

# Credit Investors Presentation

Lisbon, November 2021



# We have started this journey in Renewables over 2 decades ago and are committed to continue to lead the Energy Transition

The logo for EDP, consisting of the lowercase letters 'edp' in a white, rounded, cursive font.

*Leading the energy transition to  
create superior value*

Changing  
Tomorrow

Now ☀️

*By 2025*

**€24 Bn**

CAPEX in energy transition

**4 GW/yr**

renewables deployed

**Double**

solar+wind installed capacity

**Coal free**

*By 2030*

**>50 GW**

renewables additions

**100%**

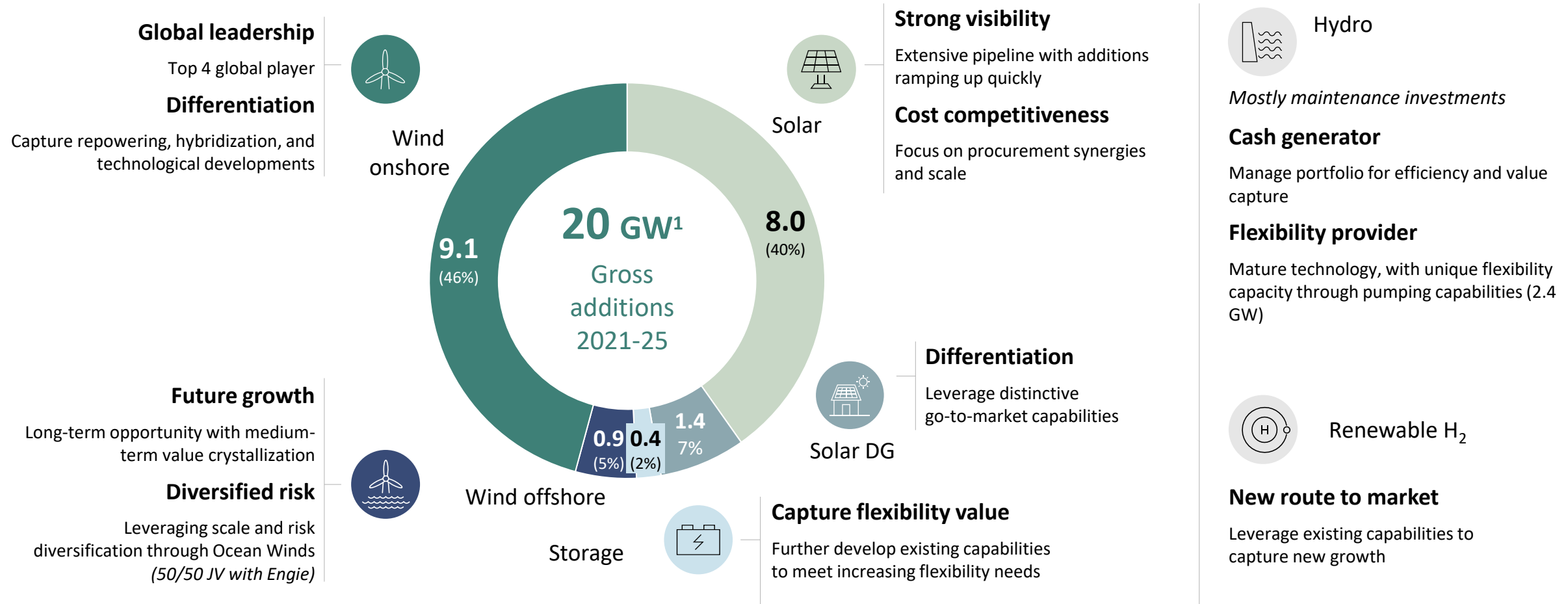
renewables generation

**100%**

energy transition EBITDA

**Carbon neutral**

# We will grow our presence across technologies, with differentiating value propositions



1. EBITDA + Equity GWs

# We have +8.1 GW capacity additions secured (41%) evenly split per geography

## North America

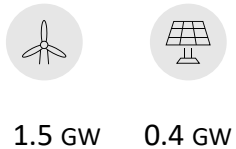
36% secured



3.1  
GW

## LatAm

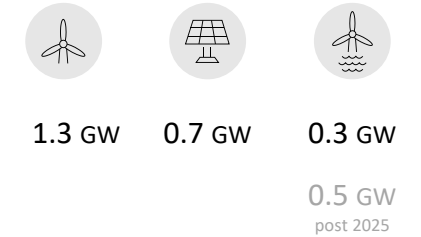
65% secured



1.9  
GW

## Europe

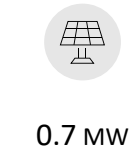
33% secured



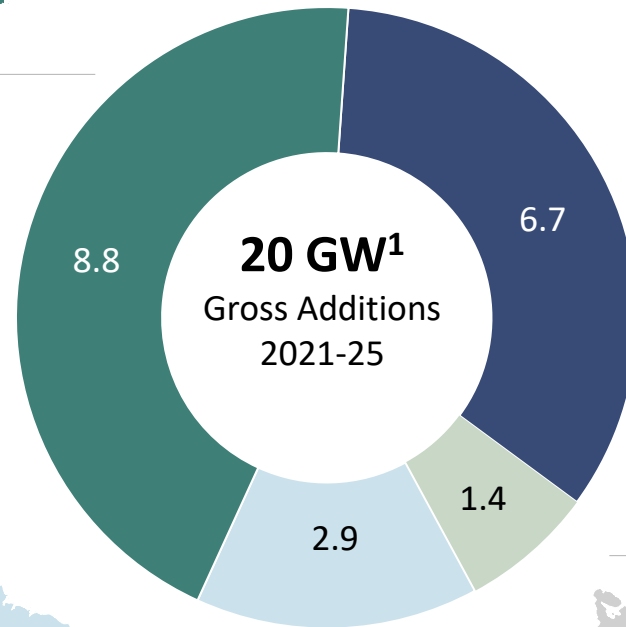
2.3  
GW

## APAC

48% secured



0.7  
GW



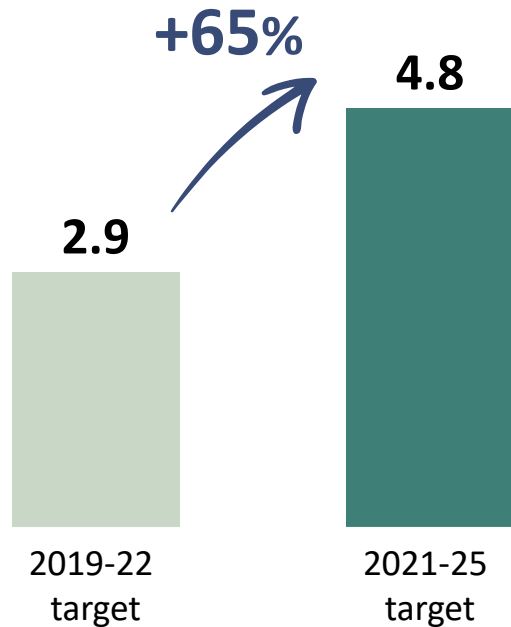
GW  
secured

1. EBITDA + Equity GW

# We will deliver unparalleled investment levels fully aligned with the energy transition

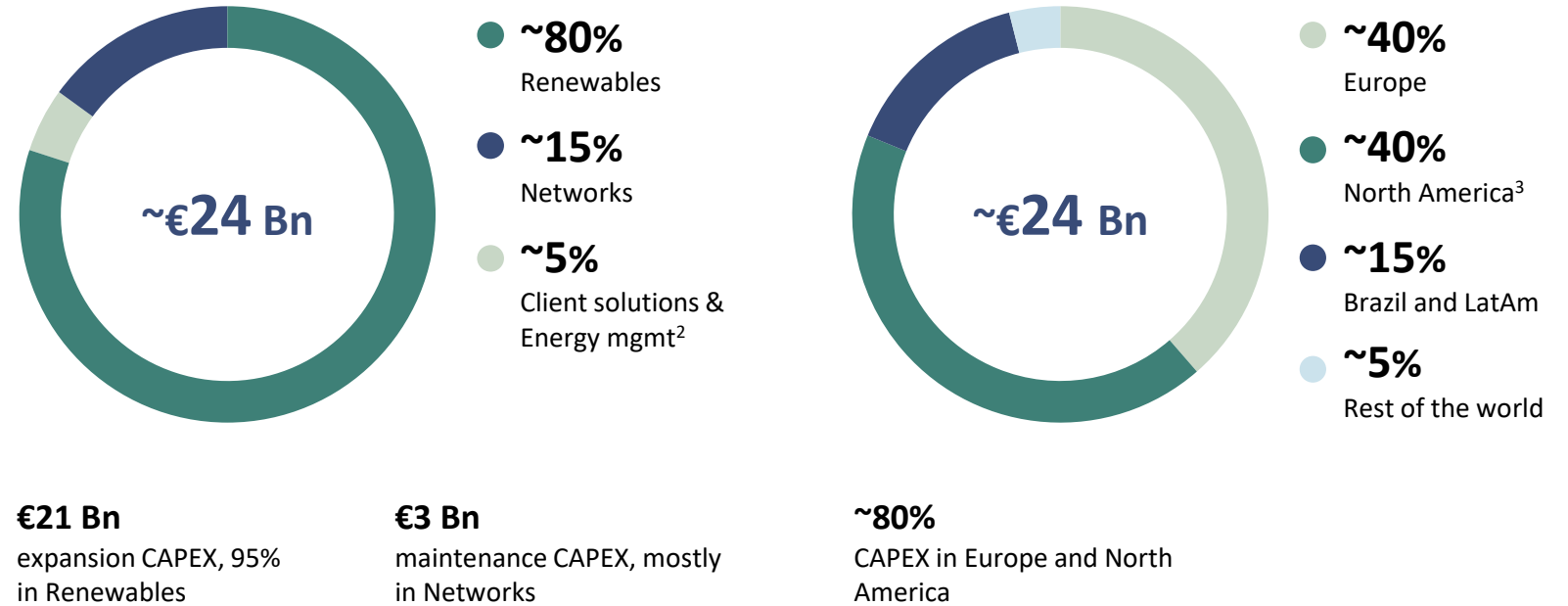
## Significant investment acceleration...

CAPEX<sup>1</sup>, € Bn/yr



## ... with strong focus on Renewables, across key markets in Europe and North America

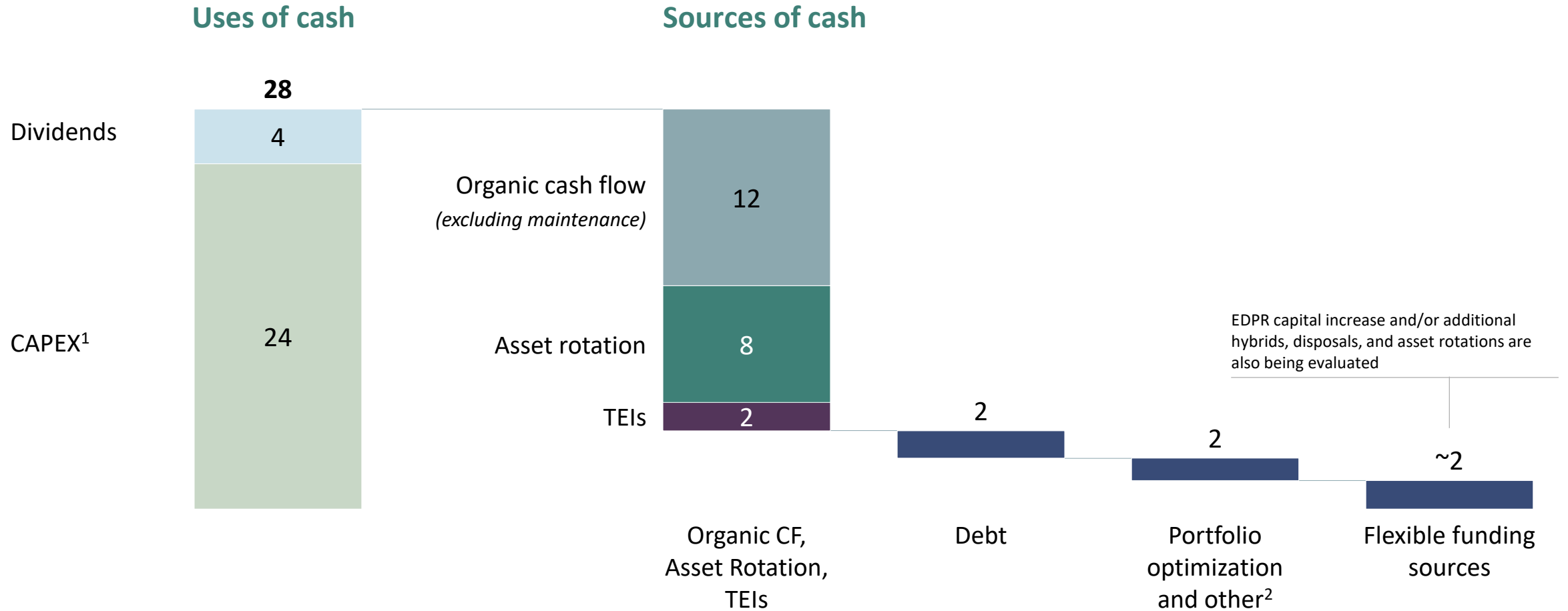
CAPEX<sup>1</sup>, Cumulative, € Bn, 2021-25



1. Includes financial investments  
 2. Includes other and holding CAPEX  
 3. US, Canada, and Mexico

# Our strong step-up in growth and attractive shareholder remuneration will be funded through diversified sources of cash

2021-25. € Bn



1. Includes financial investments;

2. Includes hybrids, regulatory receivables, forex and other

Note: Citi and Morgan Stanley have been retained to advise on the potential financing alternatives

# EDP has secured 8.1 GW whilst maintaining a sound investment approach

## Continued accelerated growth in renewables...

**Strong execution on capacity deployment**

**+2.5 GW<sup>(1)</sup>** of Wind & Solar Gross capacity added over the last 12 months

**+2.7 GW** Capacity U/C as of Sep-21

**+8.1 GW<sup>(2)</sup>** Secured for 2021-2025

**LT contracts secured:**

**75%**  
of 2021-23 target

**41%**  
of 2021-25 target





**+4.1 GW** PPAs under neg. & shortlisted

 2.8 GW

 1.1 GW

 0.2 GW

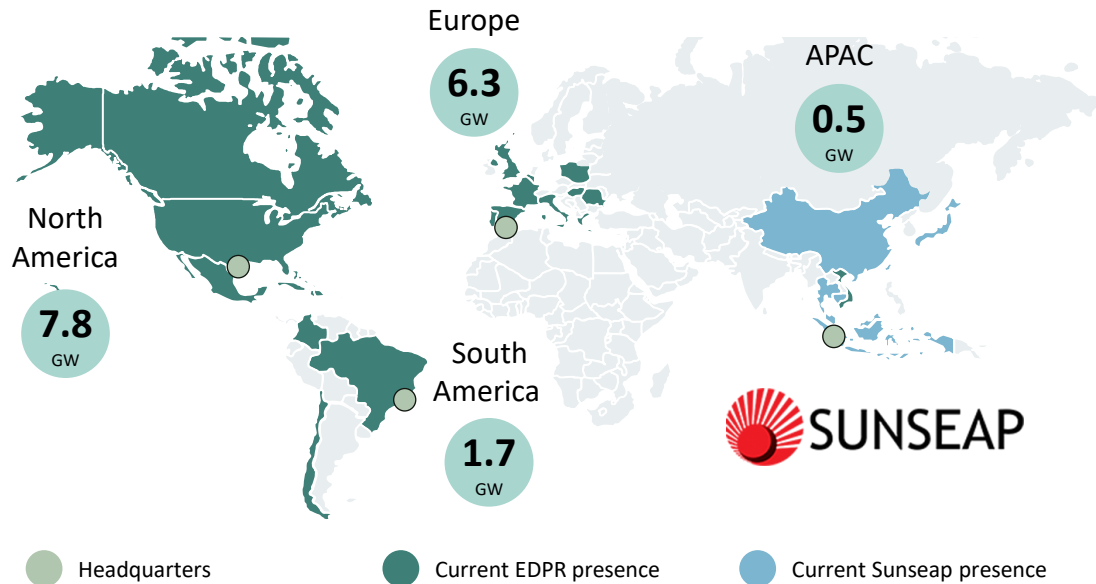
## ... maintaining a selective and disciplined investment approach

	Target	Actual
 IRR/ WACC	>1.4x	~ <b>1.45x</b>
 IRR to WACC spread	>200bps	~ <b>300bps</b>
 NPV/ Capex	>25%	~ <b>35%</b>
 % NPV contracted	>60%	~ <b>60%</b>

(1) EBITDA MW + Equity MW | (2) including Sunseap

# With Sunseap, we set up a 4<sup>th</sup> regional hub, a platform for long term growth in APAC, becoming a true global clean energy player

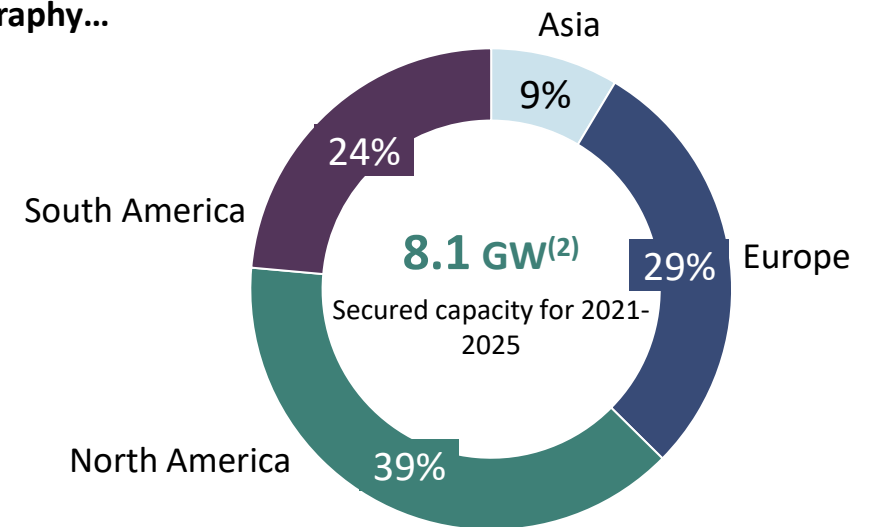
## Global presence through EDPR's installed capacity<sup>(1)</sup>...



- ✓ Enterprise value of **€870M**
- ✓ **0.7 GW operational and secured capacity**, with a pipeline of 5 GW throughout 9 markets (Singapore, Vietnam & Others)
- ✓ **LT Contracted (~20-year)**, avg price ~ €75/MWh

## ... with a focus on accelerated and diversified growth

### By Geography...



### By Technology...



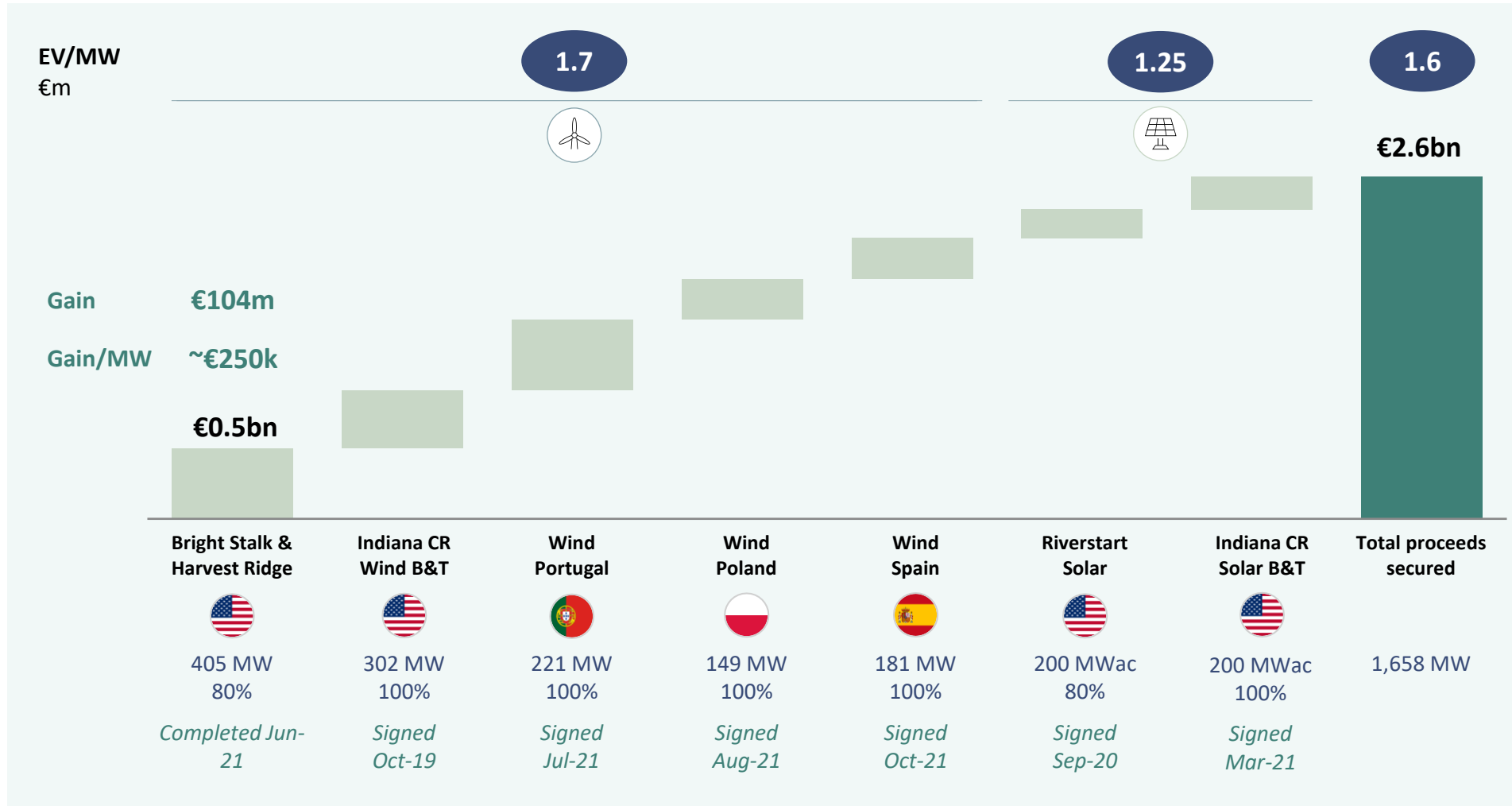
(1) EBITDA + Equity GW operating and under construction as of Sep-21. Capacity reported in MWac | (2) EBITDA + Equity GWs and including Sunseap



# Asset rotation execution has been strong with €2.6bn of proceeds secured at attractive multiples and €0.15bn<sup>(1)</sup> gains already booked



## Strong AR execution at attractive multiples, showcasing the value of EDPR projects



● €2.6bn of proceeds, ~33% of €8bn AR target for 2021-25

● Attractive multiples with avg. €1.6m/MW (Wind @ €1.7m and Solar @ €1.25m/MW)

● On track to deliver >€300m of capital gains in 2021. Upsize will depend on exact timing of regulatory approvals and closing of each transaction

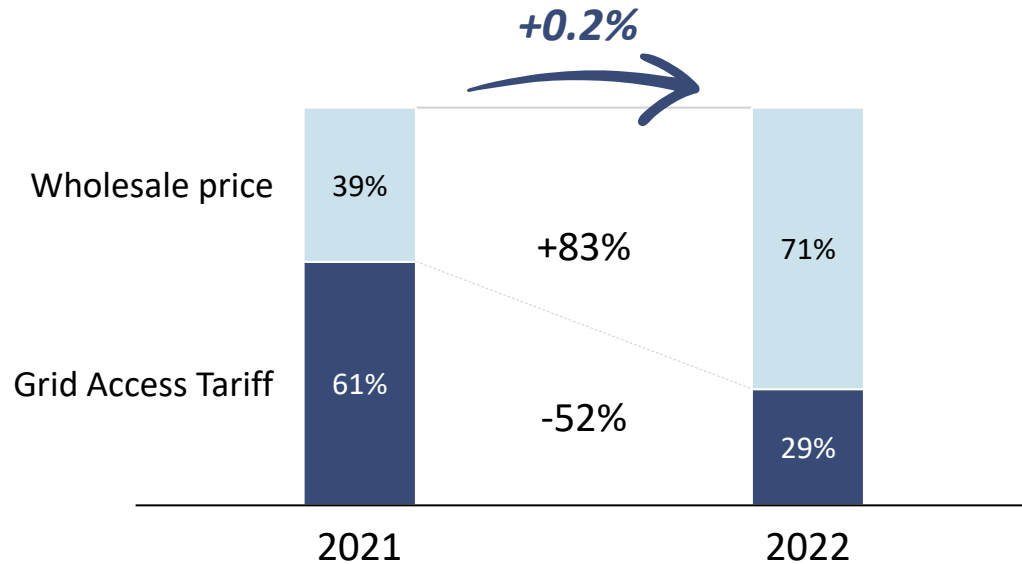
1. Gains of €151m in 9M21 include i) €104m from Jun-21 US asset rotation deal, ii) €16m contingent price review of Offshore France sell-down transactions iii) €2m price adjustment of Rosewater B&T and iv) €30m for Mayflower earn-out

# Despite higher wholesale prices, regulatory framework in Portugal provides stable prices for residential and continuous system debt decline



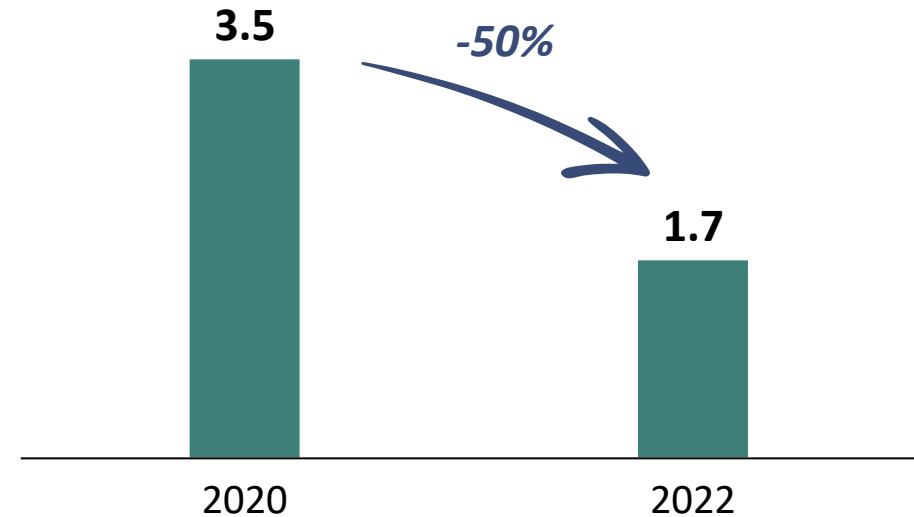
## End-users Regulated Electricity Tariff

€/MWh; Low-voltage clients (residential & SMEs)



## Portugal Electricity System Debt

€ Bn



- Renewables & cogen generation at **stable feed-in tariffs** <sup>(1)</sup> cover **~110% of Low-voltage consumption**
- Grid access tariff -52% due to **spread inversion between feed-in tariffs (~€90/MWh) and wholesale price** <sup>(2)</sup>

- Stable end-users regulated tariffs for residential together with a **50% system debt decline in 2 years**
- Main contribution from **improved spread between stable feed-in tariffs and higher wholesale prices**

Source: ERSE | (1) ~22TWh/Year at ~€90/MWh (2) avg. wholesale electricity price assumption up from €54/MWh in 2021 to €105.5/MWh in 2022

# Significant developments in Brazil's portfolio reshuffling provide value crystallization and improve growth prospects

## Transmission Asset Rotation Strategy

	Acquisition Celg-T	Asset Rotation Actis
Enterprise value	R\$1,977M	R\$1,329M
Annual allowed Revenue (RAP <sup>2</sup> )	R\$223M	R\$131M
<b>EV/RAP Multiple</b>	<b>8.9</b>	<b>10.2</b>
Line's extension	756km	439km
Substations	14	3



Celg-T region (Goiás) with **strong electricity demand growth**, requiring significant transmission investments



**Two additional greenfield transmission projects added in 2021** (463km, RAP R\$47M<sup>(1)</sup>)



Advanced negotiations for **disposal of 0.5 GW net Hydro assets** (Jari, Cachoeira and Mascarenhas)



EDP Brasil additional **share buyback program** (~4% of share capital) announced in Oct-21

(1) Composed by Lots 1 in Acre and Rondonia States and 18 in Maranhão State

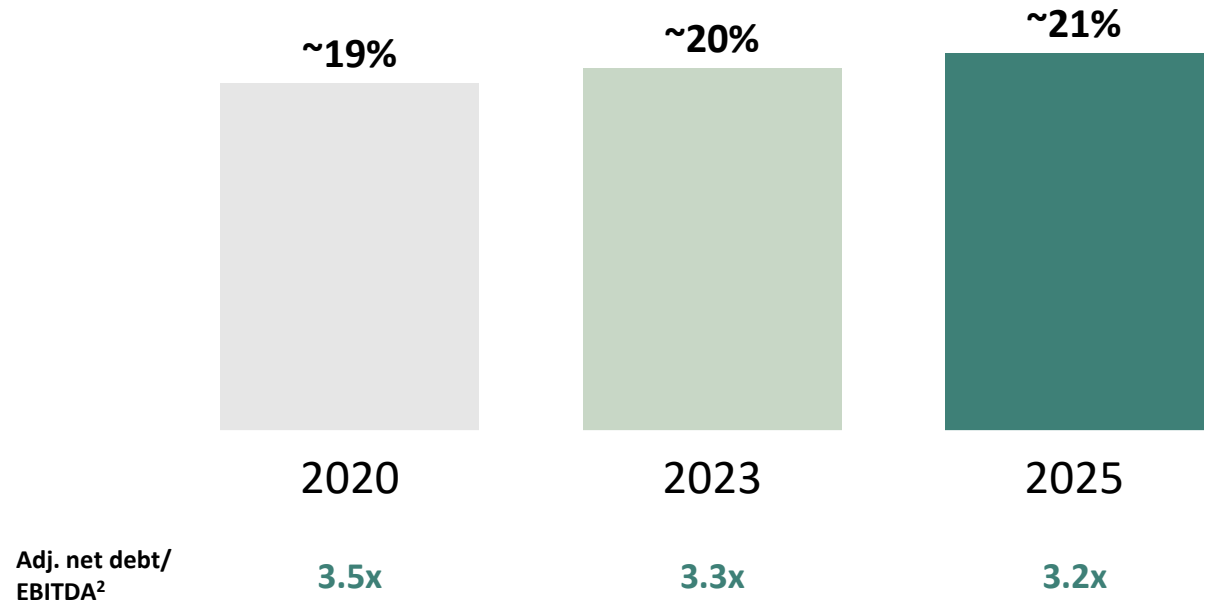
# We are fully committed towards sustaining a solid investment grade rating (BBB)

## We are targeting a solid balance sheet...

- ✓ Achieved BBB rating from S&P (March-21) and Fitch (May-21)
- ✓ Positive outlook from Moody's (May-21)
- ✓ Improve FFO/net debt and reach >20% in the short term
- ✓ Strengthen cash flow generation
- ✓ Flexibility to further reinforce balance sheet (e.g., hybrids, asset rotation, portfolio optimization)

## ... maintaining a sustainable leverage

FFO/Net Debt<sup>1</sup>



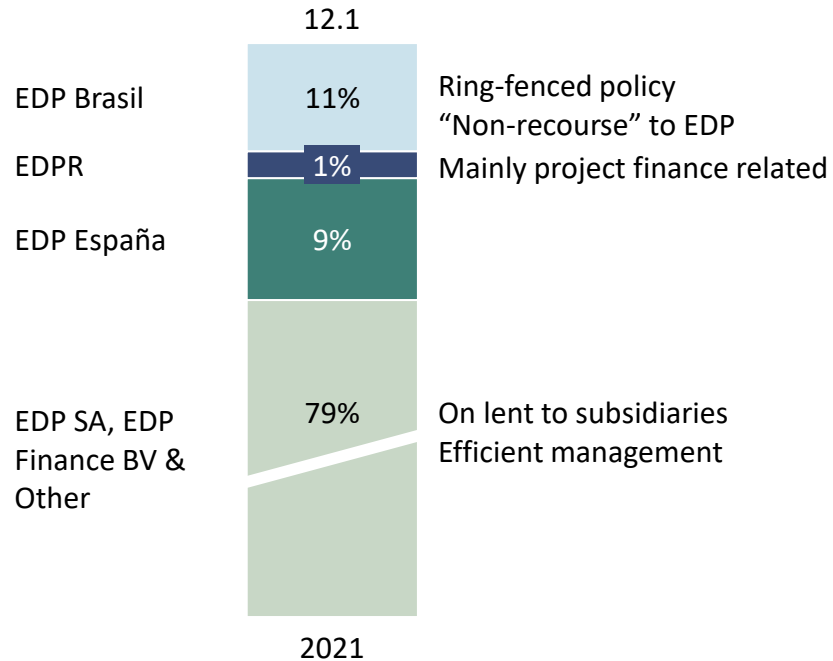
1. FFO/ND formula consistent with rating agencies methodologies, considering EDP definition of EBITDA Recurring

2. Financial net debt + Leases - Regulatory receivables / Recurring EBITDA (excluding one-offs)

# Funding primarily raised at Holding level, enhancing efficient debt management

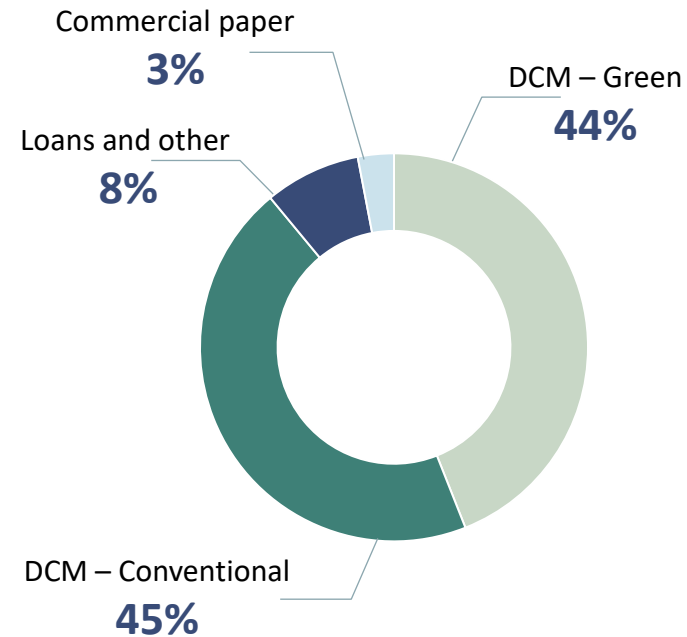
## EDP Consolidated net debt position at 9M21

€ Bn



## Sources of debt funding

9M21, %



### Capital Markets – 89%

- ✓ Tap most efficient markets (currently DCM)
- ✓ Green Funding aligned with Sustainability strategy

# Since 2018, EDP has issued EUR 6.4b in Green Bonds, in line with EDP's sustainability strategy

## EDP's green bond issuances

Oct.2018:

**EUR 600m** 1.875% 7Y Green Bond (**1<sup>st</sup> Green issuance**)

Jan.2019:

**EUR 1,000m** 4.496% NC5.25 Green Hybrid (**1<sup>st</sup> Green Hybrid**)

Sep.2019:

**EUR 600m** 0.375% 7Y Green Bond

Jan.2020:

**EUR 750m** 1.7% NC5.5 Green Hybrid

Apr.2020:

**EUR 750m** 1.625% 7Y Green Bond

Sep.2020:

**USD 850m** 1.71% Long-7Y Green Bond (**1<sup>st</sup> USD Green**)

Jan.2021:

**EUR 750m** 1.875% NC5.5 Green Hybrid

Sep.2021:

**EUR 750m** 1.50% NC5.5 and **EUR 500m** 1.875% NC8 Green Hybrids

**Total: EUR 6.4 billion**



**EUR 8.2bn**

Total capacity  
@ YE2020



**EUR 1.8bn**

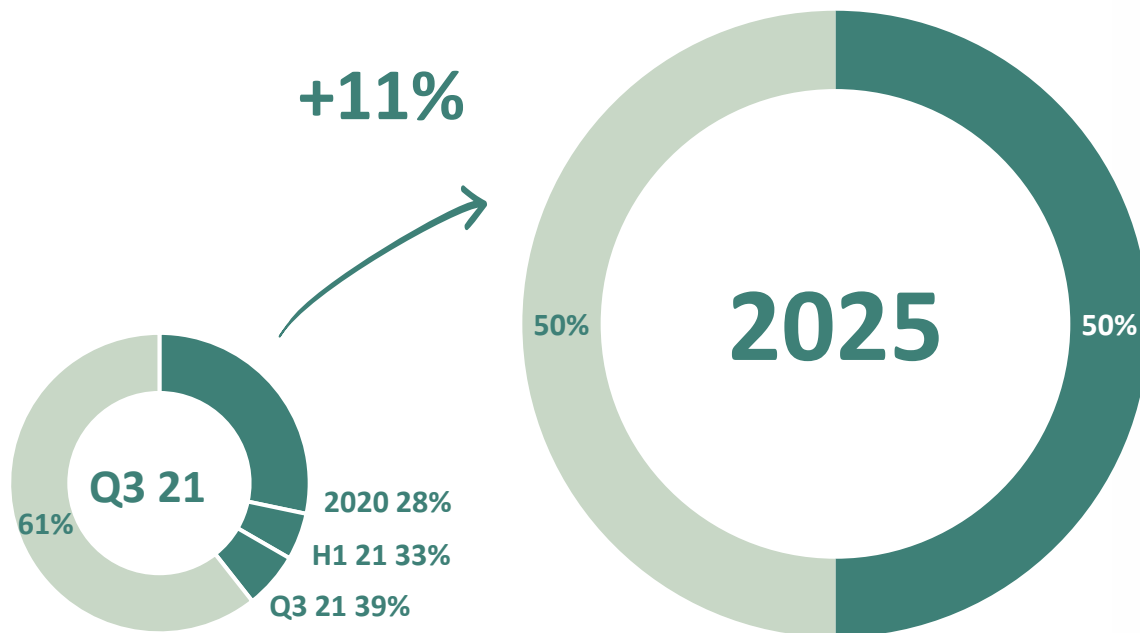
Capacity left

*We expect capacity to progressively increase over the coming years, supported by EDP's renewables growth strategy*

**EDP is currently working on updating its Green Bond Framework considering the new EU Taxonomy**

# EDP's funding portfolio will increasingly reflect its commitment to sustainability

## Share of sustainable funding



> € 6bn already placed in Green Bond format, aligned with our Sustainability Strategy



Continued investment in Renewables and sustainable activities



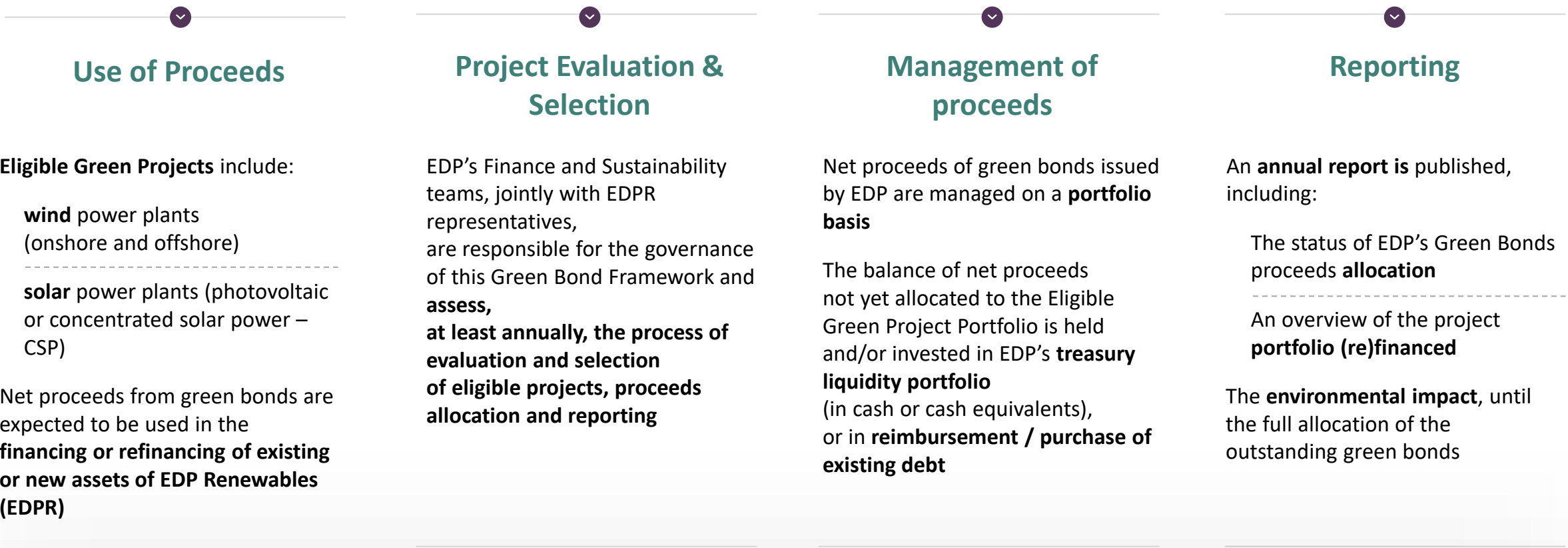
Leveraging on growing investor base and strong appetite with no capital restrictions



Capture competitive cost of green / sustainable funding (~5bp)

Sustainable financing may be driven not only by green bonds but also by sustainability-linked instruments

# EDP's Green Bond Framework (2018)



## Use of Proceeds

Eligible Green Projects include:

**wind** power plants  
(onshore and offshore)

**solar** power plants (photovoltaic  
or concentrated solar power –  
CSP)

Net proceeds from green bonds are expected to be used in the **financing or refinancing of existing or new assets of EDP Renewables (EDPR)**

## Project Evaluation & Selection

EDP's Finance and Sustainability teams, jointly with EDPR representatives, are responsible for the governance of this Green Bond Framework and **assess, at least annually, the process of evaluation and selection of eligible projects, proceeds allocation and reporting**

## Management of proceeds

Net proceeds of green bonds issued by EDP are managed on a **portfolio basis**

The balance of net proceeds not yet allocated to the Eligible Green Project Portfolio is held and/or invested in EDP's **treasury liquidity portfolio** (in cash or cash equivalents), or in **reimbursement / purchase of existing debt**

## Reporting

An **annual report** is published, including:

The status of EDP's Green Bonds proceeds **allocation**

An overview of the project **portfolio (re)financed**

The **environmental impact**, until the full allocation of the outstanding green bonds



**Second Party Opinion<sup>1</sup> from Sustainalytics** states that EDP's GBF aligns with the four core components of the Green Bond Principles<sup>2</sup> established in 2018

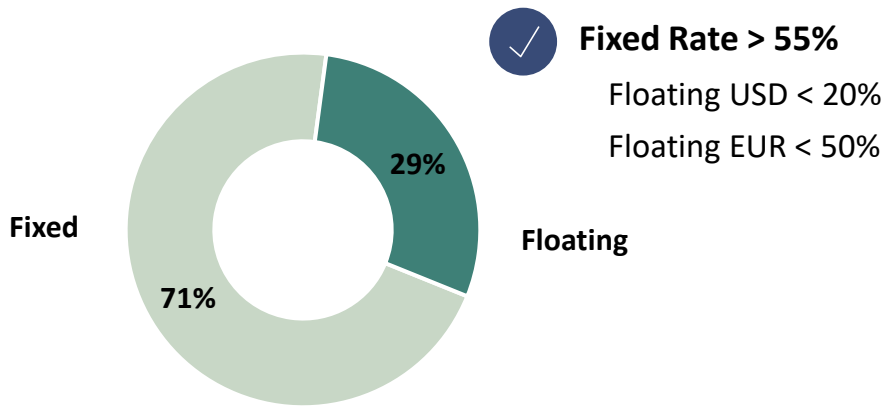
1 – The SPO is available in EDP's website: [https://www.edp.com/sites/default/files/portal.com/documents/edp\\_green\\_bond\\_spo\\_final.pdf](https://www.edp.com/sites/default/files/portal.com/documents/edp_green_bond_spo_final.pdf); 2 – <https://www.icmagroup.org/green-social-and-sustainability-bonds/green-bond-principles-gbp/>;



# EDP actively manages interest rate and Forex risks within existing risk policies

## Debt by Interest Rate type, %<sup>1</sup>

(%)

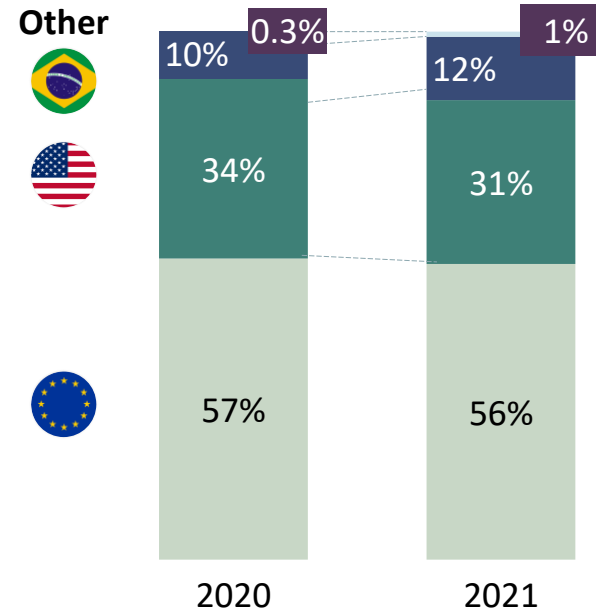


## FX Policy

Prioritize funding in the same currency of activities

## Avg nominal debt by currency <sup>1</sup>

(%)

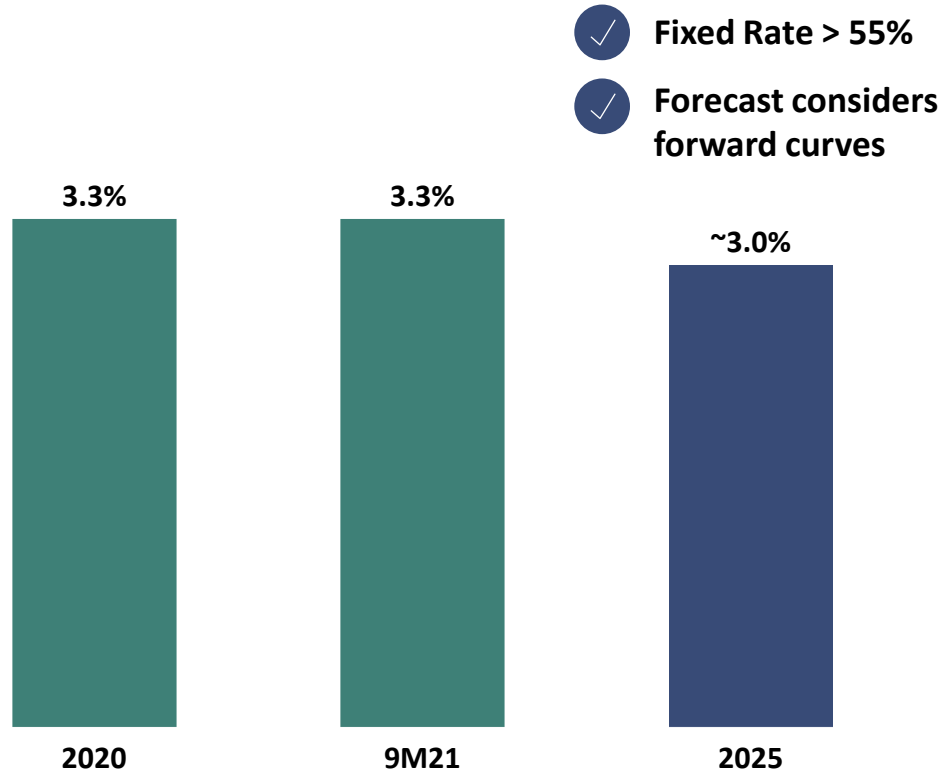


At 9M21, 71% of EDP financial debt was at fixed rates, in line with existing interest rate policies

# Continued reduction in average cost of debt as we continue to actively manage our debt to benefit from a low rates environment



## EDP average Cost of Debt evolution



## Bonds issued

	Amount	Coupon	Maturity	
Jan-21 (hybrid)	€750m	1.875%	2081	🌱
Sep-21 (hybrid)	€750m	1.5%	2082	🌱
Sep-21 (hybrid)	€500m	1.875%	2082	🌱

## 2022-2024 Bond maturities

	Amount	Coupon
Jan-22	€858m	2.625%
Mar-23	€488m	2.375%
Set-23	€462m	1.875%
Nov-23 (Viesgo)	€500m	2.375%
Feb-24	€744m	1.125%
Jul-24	USD 1,000m	3.625%

Continued reduction in average cost of debt supported by active debt management policy and low rates environment

# Annexes



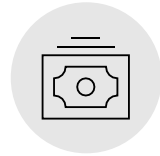
# We have a prudent financial policy with a centralized management, supporting a solid investment grade rating



## Rating

**Target BBB rating in the short term**, by improving credit metrics and overall portfolio quality

**>20%**  
FFO/net debt<sup>1</sup> 2025



## Green financing

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

**50%**  
**sustainable financing**  
in 2025



## Active debt and liquidity management

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

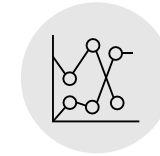
**12-24 months**  
of refinancing ahead



## Centralized and diversified funding

**Centralized funding management**, except for ring-fenced Brazil/LatAm and project finance in renewables

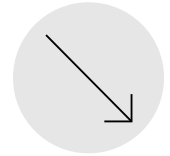
**>80%**  
funding needs raised at Holding level



## Interest and foreign exchange risks

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

**>55%**  
of fixed rate debt



## Cost of debt

Continued **reduction in average cost of debt**, actively managing debt to benefit from low-rates environment

**-40 bps**  
decrease in cost of debt by 2025

1. FFO/ND formula consistent with rating agencies methodologies, considering EDP definition of EBITDA Recurring

# Strategic commitments on track as we step up to the challenge to deliver superior value creation



Accelerated and sustainable growth

## Key figures and targets

€24 Bn CAPEX in energy transition<sup>(1)</sup>

20 GW gross additions<sup>(1)</sup>

€8 Bn asset rotation

Improve financial strength

## 9M21

€2.7 Bn (95% in RES + Networks)

8.1GW secured (41%) with 3.9 GW added YTD+U/C

~€2.6 Bn signed (~33% target)

~-€0.1 Bn Net Det



Future-proof organization

Contracting major equipment **upfront at fixed price**

Scale-up organization to **support growth**



ESG excellence and attractive returns

Coal free by 2025

Carbon neutral by 2030

€0.19/share dividend floor

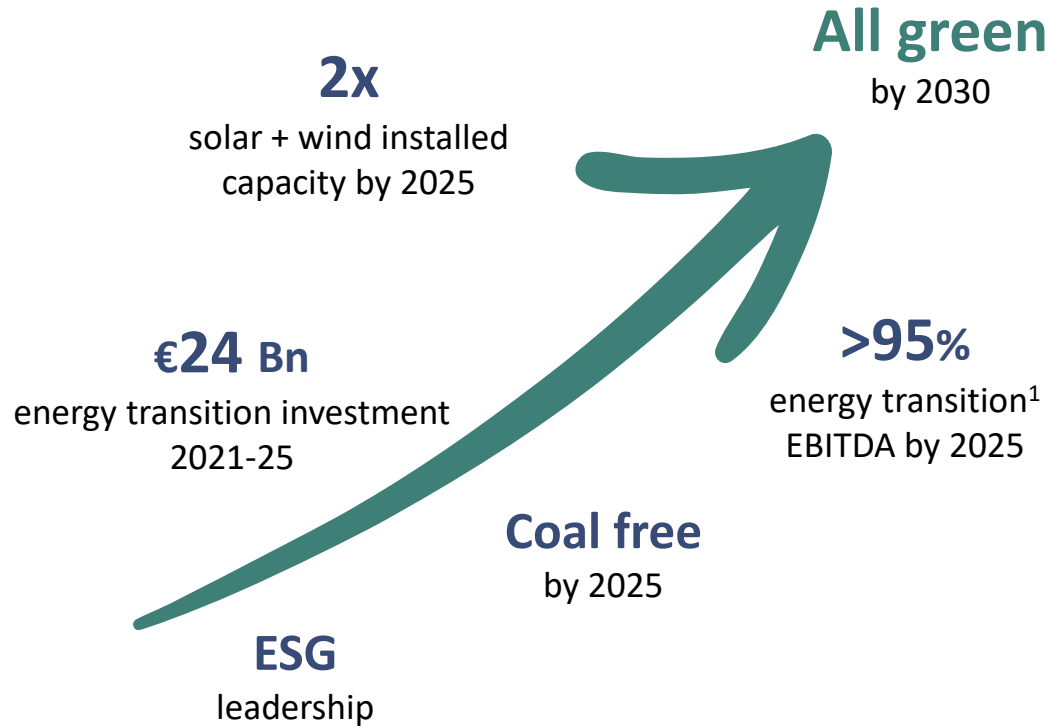
Coal Revenues 5%

76% Renewables Generation

€0.19/share dividend paid April 26<sup>th</sup>

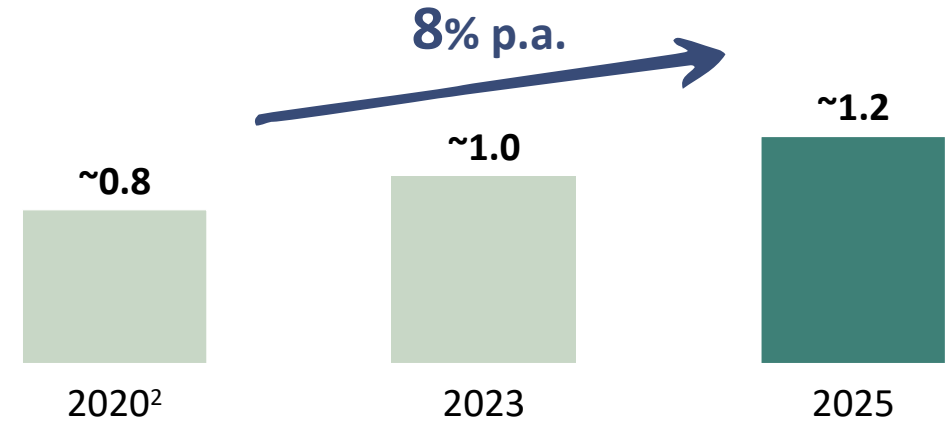
# We will deliver superior value to our shareholders

## Superior green positioning and accelerated growth...



## ... delivering strong earnings growth...

Net income<sup>2</sup>, € Bn



## ... with an attractive dividend policy

**€0.19/share**  
dividend floor

**75-85%**  
target payout

**Sustainable EPS growth**  
to deliver  
**DPS increase**

1. EDP EBITDA excluding thermal generation  
2. Recurring Net income excluding contribution from disposed portfolios in 2020 (6 hydro plants, B2C portfolio and 2 CCGTs in Spain); CESE as recurring cost