Aristotelis Chantavas

Head of Europe Area







ENEL ACTIVITIES

RES MARKET TRENDS

IDEAS FOR THE GREEK MARKET

Enel today

We are a global leader in the new energy world



1st network operator1

World's largest private player² in **renewables**

Largest retail **customer** base worldwide¹





73 mn end users



44 GW capacity²



46.5 GW capacity³



5.7 GW demand response



~ 64 mn customers⁴

- 1. By number of customers. Publicly owned operators not included
- 2. By installed capacity. Includes managed capacity for 4.2 GW
- 3. It includes nuclear
- 4. Includes customers of free and regulated power and gas markets

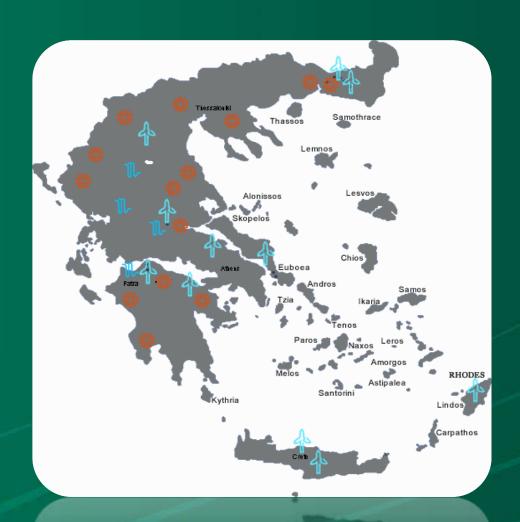
Enel in Greece

10 years and keep going...



Technology	No. Plants	Installed Capacity (MW)	
Wind	17	200	
Hydro	5	19	
Solar	28	88	
Total	50	307	

Investments of more than 500 million Euros



Additional capacity

Kafireas Wind Farms 154 MW

New investment of more than 300 million Euros

Kafireas wind farms

The biggest wind farms' complex in Greece





- Expected production to cover the needs of 130.000 households
- 1.5 million man-hours / Zero accidents
- 3% of revenues delivered to the local community each year
- More than 12 million Euros spent locally in sustainable initiatives



THE PROJECT

- 7 wind farms / 67 wind turbines / 154,1 MW
- 2 substations / 25 km overhead line
- 45 km submarine cable
- 18 km underground cable

INNOVATION

- Use of remotely operated vehicle for the trenching of the submarine cable
- Drones for installation of overhead line cables
- Bird monitoring system to start / stop the turbines automatically
- Tele-medicine at the construction site



ENEL ACTIVITIES

RES MARKET TRENDS

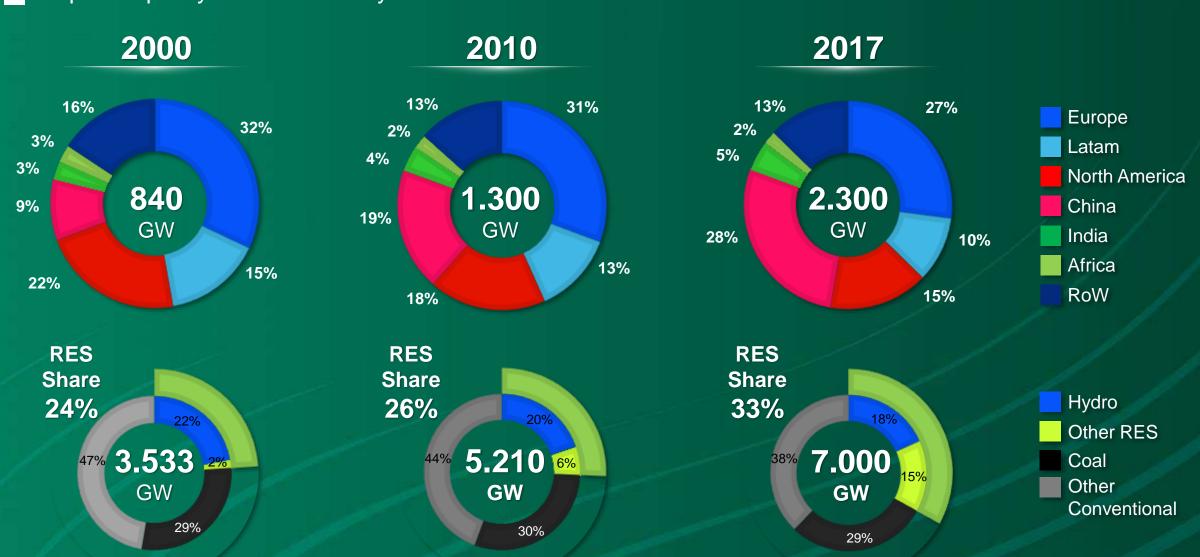
IDEAS FOR THE GREEK MARKET

Renewables Installed Capacity

Tripled capacity in less then 20 years

Source: Enerdata

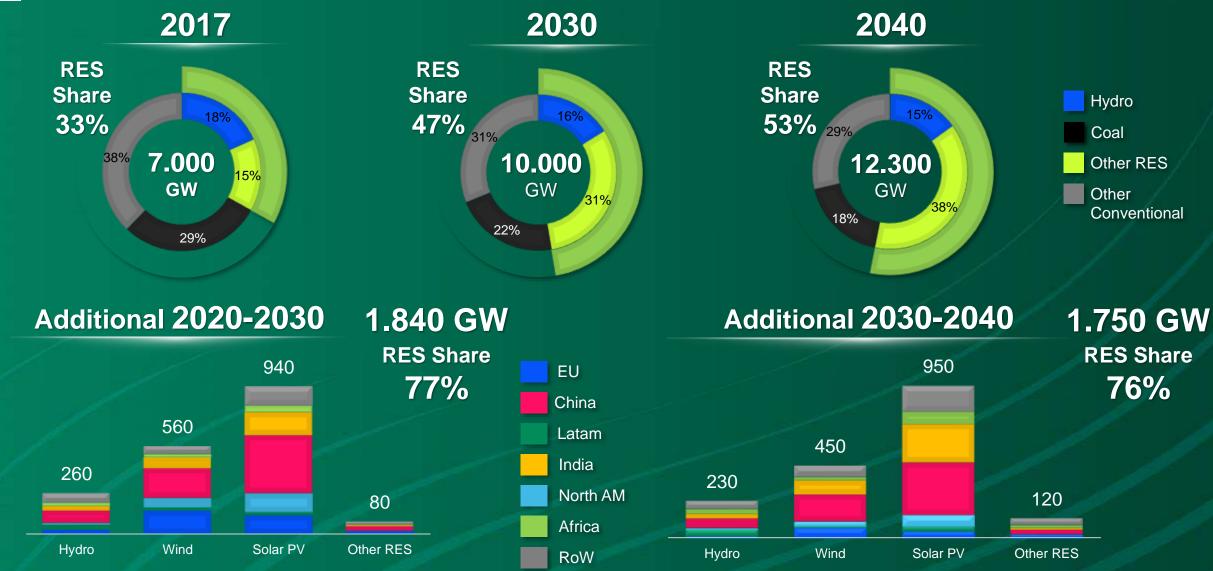




How the installed capacity mix will look like

enel

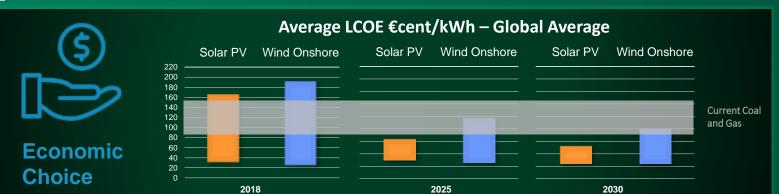
World Installed Capacity



Source: World Energy Outlook 2018, New Policies Scenario - IEA

What is behind this growth?

RES development drivers





Easiest to do



PV & Wind 8 ÷ 12 months



Coal
40 ÷ 60 months



CCGT

16 ÷ 20 months (open cycle)

26 ÷ 30 months (closed cycle)



<u>Nuclear</u>

120+ months



Necessary For Environment

EXTREME HEAT

SEA LEVEL RISE

SEA-ICE-FREE ARCTIC



1EAST | EVEN

0.40

1.5°C

37%

2°C

2.6x worse

2°C vs 1,5°C

LEAST I EVERY

10x worse

E] 0.46

.06M MORE



Who is leading the transition



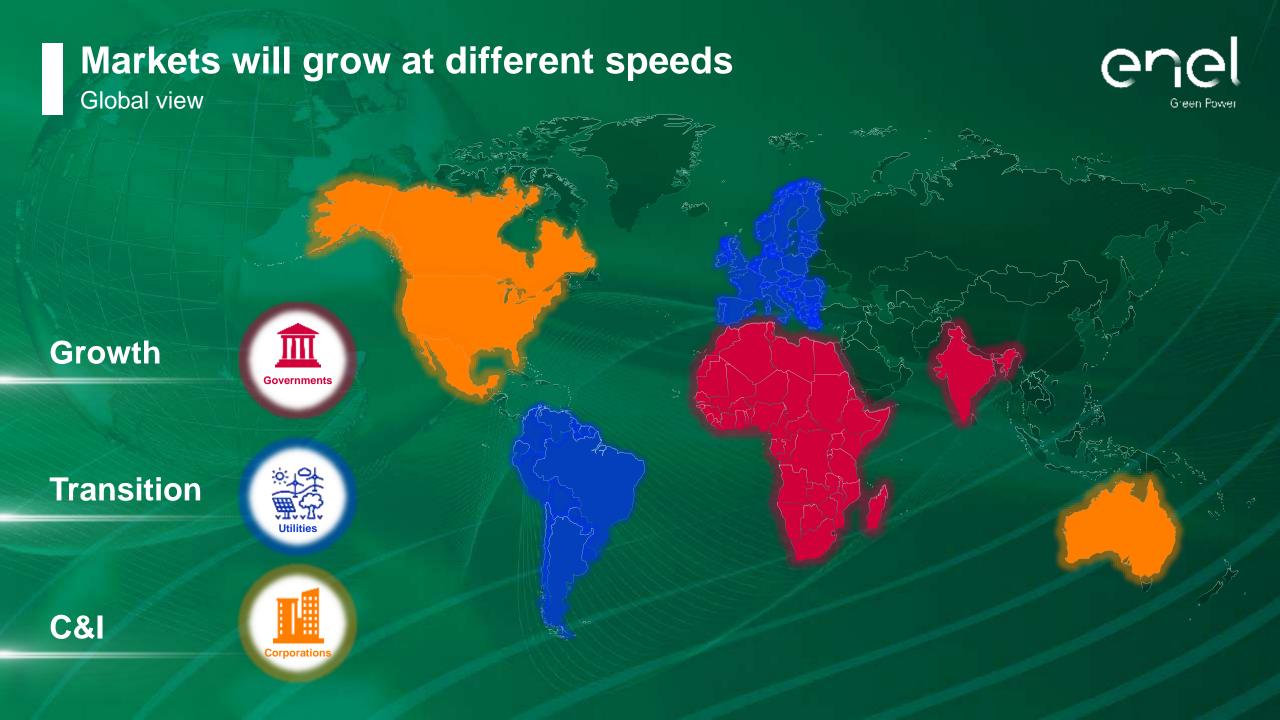
Conscious and sustainable value chain



Innovative and sustainable growth



Wise and sustainable energy strategy



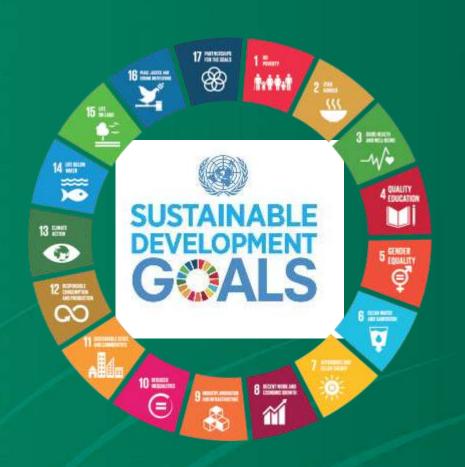
Consumer's awareness for climate change is spreading worldwide





Strong commitment to our SDGs targets





Engaging local communities (mn beneficiaries)		2018E ¹	Target 2020 ¹
4 OKLET	High-quality, inclusive and fair education	0.9	0.8
7 MORALLINO	Access to affordable and clean energy mainly in Africa, Asia and Latin America	2.22	3.0
8 SECONTABLAND ECANAL COCAPTS	Employment and sustainable and inclusive economic growth	1.8	3.0
Climate change		2018E	2020
13 EDWATE	Reduction of CO ₂ specific emissions (kg/kWh _{eq})	0.39	<0.35

Cumulated figures since 2015

^{2.} In the whole Group perimeter, 4.9 mn beneficiaries were reached



ENEL ACTIVITIES

RES MARKET TRENDS

IDEAS FOR THE GREEK MARKET

Ideas for the Greek market

Proposals to accelerate investments





Regulatory

- More ambitious targets for National Energy & Climate Plans
- Immediate Implementation of the Target Model and the bilateral PPAs
- Fast-Track for large / strategic investments
- Legislative Acceleration (e.g. Repowering, Hybrids, Storage, etc.)

Licensing

- Simplification / Acceleration of the Permitting Procedure
- Finalisation of Public Cadastre / Forest Maps / RES Land Planning
 - Modernization of Production Licenses Regulation



Thank you for your attention



