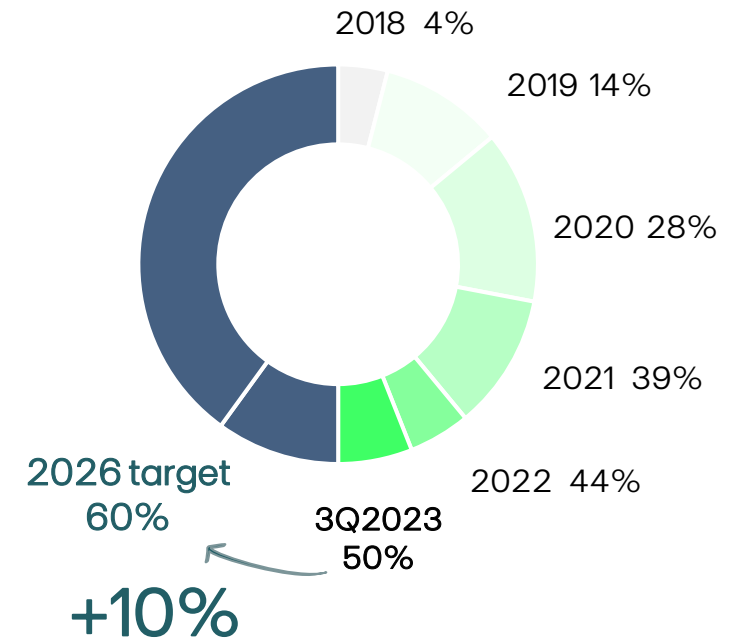
## Total Sustainable Financing Contracted<sup>1</sup>

€ Bn, %



## Share<sup>4</sup> of Sustainable Funding

as of Sep-23, € Bn, %



Total green bonds issuances: EUR ~11.8bn

49% EUR senior | 40% EUR Hybrid | 11% USD senior

Total green bonds outstanding<sup>2</sup>: EUR ~11.1bn

Both RCFs have two ESG KPIs: reduction of total Scope 1 and 2 GHG<sup>3</sup> emissions; and renewables installed capacity

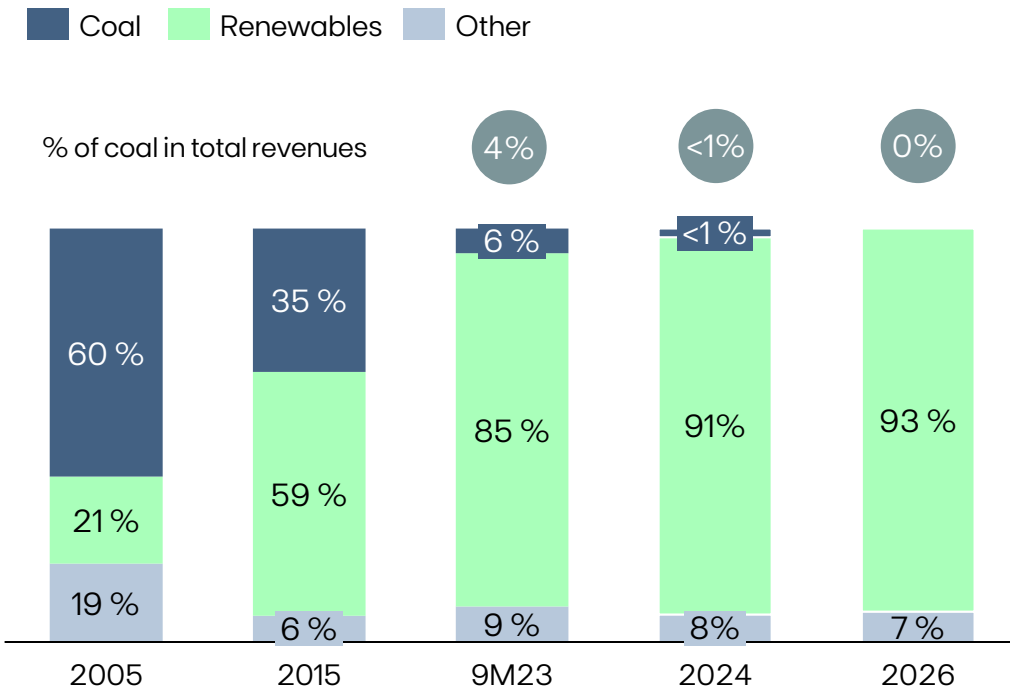
Sustainable financing will be driven not only by green bonds and loans but also by sustainability-linked instruments

1. Including the €1.35Bn EUR Bonds issued in October 2023 | 2. Tender offer of January 2023 allowed EDP to redeem EUR ~673 million of the first green hybrid issued | 3. Green house gas | 4. As a percentage of financial gross debt

# We are on track to be coal-free by 2025, with significant steps taken this year



## EDP's total electricity generation mix



Coal-free  
by 2025

## Promoting a Just Transition in old coal sites



**Pecém**  
0.7 GW

- Sale of 80% stake signed in Sep 20<sup>th</sup>, 2023 with a put option for the remaining 20%
- Plans to convert the plant to other sources of fuel: e.g. natural gas and blends with hydrogen or biomass
- Pilot green hydrogen project in operation and analyzing to develop larger scale projects



**Aboño II**  
0.6 GW

- 50/50 Partnership signed on October 26<sup>th</sup> 2023
- To be converted into a gas-fired plant in 2025
- Hydrogen projects ongoing – Asturias Green Hydrogen Valley selected for EU funding



**Soto 3 + Los Barrios**  
0.8GW

- Authorization for closure requested by EDP
- Development of just transition projects in these sites, in particular renewable hydrogen projects



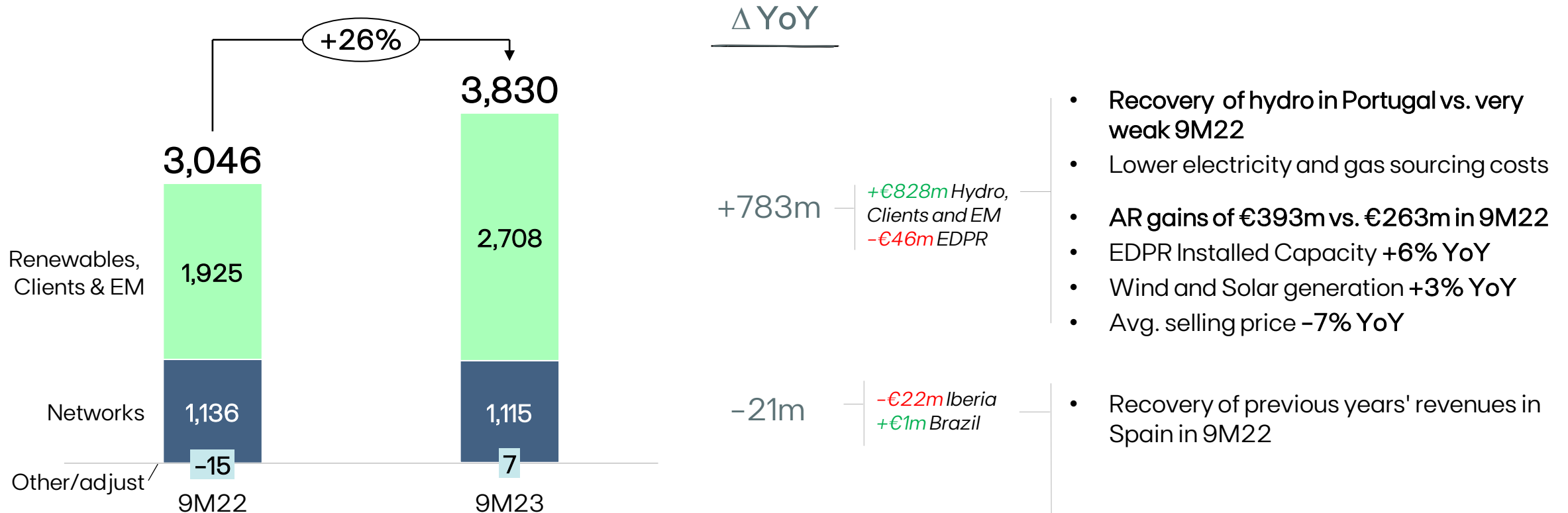
# 3Q23 Results

# Recurring EBITDA +26% YoY prompt by a recovery on hydro conditions and lower sourcing costs, together with ~€0.4Bn of AR Gains



## Recurring EBITDA<sup>1</sup>, €m

YoY growth, %



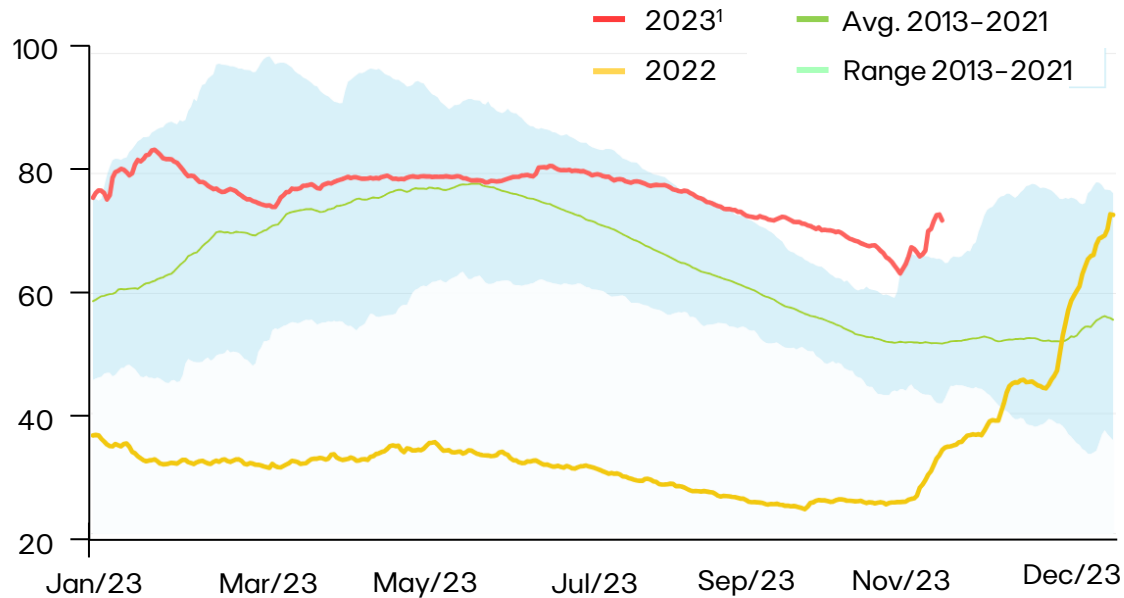
1. Including positive ForEx impact;



# 4Q23 supported by strong hydro volumes and improved prospects for 2024-26 following upward trend on electricity forward prices in 2H23

## Reservoirs in 3Q23 at the highest level in 10 years

Reservoir levels in Portugal (%)

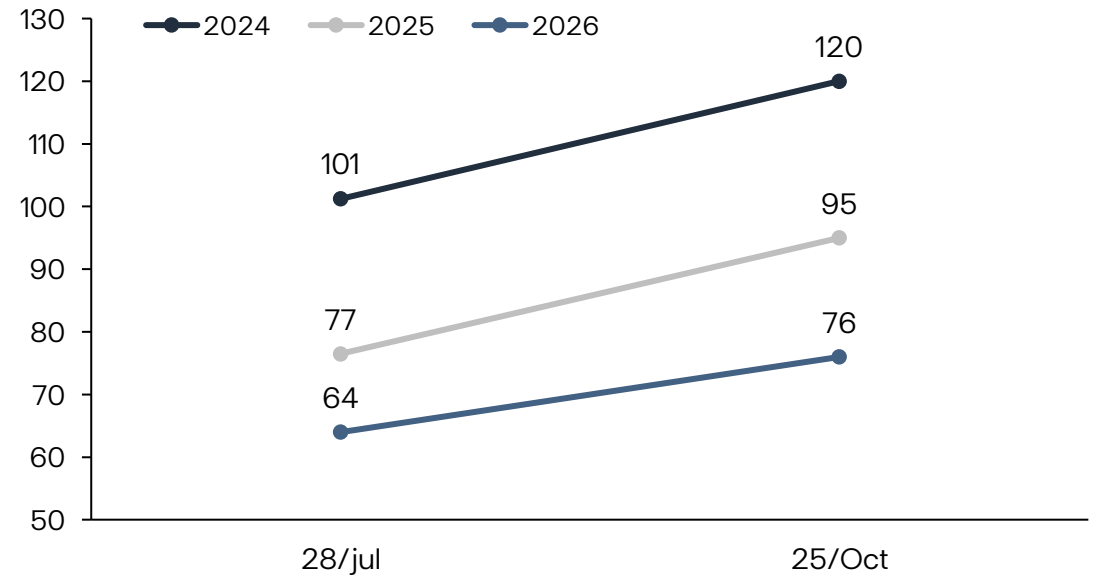


- ✓ Hydro reservoir levels at ~70% as of today, close to the maximum of the last ten years for this time of the year
- ✓ Hydro generation recovery: 75% above average Oct. 2023 but still 14% below average in accumulated terms

1. Reservoir levels until October 31<sup>st</sup>, 2023

## Over the last 3 months, forward electricity prices for 2024-2026 deliveries have rebounded significantly

Annual forward electricity wholesale prices Iberia (€/MWh)



- ✓ Recent c. 20% increase in forward prices in Iberia
- ✓ Baseload production 50% hedged for 2024

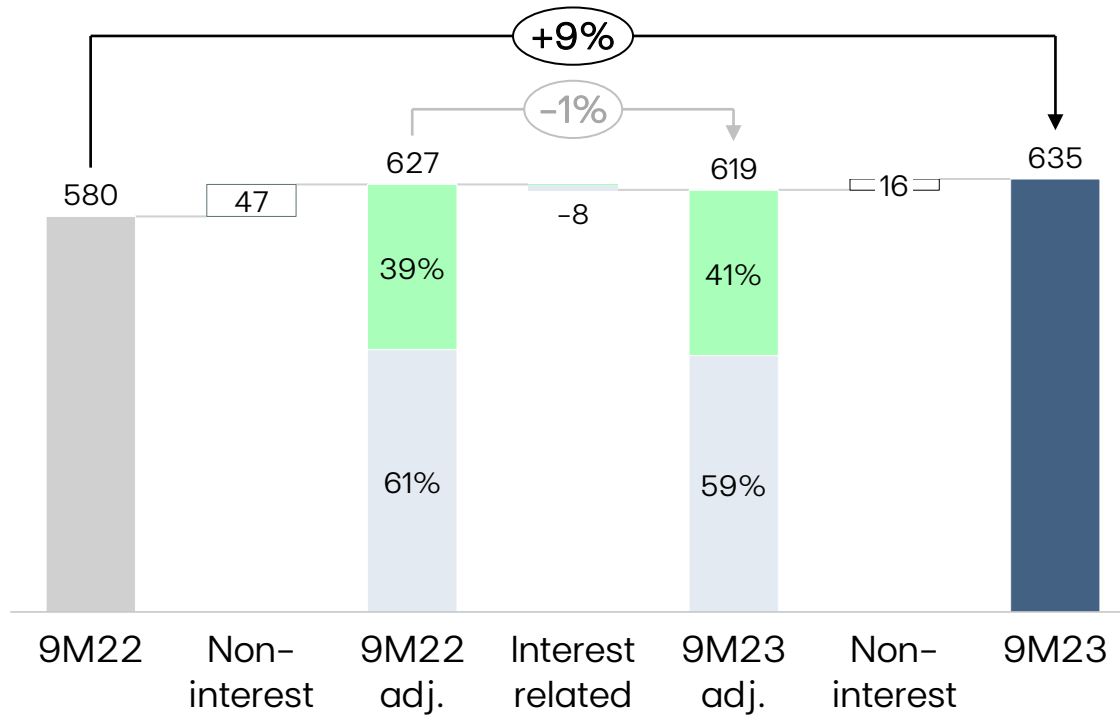
# Net financial costs increased +9% YoY penalized by FX, interest related costs flat YoY



## Net Financial Costs

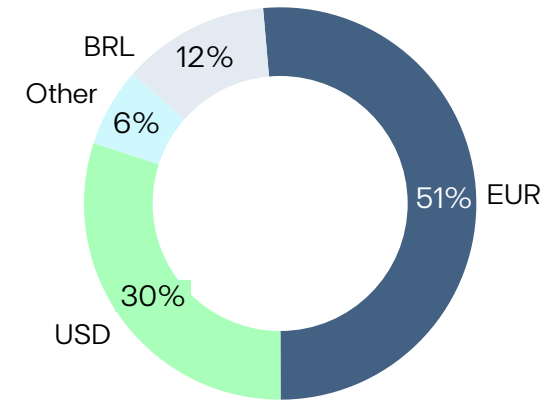
€m

EDP excl Brazil Brazil



## Avg. nominal debt by currency

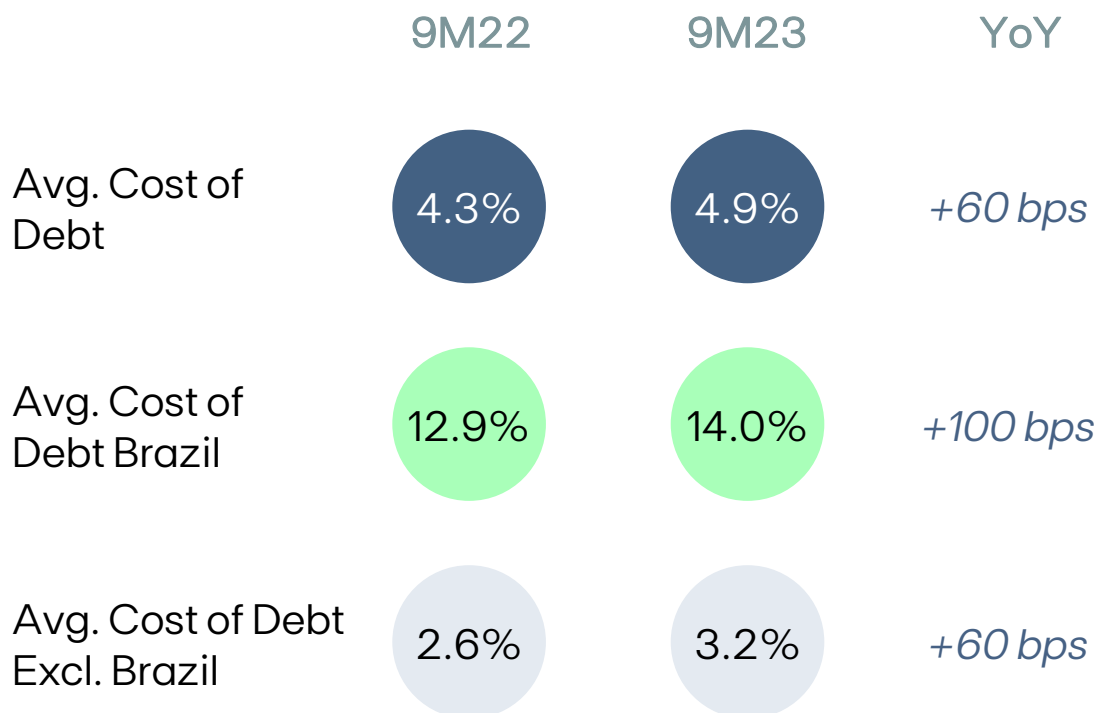
%



- > Avg cost of debt of 3.9% with BRL representing 12% of nominal debt but 40% of interest costs
- > Higher volumes of construction activities contributing to increase of capitalized interests

# Cost of debt increase mitigated by pre-hedge of interest rates, declining weight of USD debt and recent decrease of benchmark interest rate in Brazil

## Cost of Debt<sup>1</sup>



## 2023 Bond Issuances and Rates Pre hedges

Date	Amount	Maturity	Implicit Yield
Jun-23	€750m	June 2028	2.5% <sup>2</sup>
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Oct-23	€750m	April 2032	4.375%
<b>Total</b>	<b>€2,100m</b>		<b>3.5%</b>

- > BRL denominated debt with a significant weight of interest costs (~40%); BRL benchmark rates decreasing since early Aug-23
- > Decline in USD debt weight with a positive impact on financial costs: ~€100m lower interest costs in 24-26

1. Annualized gross interests / Avg Gross Debt; hedged for 2023 @1.8%)

2. Implicit yield (coupon @3.875%, 5y Mid Swap pre-hedged for 2023, @1.8%);

3. Implicit yield (coupon @4.125%, 5y Mid Swap partially pre-

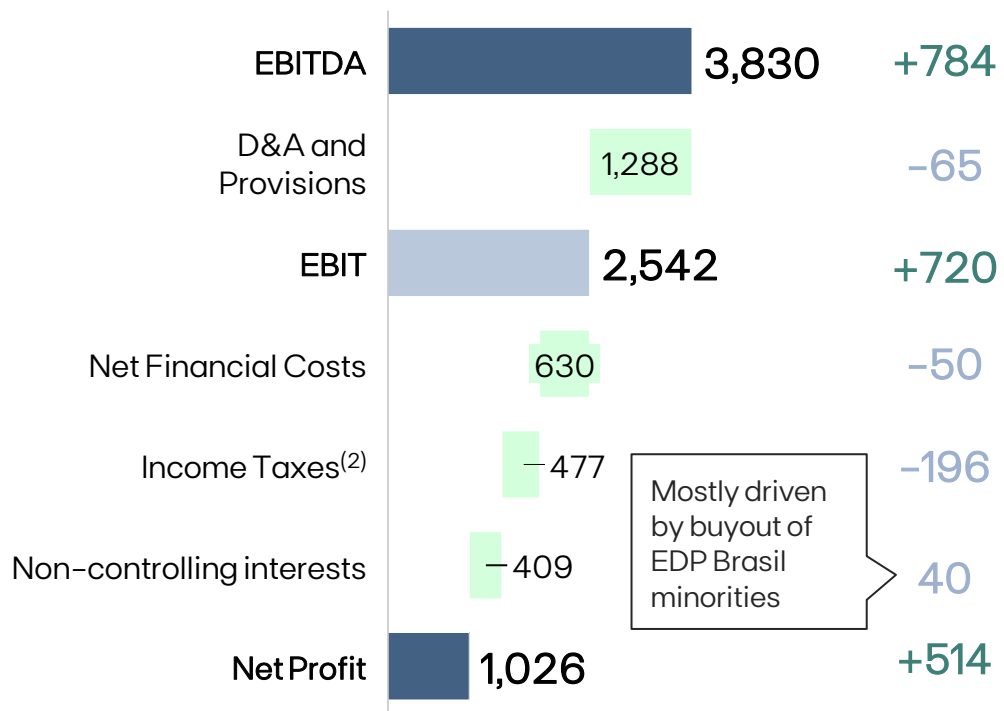
# Recurring net Profit of €1.0 Bn, with YoY comparison reflecting the hydro crisis in 9M22, and supported by lower minorities in Brazil since 3Q23



## Recurring Net Profit<sup>1</sup>

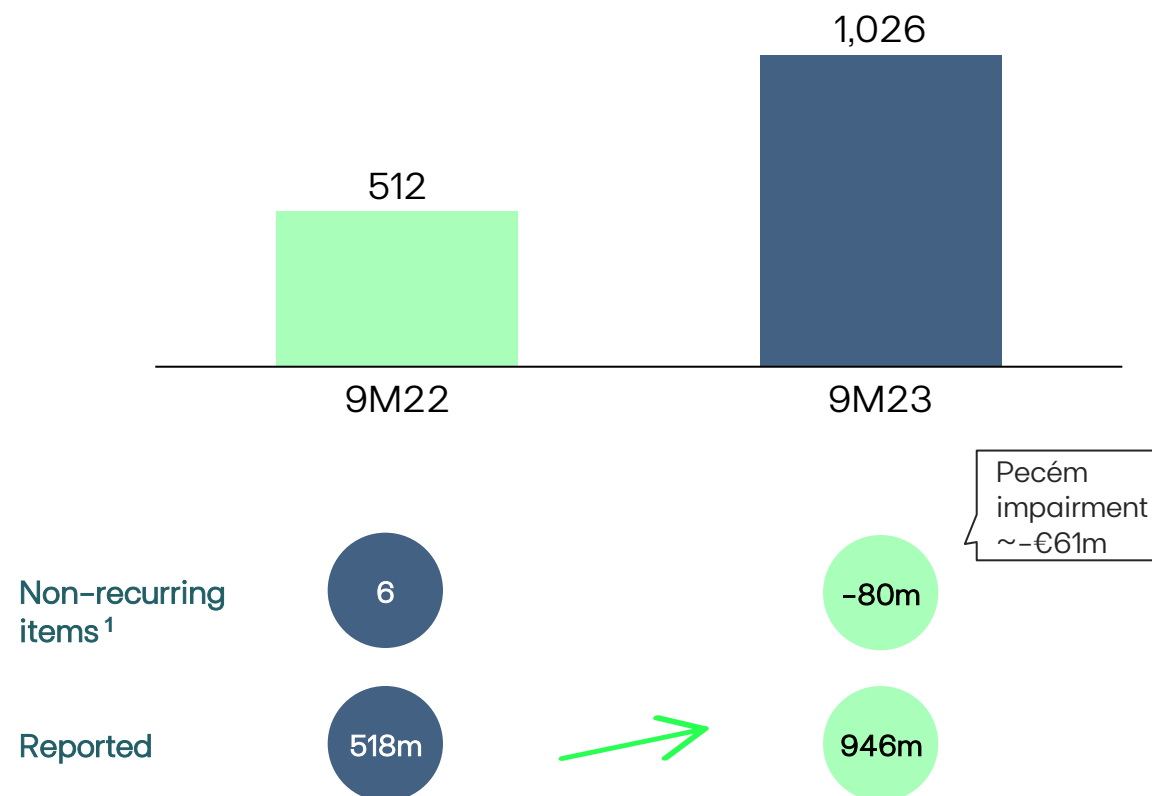
€m

Δ YoY



## Recurring Net Profit

€m

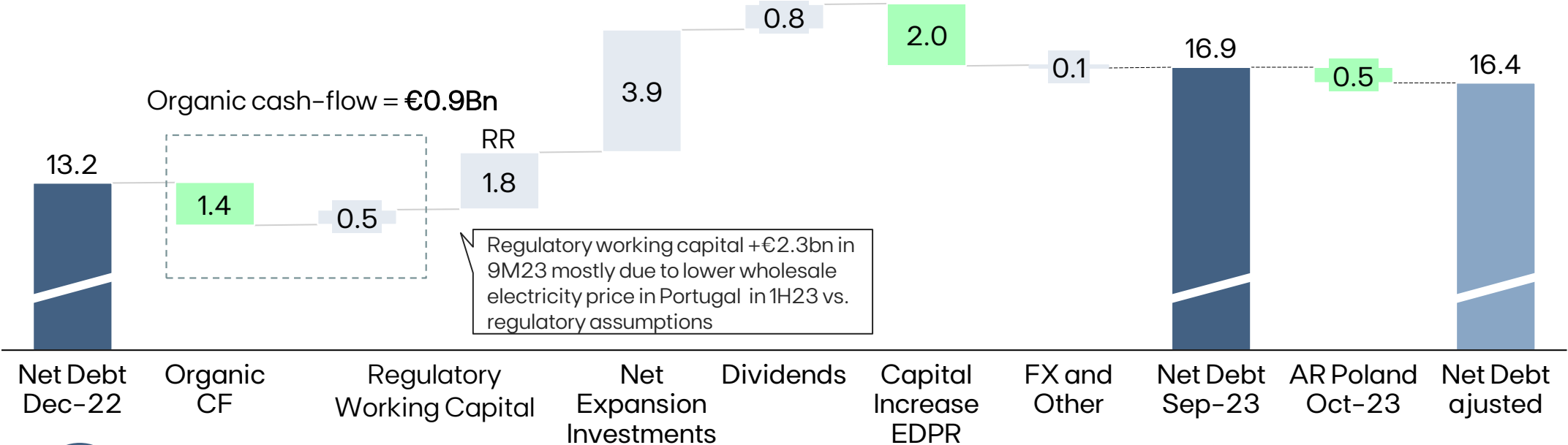


1. Adjustments and non-recurring items impact at net profit level – 9M23: -€61m of Pecém impairment, -€8m Tax Romania, -€7m of PPA cancelation in US and -€4m from liability management; 9M22: €6m from CCGT impairments; 2. Includes CESE

# Net debt Sep-23 impacted by temporary increase of regulatory WC in Portugal, to be securitized in 4Q23; sound credit ratios Net Debt/EBITDA 3.3x

## Change in Net Debt

€ Bn



Net Debt/EBITDA<sup>(1)</sup>

3.4x

3.3x

3.2x

FFO/Net Debt<sup>(2)</sup>

~20%

~19%

~19%

1. Net of regulatory receivables; net debt excluding 50% of hybrid bond issues (including interest); Based on trailing 12 months recurring EBITDA and net debt excluding 50% of hybrid bond issue (including interest); Includes operating leases (IFRS-16); 2. FFO/ND formula consistent with rating agencies methodologies, considering EDP definition of EBITDA Recurring

# We strengthen our strategic targets, reinforcing our ambition to lead the energy transition



Our commitments	Key targets	BP 2021–25	BP 2023–26
Accelerated and sustainable growth	Deployment	~4 GW/year	~4.5 GW/year
	Asset Rotation	€1.6 Bn/year in AR; €0.3 Bn in gains	€1.7 Bn/year in AR; €0.3 Bn in gains
ESG excellence and future-proof organization	Green targets	<b>Coal free</b> by 2025 <b>All Green</b> by 2030	(+) <b>Net Zero</b> by 2040
Distinctive and resilient portfolio	Credit rating	BBB investment grade rating	BBB rating secured, with reiterated commitment
	FFO/ND	>20% FFO/net debt in the short term	>20% FFO/net debt during 2023–26
Superior value creation for all stakeholders	EBITDA	€4.7 Bn by 2025	€5.7 Bn by 2026, €5.3 Bn already by 2024
	Net income <sup>1</sup>	€1.2 Bn by 2025	~€1.4–1.5 Bn by 2026, ~€1.2–1.3 Bn already by 2024
	DPS	Sustainable EPS growth to deliver <b>DPS increase</b>	Dividend floor increased to <b>€19.5 cts</b> in 2024–25, and <b>€20 cts</b> in 2026


1. Net income range represents the incremental contribution of EDP Brasil's delisting tender offer (€0.1Bn)



# Annex

# Macroeconomic indicators for main markets



								
	2022	2023	2022	2023	2022	2023	2022	2023
<b>Inflation (CPI)<sup>1</sup></b>	7.9%	4.7%	8.8%	4.9%	8.1%	3.5%	9.4%	4.7%
<b>Weight of housing and utilities on CPI basket<sup>2</sup></b>	9.6%	-	14.2%	-	36.1%	-	15.3% <sup>3</sup>	-
<b>Deficit, GDP<sup>4</sup></b>	-1.9%	-1.4%	-4.9%	-4.4%	-4.0%	-5.7%	-5.8%	-7.5%
<b>Gross Debt/GDP</b>	114.7%	111.2%	113.6%	112.1%	122.1%	122.9%	88.2%	88.9%
<b>Credit Rating, S&amp;P</b>	BBB+		A		AA+		BB-	

1. Average consumer prices

2. Weight of housing, water, electricity, gas and other fuels (Dec 2022), IMF

3. Based on housing component of IPCA (Dec 2022)

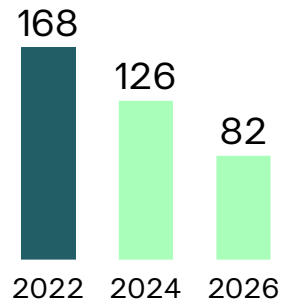
4. General government revenue - General government total expenditure



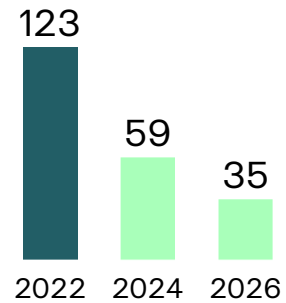
# Main market and macro assumptions



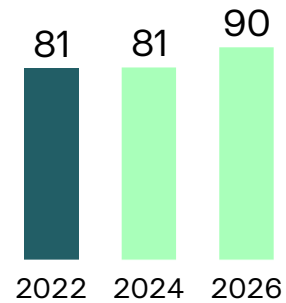
Pool Iberia €/MWh



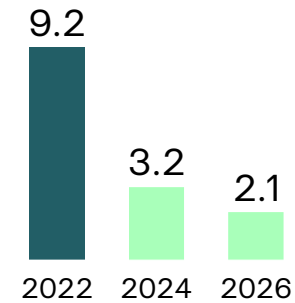
TTF €/MWh



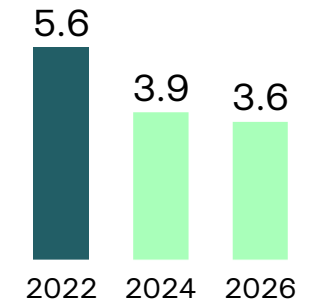
CO<sub>2</sub> €/ton



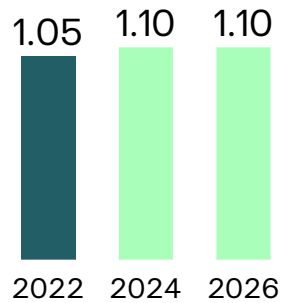
Inflation Europe<sup>1</sup> %



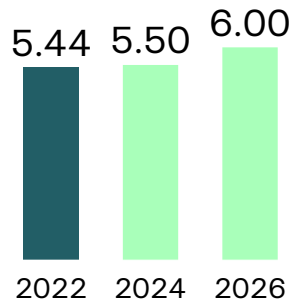
Inflation Brazil %  
Avg. IPCA / IGPM



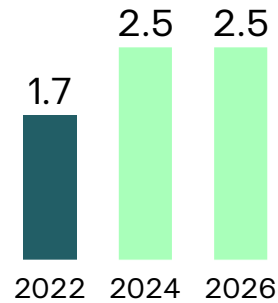
EUR/USD



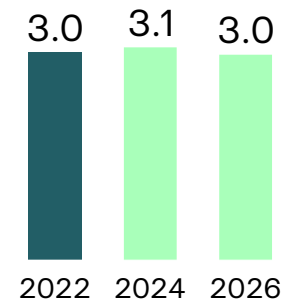
EUR/BRL



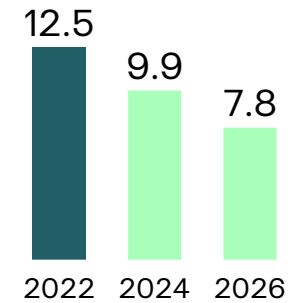
EUR 7Y MidSwap %



USD 7Y Treasuries %



SELIC %



1. Avg. between Portugal, Spain, Luxembourg, France, Belgium, Poland, Romania, Italy, UK, Greece and Hungary



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