

# Public Power Corporation

**Corporate Presentation** 

May 2021

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## Contents



1. PPC at a glance
 2. Key highlights
 3. Conclusion



## 1. PPC at a glance

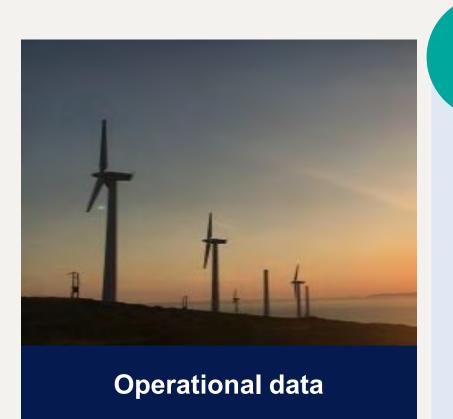




## **PPC** at a glance

PPC is the largest power generation company, distribution monopolist, and biggest power supply provider in Greece

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## **Generation**<sup>1</sup>

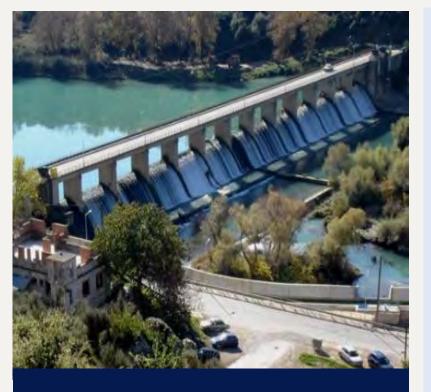
Installed Capacity **11.0GW** 



Electricity Generated (FY2020) **21TWh** 

Market position / share (Dec-20)<sup>3</sup> #1 / 51%

## Financials (FY2020)



Financial and market data

Revenue / Recurring EBITDA €4.7bn / €886m<sup>5</sup>

**Net leverage / FY23 Target** 3.7x / <3.5x

- (1) Includes Generation and Mining and other subsidiary companies (incl. PPCR)
- (2) Includes Distribution and HEDNO. PPC's distribution assets are owned at PPC S.A. level and operated by the 100% owned subsidiary, HEDNO
- (3) Market share as at Dec-20, Interconnected System only
- (4) Market share in the interconnected system including Universal Service Supplier customers as of Dec-2020 (Source: Energy Exchange)



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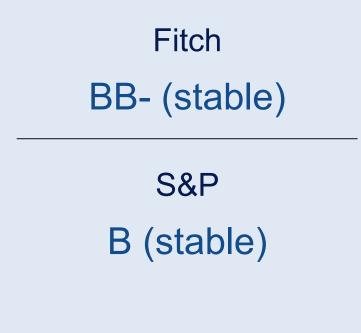
## Distribution<sup>2</sup>

**Regulated Asset Base** ~€3bn

**Distribution Network** >242,000km

Market position / share (Dec-20) #1 / 100%

## **Corporate ratings**





## Supply

Customers

~ 6 m

**Electricity Supplied 33TWh** 

Market position / share (Dec-20)<sup>4</sup> #1 / 67%

## **Shareholder information**



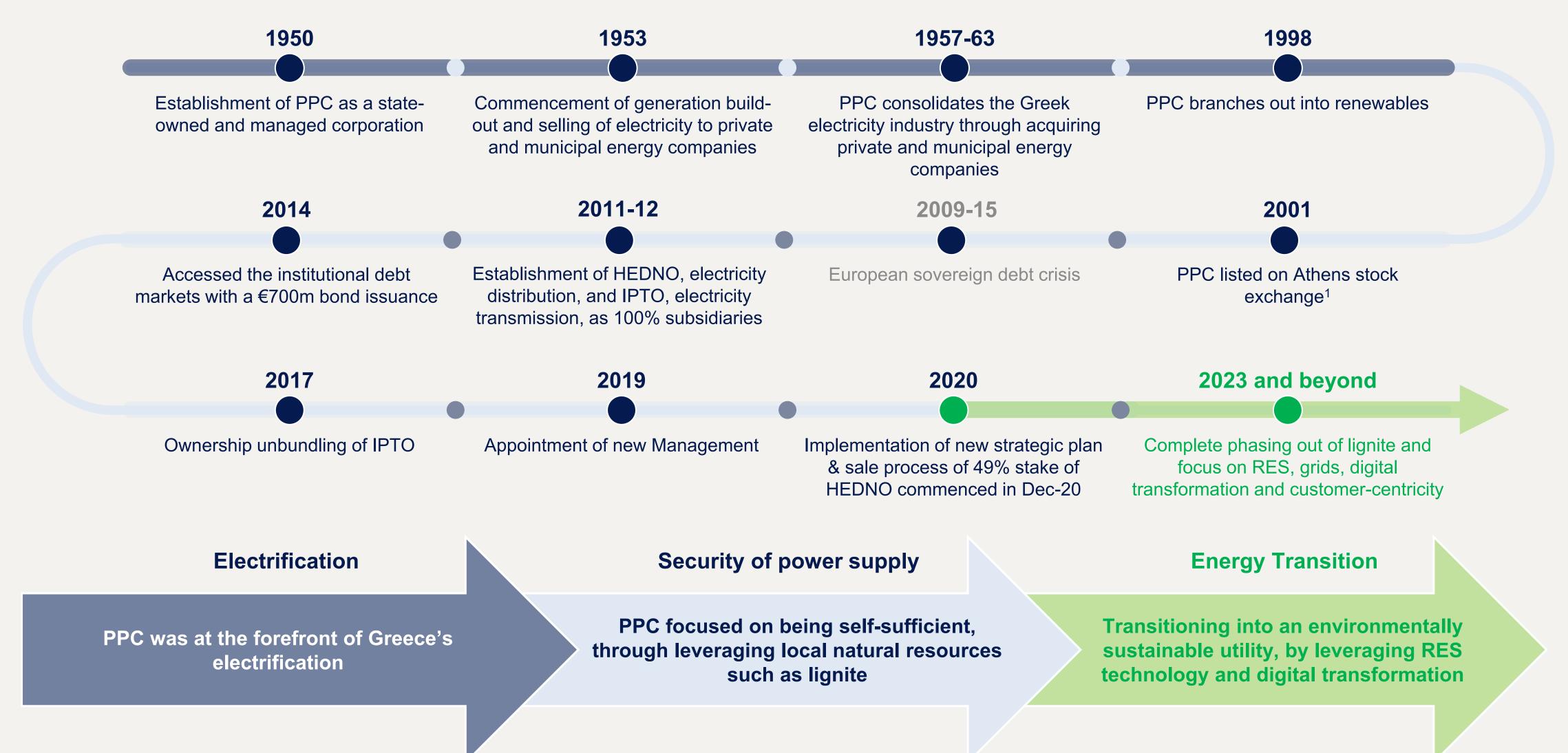
(5) Excludes the provision of €35.8 m for personnel's severance payment (negative impact), the one-off charge of € 74.3m in total of electricity suppliers and RES and COGEN generators for RES account (negative impact) and an extraordinary item of €44.8 m for the credit invoice for 2012-2019 gas procurement cost (positive impact),

(6) As at 20 Apr. 2021

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## **PPC's history**

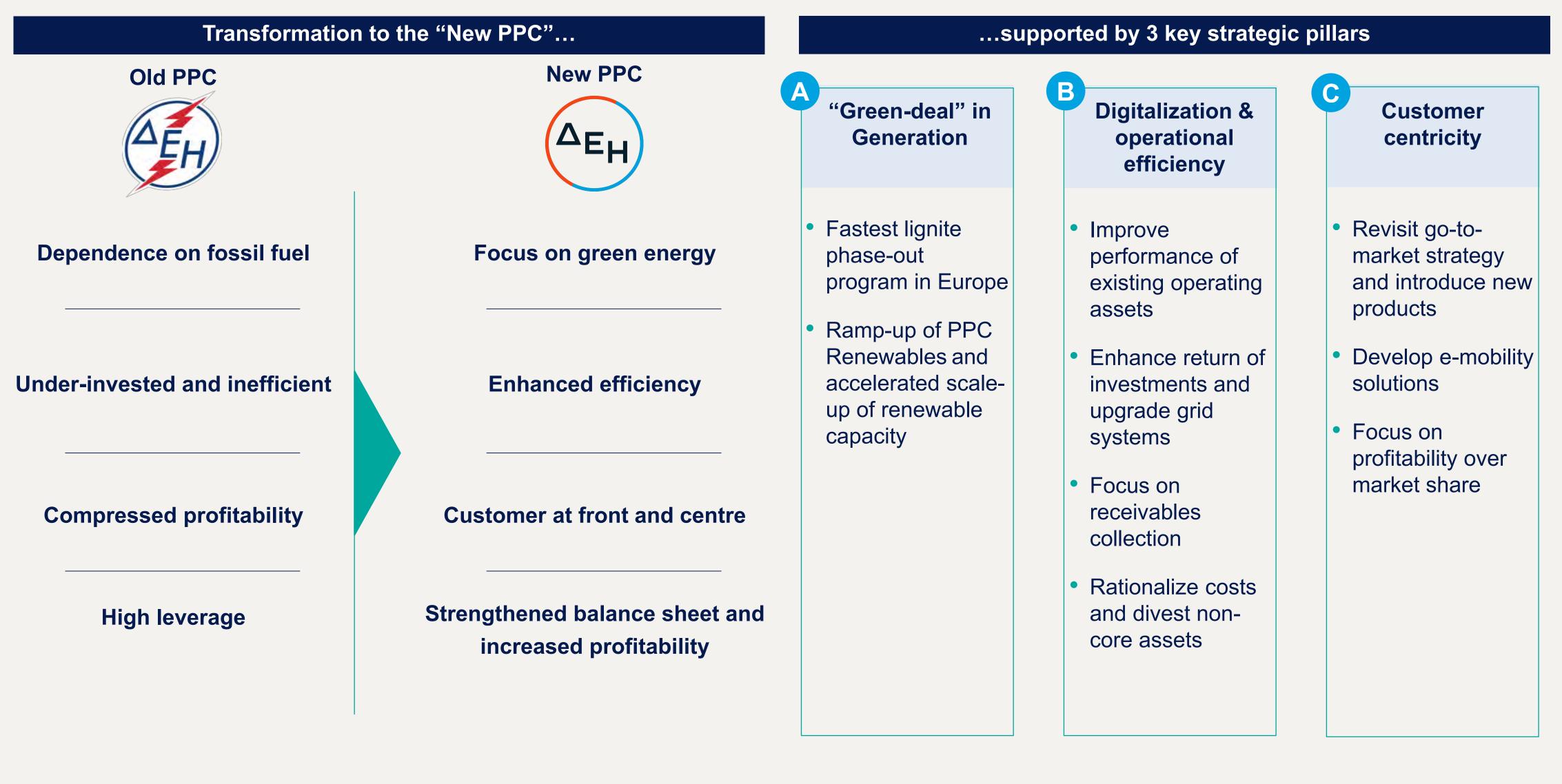
## PPC has been at the forefront of Greece's power industry, and is focused on driving its shift to a greener future



(1) In 2001, 34% of PPC share capital was offered in initial IPO with state ownership remaining at 66%. Subsequent public offerings in 2002 and 2003 resulted 15% additional share capital in the free float with State Ownership at 51%



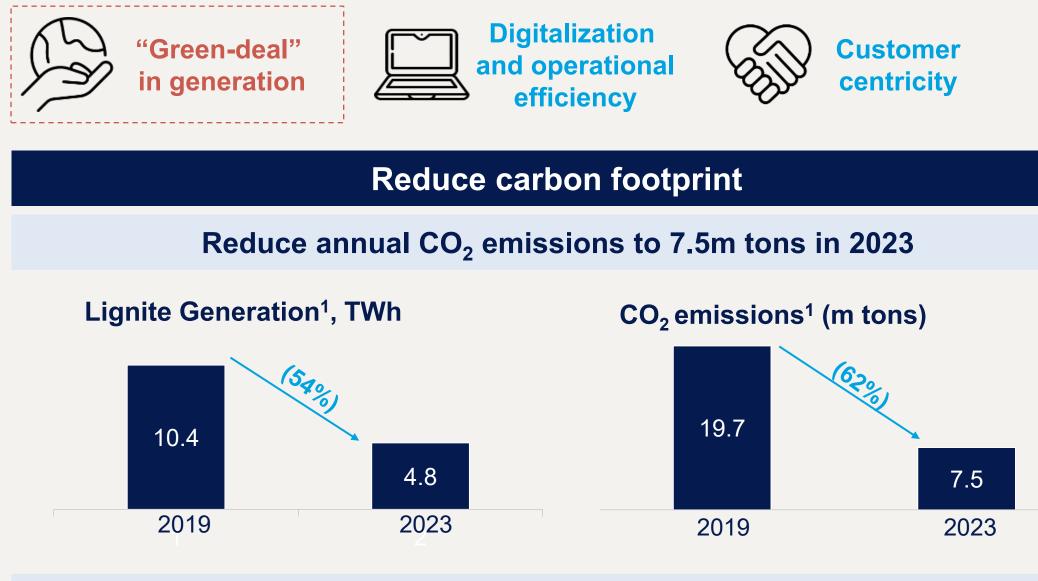
# PPC is transforming into a financially & environmentally sustainable, modern digital utility with a vision supported by three core pillars





## "Green-deal" in generation

Rapid de-lignitization and RES capacity ramp up





(1) Refers to Interconnected System. Plan to reduce CO<sub>2</sub> emissions of Interconnected and Non-interconnected Islands by 40% by 2022 as part of Sustainability linked framework (2) Including PPC's participation in JVs of c. 63MW as of April 2021



.5GW RES

capacity







## Focus on RES

### Redeploy capital in RES to shift generation mix towards sustainable sources

### Partnerships to accelerate scale up RES capacity:

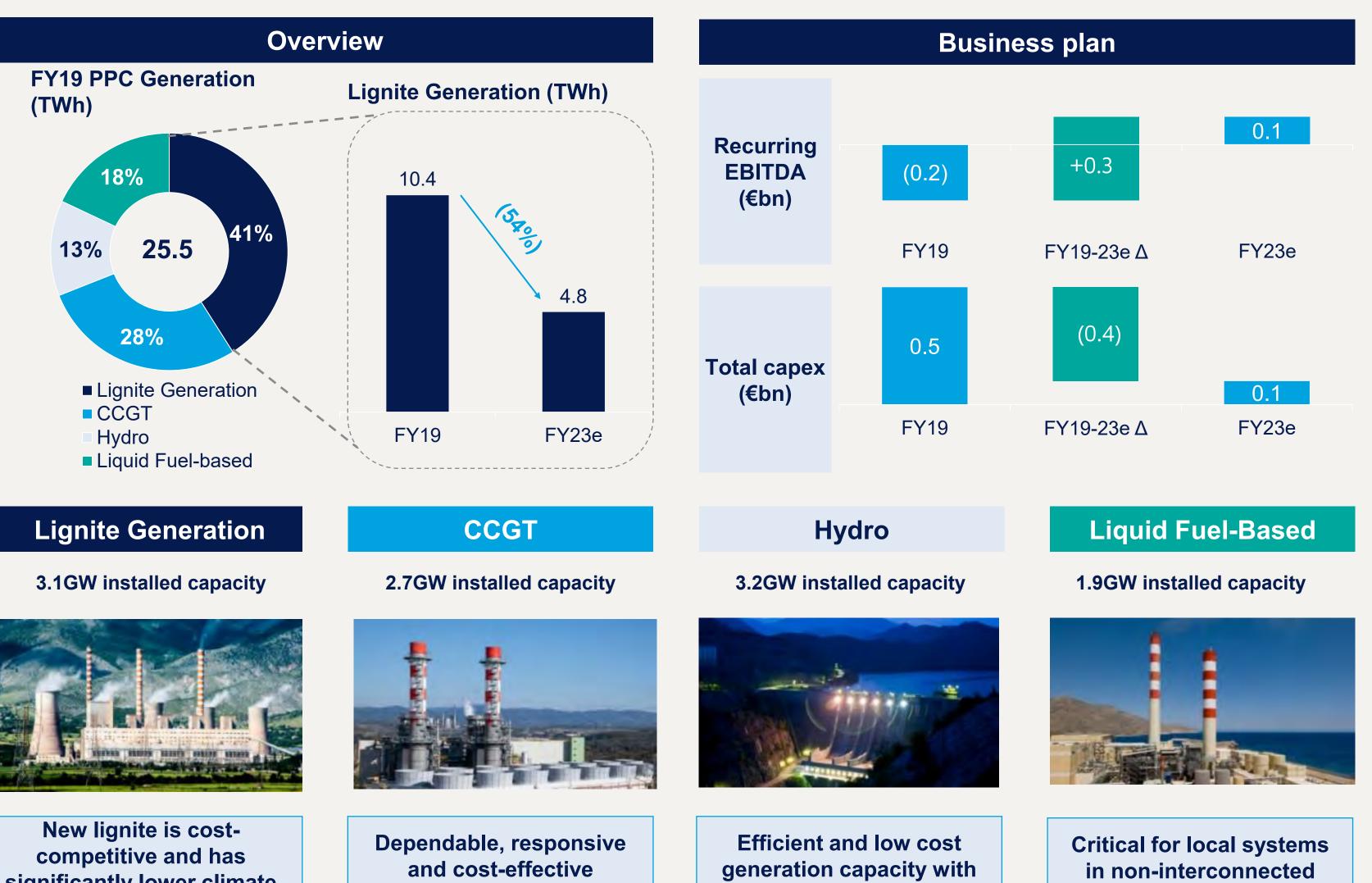
## **Conventional generation overview**

Improving efficiency of existing assets to extract incremental value

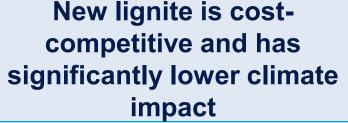
### **PPC Conventional generation:**

- ✓ Largest conventional generation fleet in Greece, across lignite, gas and hydro
- ✓ Low-cost hydro units
- ✓ Sole owner of utility-scale hydro
- ✓ Significant gas generation fleet - 50% highly efficient and 50% with substantial optimization opportunities
- ✓ Mixed lignite-fired portfolio
- ✓ System-critical fuel-based generation on Greek islands
- ✓ Conversion of new Ptolemais V unit from lignite to nat gas by 2025

✓ PPC will decommission c.3.4GW of lignite net capacity 2019 - 2023











islands

zero emissions profile

generation

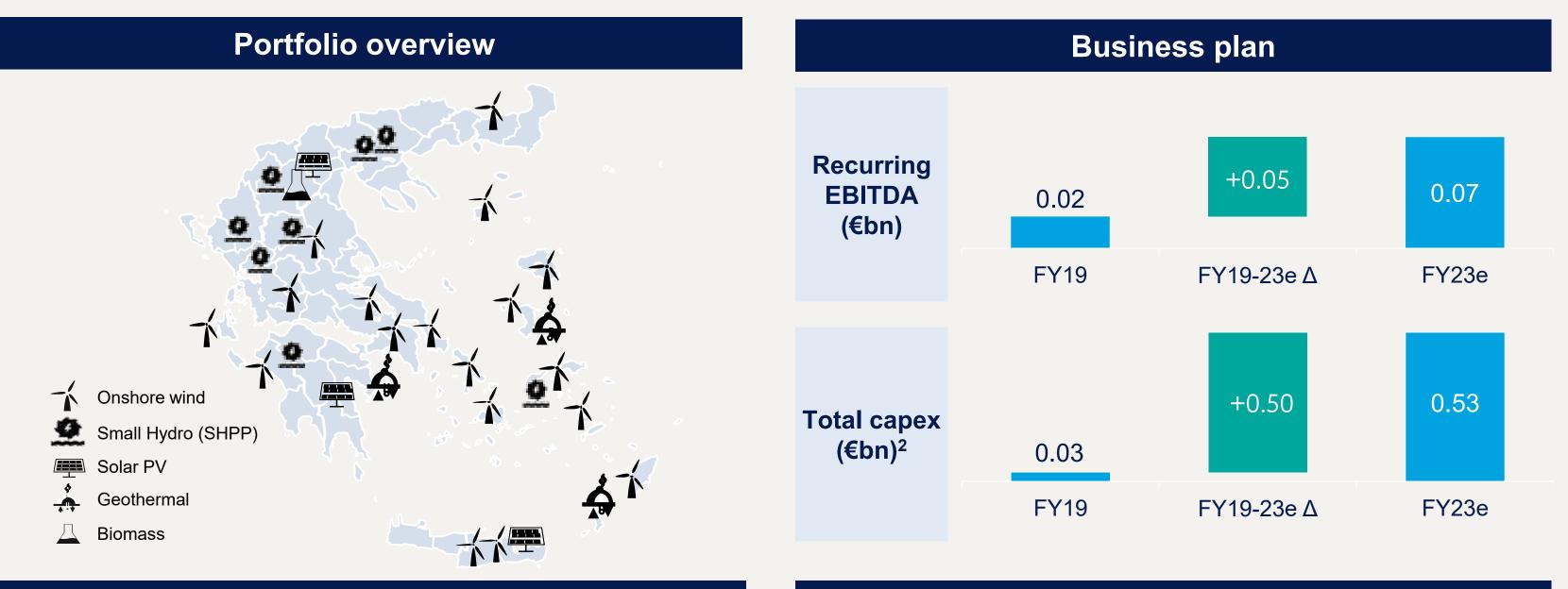
## **Renewables generation overview**

Facilitating PPC to transform into an environmentally sustainable, modern utility

Well positioned to accelerate **RES capacity build-out as a** result of:

A

- ✓ Strong expertise in the renewable energy field with deep technology agnostic know-how
- ✓ Vast existing land ownership
- ✓ Ability to enter into inter Group PPAs
- ✓ 2GW PV in mines: Production licenses granted
- ✓ 634MW PV applications including floating PVs granted
- $\checkmark$  ~1GW/3GWh applications for energy storage
- ✓ Total portfolio > 7GW
- $\checkmark$  >1GW secured capacity by 2023



### >1GW secured capacity by 2023

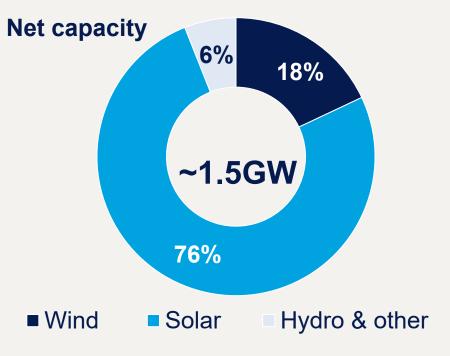


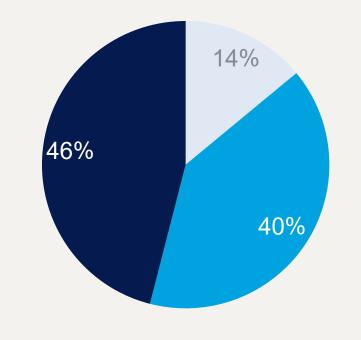
2020E-2023E

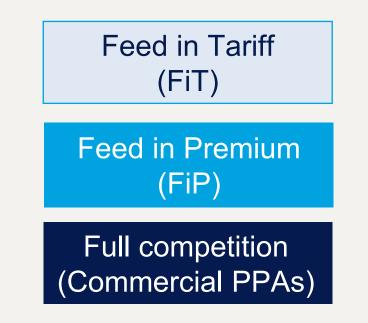
Wind



**Offtake agreements for >1 GW secured capacity** 

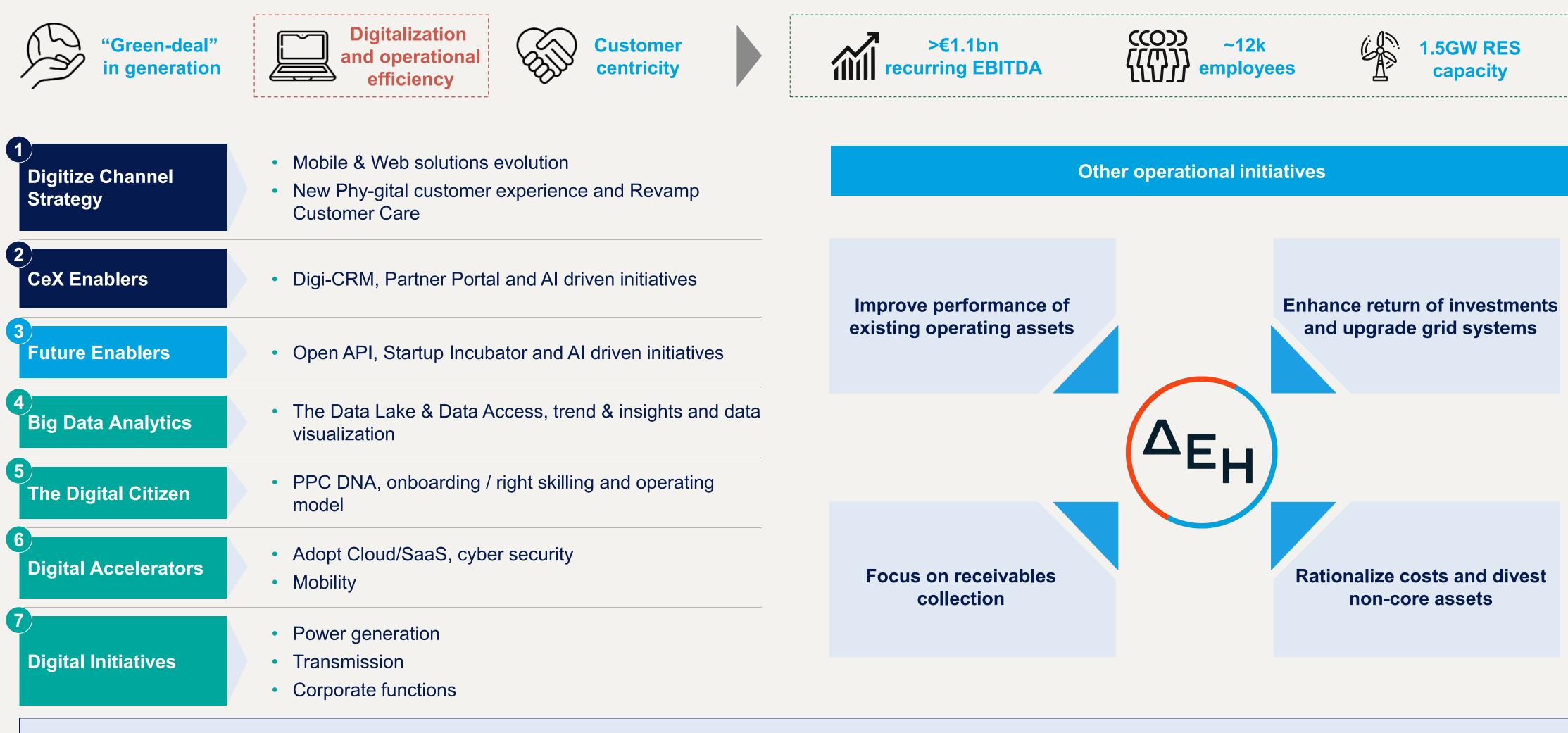






2023E

## **B** Digitalization and operational efficiency Digitalization of distribution and supply divisions driving higher levels of customer integration and profitability



PPC has appointed two board members/deputy-CEOs, George Karakousis and Alexander Paterakis to oversee the supply and digital division transformations, respectively



## **Distribution overview**

Resilient business with stable regulated returns

### Overview

- PPC's distribution assets are owned at PPC S.A. level and operated by the 100% owned subsidiary, HEDNO
- Sole electricity distribution business in Greece covering 5 regions
- Unique power infrastructure with attractive growth prospects
- c.€3bn RAB<sup>1</sup> and >242,000km network length
- 6.7% WACC for the 2021-2024 regulated period



### Key initiatives to drive further growth

### Regulatory framework

Align with regulatory framework on short term (2020) and mid term (2021-24) remuneration and incentives scheme

### Capex

Define investment needs to meet NECP<sup>2</sup> ambition and catch-up with underinvestment, and accelerate Capex execution

### Opex

Renew ageing workforce and retain experience, whilst introducing new, efficient ways of working via advanced asset management and digitalization, and 3<sup>rd</sup> party spend management

(1) Regulated Asset Base, Average year RAB including Working Capital

(2) National Energy and Climate Plan

(3) Includes electricity distribution assets/ operations under PPC plus HEDNO



Business plan<sup>3</sup> +0.53.5 3.0 RAB<sup>1</sup> (€bn) FY19 FY23e FY19-23e Δ +0.08 Recurring 0.49 0.41 **EBITDA** (€bn) FY19 FY23e FY19-23e Δ +0.37 0.52 **Total capex** Islands (€bn) 0.15 FY19 FY23e FY19-23e Δ

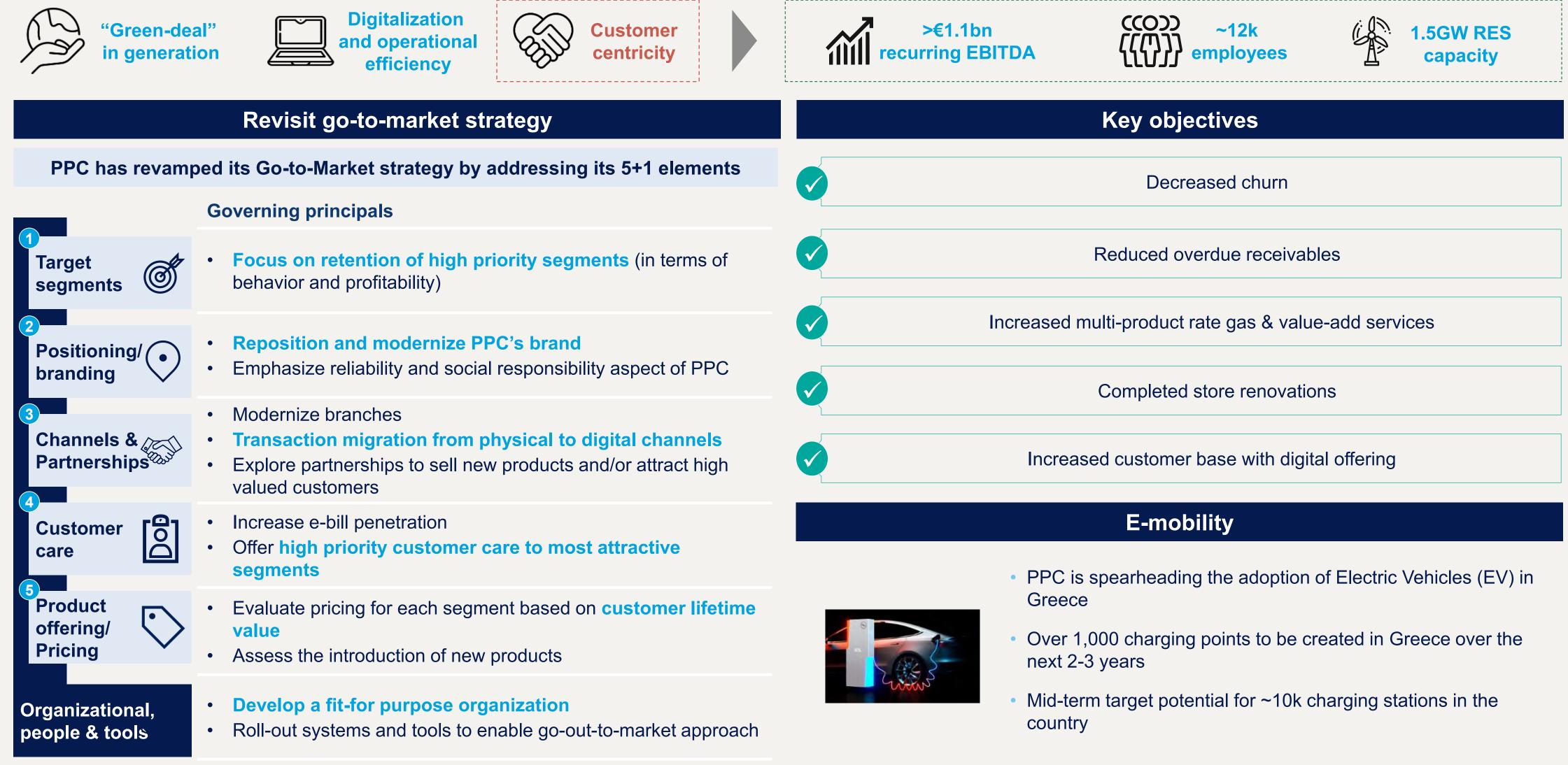
Incentives for Investments, Efficiency, Customer Service and				
Innovation				
New regulation is in line with European market precedents which				
offer cash flow stability for the next 8 years				



## Savings across payroll, repairs & maintenance and materials & consumables by 2028

## **Customer centricity**

New go-to-market strategy resulting in higher customer satisfaction and stickiness



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## C Supply overview Well positioned to benefit from new strategic opportunities and controlled market share reduction

## Clear #1 market leader despite controlled market share reduction



(1) Market share in the interconnected system as of Dec-20 (Source: Energy Exchange)

(2) In the Interconnected System as of Dec-20



Business Pan				
Key pillars:	Recurring EBITDA evolution (€bn)			
Know your customers			+0.4	0.5
Boost cash conversion via redesigned credit policy	KPIs	0.1 FY19	FY19-23e Δ	FY23e
Meet new needs	Revenues (€bn)	5.4	(1.2)	4.2
Reposition retail footprint	EBITDA margin (%)	2%	+9pp	11%
	# accounts (m)	6.4	(1.7)	4.7
Digitalize customer journey	Overdue receivables (€bn)	2.7	(0.5)	2.2

Highlights

Revised tariff structure has already improved Supply division profitability

PPC's integrated nature benefits from EU Target Model through intra-Group PPAs Growing RES capacity has a secured off-take, contributing to improved margin profile

**Diversified customer base centred towards high value client** 

The market share reduction requirements will help decrease the gap between the existing electricity demand and supply imbalance for PPC and increase economic benefit from the natural hedge

## 2. Key highlights





## **Summary of key highlights**

PPC's transformation into an environmentally sustainable, modern digital utility is underscored by the following strengths





Well positioned to benefit from positive policy and regulatory developments, supported by a steady macroeconomic backdrop and stable electricity demand

Critical role in supporting Greece's energy needs and transition to a lower carbon economy

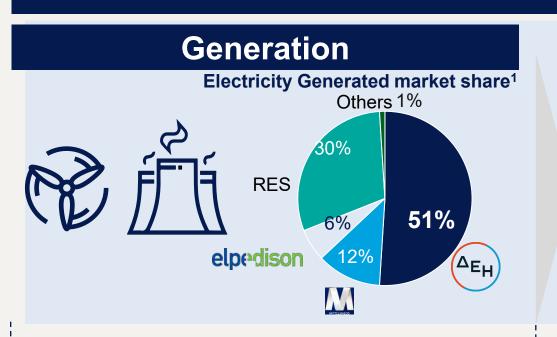
**Operates a resilient business model, building upon advantages of vertical integration** 

Exhibits a strong commitment to ESG principles and sustainability

Experienced market player with a strong senior management team and highly qualified personnel

## **PPC** is the leading and only vertically-integrated utility in Greece

Dominant market leader across the Generation, Distribution and Supply





### **Conventional generation**



• 10.9 GW<sup>2</sup> installed capacity across hydro and fossil-based generation

- Largest generation fleet in Greece diversified across hydro and conventional technologies
- Critical role in supporting Greece's energy needs
- (1) Market share as at Dec-20, Interconnected System only
- (2) As of Dec-2020. Including impact from decommissioning of Amynteo-Filota I & II in Sep-20
- (3) Including PPC's participation in JVs of c. 63MW as of April 2021

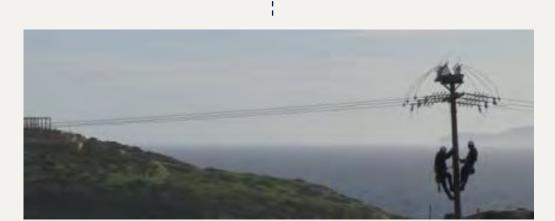


- **200MW<sup>3</sup>** of operational renewable capacity
- **30MW** construction completed
- 245MW under construction
- ~115MW final tender process
- ~570MW tender preparation
- ~400MW to be procured
- **>7GW** PPC project pipeline
- Fastest growing renewable generation platform in Greece
- Critical to national transition to a lower carbon economy \_\_\_\_\_!

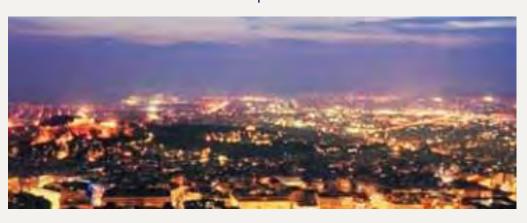


### Value chain





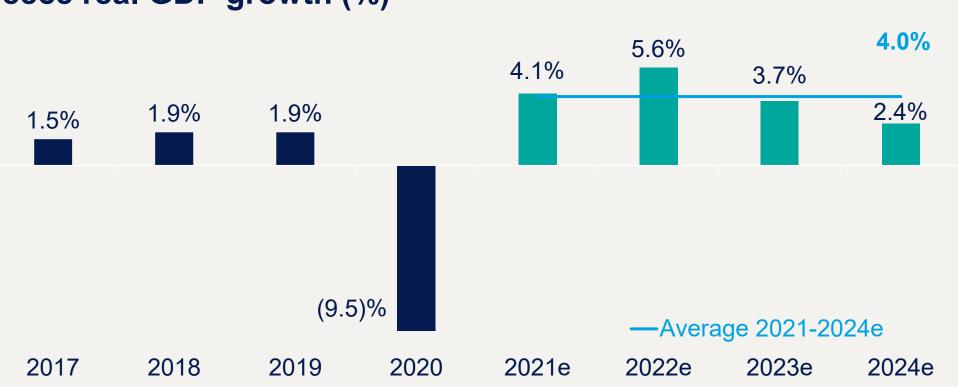
- Sole electricity distribution business in Greece
- ~€3bn of regulated asset base
- 6.7% WACC for the 2021-2024 regulatory period
- Unique power infrastructure with attractive growth prospects
- Resilient business with stable regulated returns



- ~ 6 m of customers
- 33 TWh energy sold in Dec 20

- Market leading power supplier for **Greece's businesses and households**
- Well positioned to benefit from positive policy and regulatory developments

## Well positioned to benefit from positive policy and regulatory developments, supported by a steady macroeconomic backdrop & stable electricity demand (<sup>Δ</sup>Ен) (1/2)



**Greece real GDP growth (%)** 

- The government has a stated intention to create a more investor friendly environment through pro business reforms
- **Strong** sovereign credit ratings:
  - S&P: BB- / Stable
  - Moody's: Ba3 / Stable
  - Fitch: BB / Stable
- Steady decrease expected in unemployment from 18.3% to 13.5% (2021-24e)
- €32bn allocation in EU recovery fund (€6.2bn ear-marked for the green transition) and €40bn in EU cohesion fund<sup>2</sup>

Source: IMF, Bloomberg as of 5 Mar 21

(1) Nouvelle Organisation du Marché de l'Electricité

(2) Source: Hellenic Republic Ministry of Finance, HSBC Research, Reuters, Keep Talking Greece

### Steady macroeconomic backdrop



### ... with strong government support

Termination of loss-making NOME<sup>1</sup> auctions

Implementation of EU Target Model, allowing greater flexibility, and access to tools for effective risk management

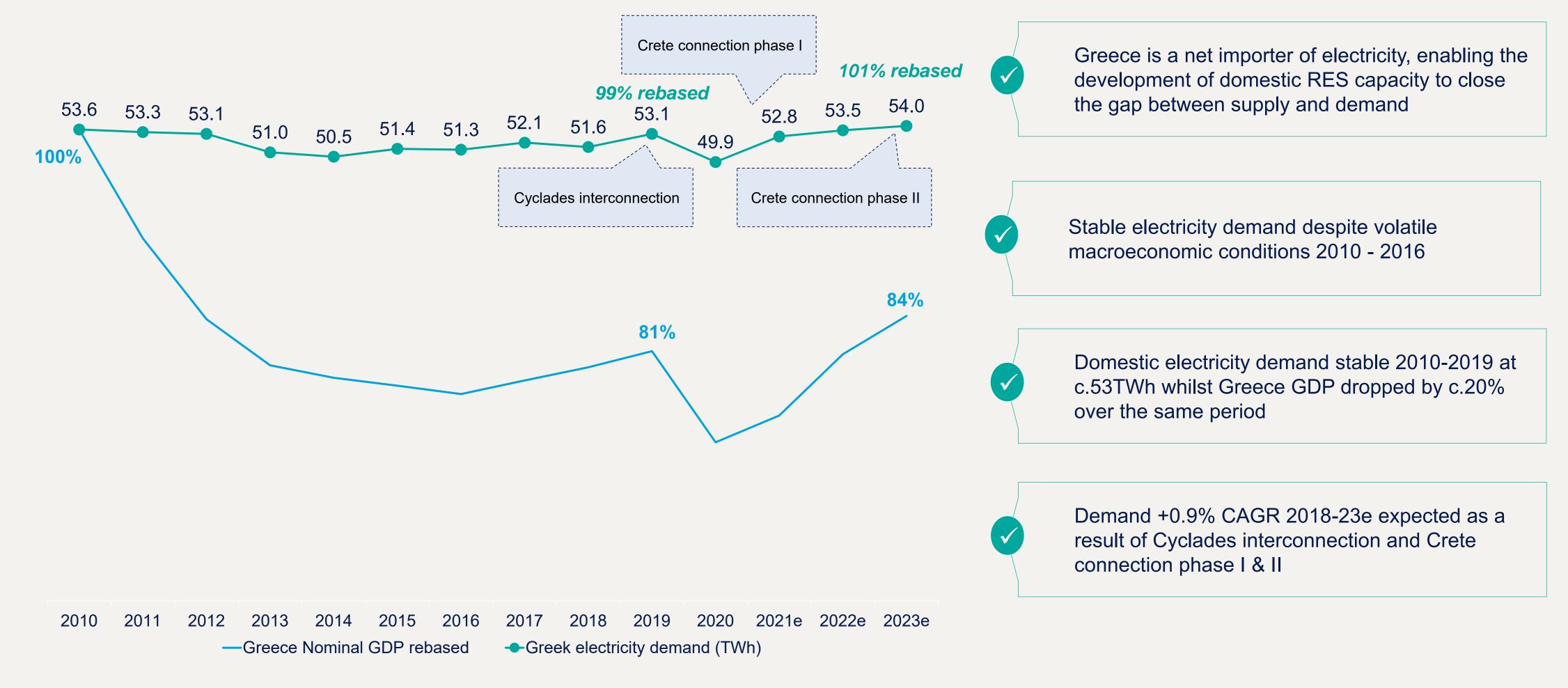
No longer "Supplier of Last Resort"

Political support for new tariffs, and intensifying arrears collection efforts

RAE announced new regulation framework for HEDNO providing incentives for outperformance and extending regulatory period to 4 years

## Well positioned to benefit from positive policy and regulatory developments, supported by a steady macroeconomic backdrop & stable electricity demand $(\Delta E_H)$ (2/2)

Stable electricity demand



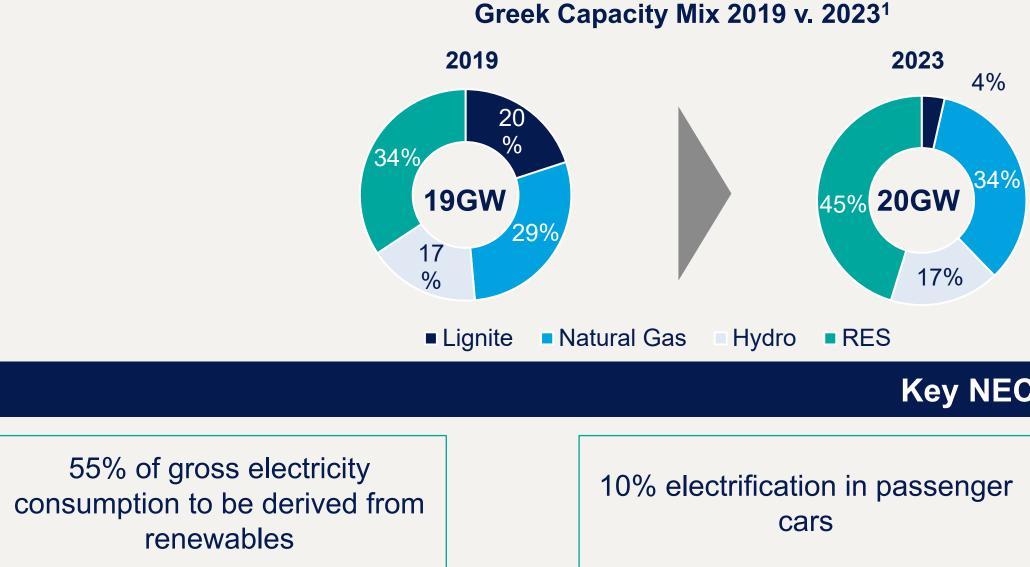
Sources: IPTO, HEDNO, OOEM, DAS yearly report, Ministry for Environment & Energy Draft Long Term Plan for Energy & Climate Change, EIU

## Critical role in supporting Greece's energy needs and transition to a lower carbon economy

### **Critical to Greek infrastructure**



### PPC is well positioned to benefit from the national energy transition



Sources: IPTO, HEDNO, OOEM, DAS yearly report, Ministry for Environment & Energy Draft Long Term Plan for Energy & Climate Change (1) Refers to Interconnected System 20 (2) vs. 2005 emissions



### Leading and only vertically-integrated utility in Greece

- Largest generation fleet in Greece, across lignite, gas and hydro (11.0GW installed
- c.€3bn distribution network RAB and Largest employer in the utilities sector

### **Instrumental in helping Greece meet its** low carbon goals

- Accelerated lignite decommissioning fastest in Europe
- Ramp up of RES capacity not dependent on subsidies
- PPC's strategically advantaged to help offset demand and supply imbalance through RES
- Spearheading adoption of electric vehicles



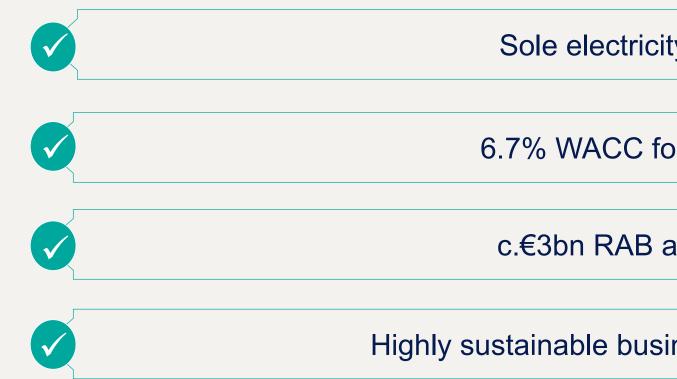
### Key NECP targets by 2030

35% reduction in final energy consumption vs. current projections

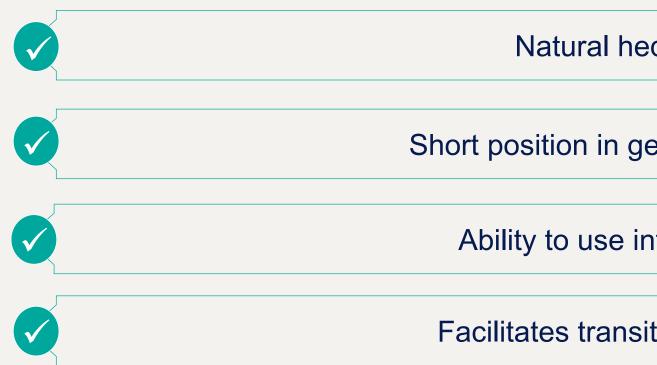
63% reduction in GHG emissions<sup>2</sup>

# Operates a resilient business model, building upon advantages of vertical integration

### Stable resilient returns from Distribution network...



### ...building upon advantages of vertical integration





Sole electricity distribution business in Greece

6.7% WACC for the 2021-2024 regulatory period

c.€3bn RAB and >242,000km network length

Highly sustainable business with c.€400m recurring EBITDA p.a.

Natural hedge of generation and supply

Short position in generation and a long position in Supply

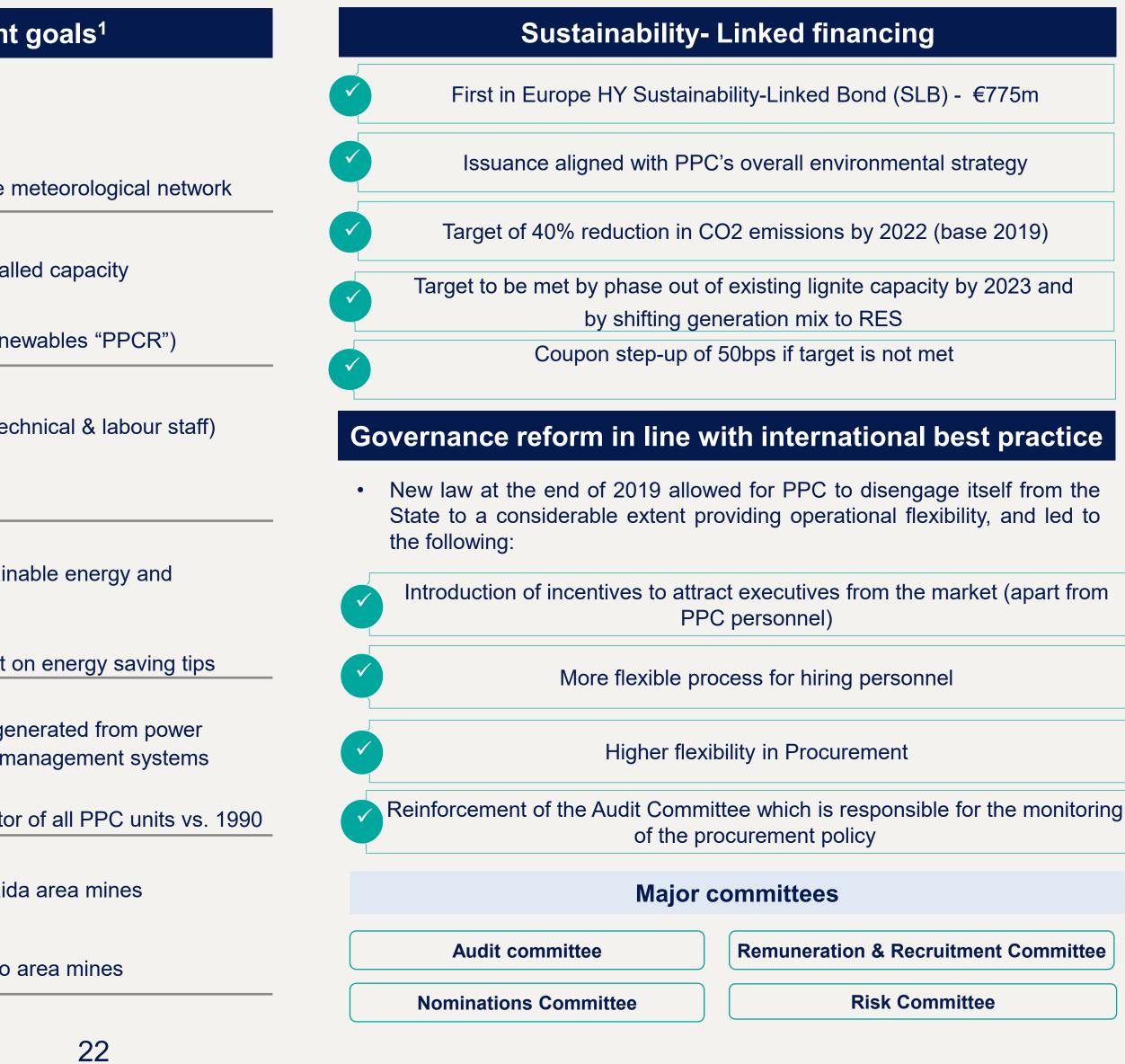
Ability to use intercompany bilateral agreements

Facilitates transition into a more competitive market

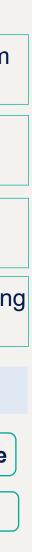
Exhibits a strong commitment to ESG principles and sustainability

PPC's contribution to its 6 major sustainable development				
6 CLEAN WATER AND SANITATION	PPC contributes to the sustainable management of water resources	<ul> <li>1,803 million m<sup>3</sup></li> <li>for irrigation</li> <li>170</li> <li>Metering stations for highly reliable metering</li> </ul>		
7 AFFORDABLE AND CLEAN ENERGY	PPC provides access to reliable and modern energy to all of its clients, and commitment to development of RES capacity	<ul> <li>3,171MW</li> <li>Of Hydroelectric power plants' installed</li> <li>165MW</li> <li>Of RES installed capacity (PPC renew</li> </ul>		
8 DECENT WORK AND ECONOMIC GROWTH	PPC promotes continuous, sustainable and inclusive economic development	<ul> <li>51%</li> <li>Employees are women (excl. the technology</li> <li>51,677</li> <li>Training hours</li> </ul>		
12 RESPONSIBLE CONSUMPTION AND PRODUCTION	PPC practises sustainable operations and informs its customers on the responsibilities and safe use of energy	<ul> <li>18,266</li> <li>School children educated on sustainal environmental protection</li> <li>~6,000,000</li> <li>PPC's customers received a leaflet on</li> </ul>		
13 CLIMATE ACTION	PPC actively contributes to the mitigation of climate change and its impacts	<ul> <li>93%</li> <li>Of PPC's total electricity output is general plants with certified environmental mare</li> <li>29.2%</li> <li>Reduction of the CO<sub>2</sub> emission factor of the CO<sub>2</sub> emissi</li></ul>		
15 LIFE ON LAND	PPC has developed a specific policy for the conservation of biodiversity and natural habitat	31,405 acres have been restored in the Ptolemaida 14,145 acres have been restored in the Amyntaio ar		









## Experienced market player with a strong senior management team and 6 highly qualified personnel

### Refreshed management team with a wealth of experience both within PPC and internationally



**Georgios Stassis** CEO, Chairman

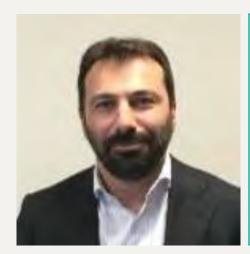
Vast experience in energy sector, incl. previous mgmt. positions at ENEL



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### **Anastasios Manos** CEO HEDNO

Previous executive positions in sectors incl. cement industry, RES



**Konstantinos Alexandridis** CFO

Many years experience in Financial Management of listed companies incl. OTE



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**Ioannis Kopanakis** Deputy CEO (Generation)

- Joined PPC in 1985
- Chief Development Officer of PPC S.A. since Jan-17

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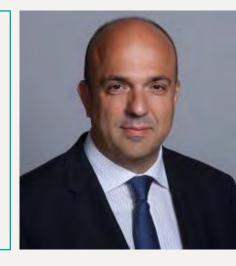






**Georgios Karakousis** Deputy CEO (Supply)

Previous positions at BT, TalkTalk, Wind Hellas and Forthnet



**Konstantinos Mavros** CEO PPC Renewables

Previous positions at Renault, Société Générale Bank and Intracom



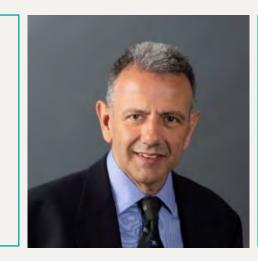




**Alexander Paterakis** 

Deputy CEO (Digital)

Previous positions at Vodafone, Accenture and Etihad Etisalat Mobily



**Pyrros Papadimitriou** Vice Chairman

Previous positions at Alpha Bank and advisor to the EU Parliament





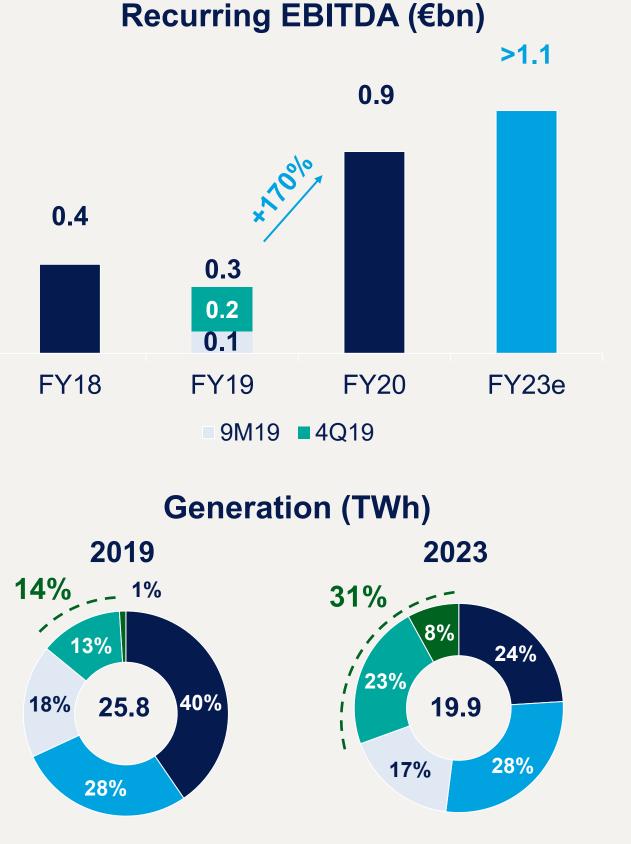
## 3. Conclusion





# PPC has delivered a substantial proportion of the transformation already, with limited remaining execution risk





■ Lignite ■ CCGT ■ Liquid Fuel-based ■ Hydro ■ RES



- $\checkmark$  Tariff rationalisation including CO<sub>2</sub> pass-through mechanism implemented
- Enhanced credit policy with stricter measures implemented by new management
- ✓ Abolition of NOME auctions and lignite levy
- New EU target model implemented enabling greater flexibility and more efficient risk management
- ✓ New Distribution network regulation implemented (4-year period)
- Decommission all existing lignite capacity by 2023 (1.1GW net capacity already decommissioned in 2020 and 2021 and another 0.25GW on track to be decommissioned by the end of the year)
- ✓ Lignite decommissioning costs already fully provisioned (€0.4bn) and spread over 10-15 years
- ✓ 7GW RES pipeline, providing strong conviction to reach at least 1.5GW 2023, with 1GW already secured
- RES growth not reliant on subsidies, driven by economics and capitalising on PPC's excellent geographic locations and access to intra-group PPAs

## R team - Contact us

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