



Macro Trend



COP22

Marrakech Climate Change Conference -November 2016

- Implementation of Paris Agreement underway
- Multilateral cooperation on climate change continues



United Nations

17 Goals to Transform Our World Mobilize efforts to achieve Sustainable Development Agenda by 2030



Closing the loop

EU action plan for Circular Economy "Closing the loop" of product lifecycles through greater recycling and re-use. Bring benefits for both environment and economy



Guidelines and Targets of Energy Transition

European Guidelines

Decarbonisation Market Efficiency Security of Supply



...to ensure that Europe has secure, affordable and climate-friendly energy

TARGETS

	2020 EU 20-20-20		2030 The energy bridge
Reduction of GHGs emissions	- 20%	- 13% ¹	- 40%
Consumption covered by RES ²	≥20%	≥17% 🗸	27%
Energy Efficiency (vs BAU scenario)	+ 20%	+ 20%	+30%3
Interconnection vs. installed capacity	≥ 10% ⁴	≥ 10% ⁴	≥ 15% ⁵

[.] Target for Italy related to Effort Sharing Decision

Proposal EC Winter Energy Package (target previously set at 27%)

Investor Relations 2. Share of renewable energy in percentage of gross final energy consumption (transport + electricity + heating & cooling)

 [&]quot;Barcelona criterion" from the European Council of 2002, in Barcelona
 Single Member State target under study by EC



Our contribution to the Energy Transition

Differentiating through a shared innovation process

CLUSTERS



Transmission Technologies
Electric Power System Operation
Grid & Markets Development
Smart Grids (i.e. Smart Islands)
Business Improvement

PARTNERSHIPS



Start Up & SMEs
Academy & research centers
Energy sector & Infrastructures
Supply chain

demonstration cases – interconnection - interdisciplinarity





Tools to turn ideas into new strategic initiatives

Environment

A more sustainable approach to environmental themes adopting stringent standards

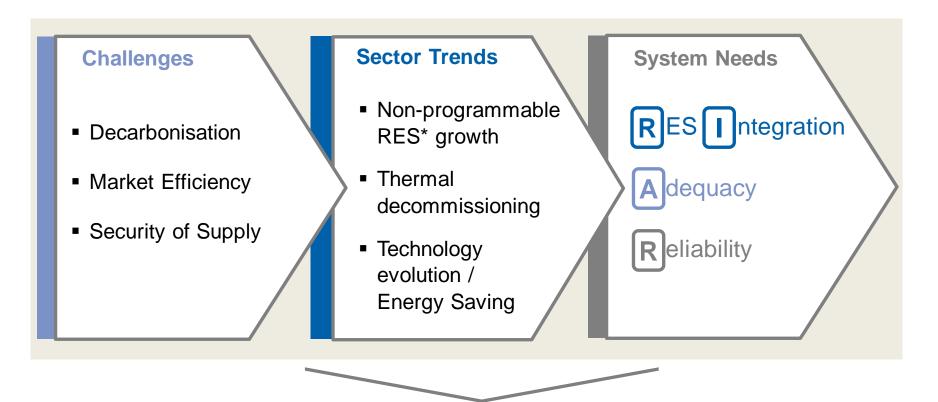
Human capital

Attract, develop and retain talents



The Energy Transition is Accelerating

NEW TRENDS TO INCREASE CAPEX REQUIREMENTS



At the lowest cost for the System with high quality standards

Investor Relations * Renewable Energy Sources



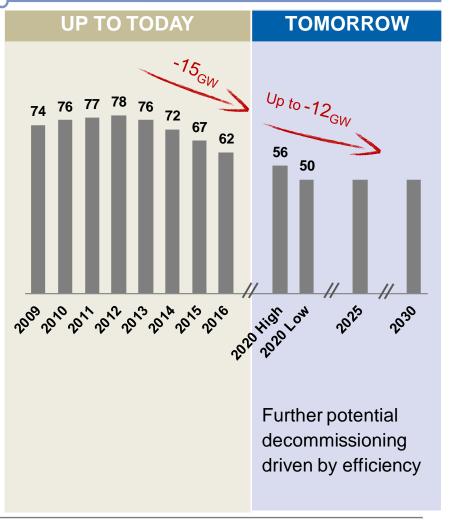
RES growing & Thermal decreasing



RES GROWTH (GW)

UP TO TODAY TOMORROW +17.6_{GW} +28GW WIND + 4.3_{GW} 38 35 13× 32 28 29 Further growth driven by competitive tenders with long term contracts $(2017 \text{ target } + 1.4_{GW})$

DECOMMISSIONING





Understanding RES Integration

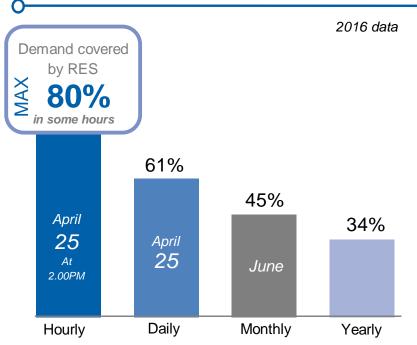


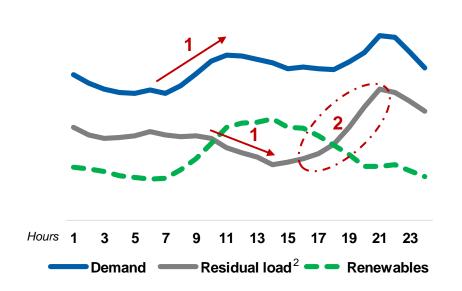
2016

DEMAND COVERED BY RENEWABLES¹

SYSTEM BALANCING NEEDS

GW





- 1 Peak inversion management
- > 2 Increased complexity of ramp up management

Need to integrate RES production

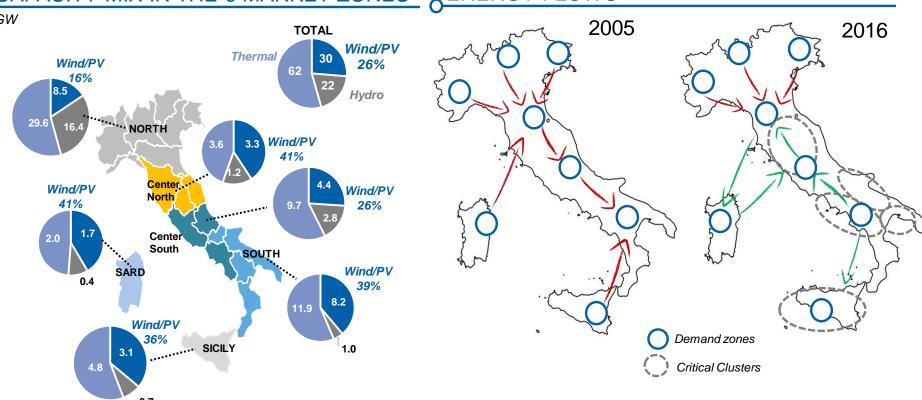
RES production / total demand (RES = Wind, PV, Hydro, Geothermal and Biomass)



REShuffling Energy Map







- Not homogeneous renewables distribution within the Country (concentrated in the South)
- Need for RES integration and new grid reinforcements on the backbone for South-North energy flow

Investor Relations * 2016 estimates 8

Avoiding Adequacy and Reliability Issues





Interconnections and Private Interconnectors	 In the Plan: Italy-France, Italy-Montenegro, SACOI3 (Sardinia-Corsica- Italy) and Italy-Austria Under Study: Italy-Switzerland, Italy-Tunisia and Italy-Slovenia 		
Internal Reinforcements	Transmission capacity increase on a zonal and local basis		
Replacements	Mitigation of risks of service interruption and increase eco-sustainability Supporting maintenance through digitalization		
Capacity market	 Selected counterparties to receive a premium (€/MW-year) for their capacity obligations Terna will run the Capacity Market auctions (first expected by YE2017) 		
	and Private Interconnectors Internal Reinforcements Replacements		

increase security of supply

Demand response, just-in-time metering and storage solutions to

Digital Grid

solutions



A Stronger Grid for Energy Transition

RATIONALE TYPE REGULATION Cross-Country Investments with high system Interconnections benefit Congestions' **Development** Terna new capex plan already resolution compliant with the new CBA - zonal 2.0 methodology - local Replacement Renewables Integration Transition from input to output-based and Totex Defense and quality of service Defense Reliability Digitalisation

Benefits for the System to drive Capex Plan

Reconfirming Mission and Strategy – Executing the Plan

Growth in Domestic Regulated to facilitate Energy Transition and leverage on core expertise to seize opportunities in Non Regulated & International

Priority List

Domestic Regulated business

New capex needs to enable energy transition

New Regulation

Potential new source of outperformance

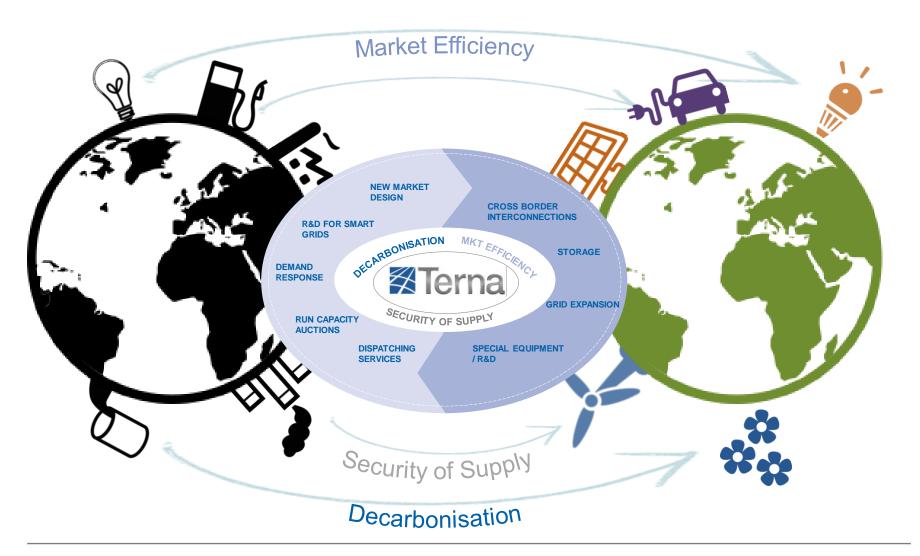
Domestic Non Regulated business

Energy Solution Provider

4 International Low risk potential upside Maximising shareholders' remuneration



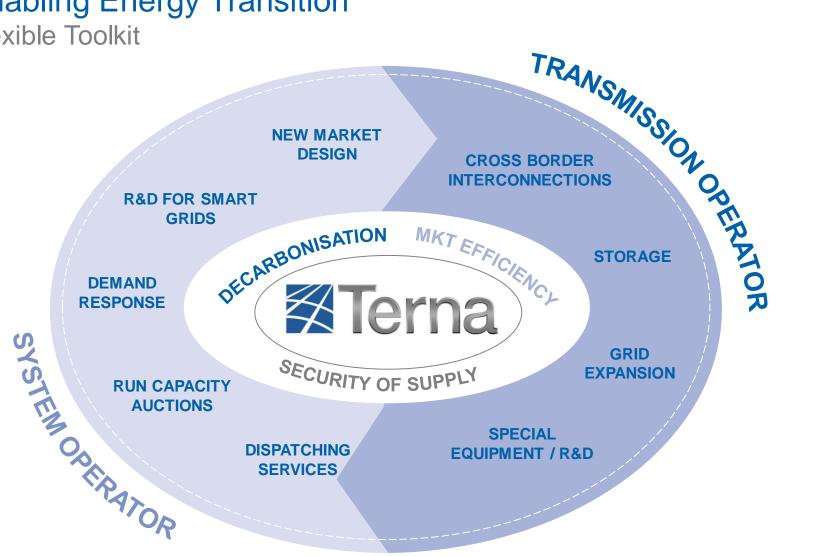
Energy Transition Ongoing...





Enabling Energy Transition

Flexible Toolkit





2017-2021 Confirming Safe Organic Growth

	REGULATED Capex Driven	NON – REG Capital Light	
DOMESTIC	Yearly average Capex ~+30% vs Old Plan	Yearly average EBITDA ~+40% vs Old Plan	
	Capex ~4.0 _{€bn} in 5 years RAB¹ CAGR 2015-2021 ~2 %	EBITDA ~350 ² _{€mn} cumulated in 5 years	
	up to ~15.6 _{€bn}	TLC X O&M	
INTERNATIONAL	Up to ~250 _{€mn} max equity allocation	EPC INTER CONNECTORS	
	EBITDA CAGR ~2%	With Longer Visibility	
	EPS CAGR ~3%		

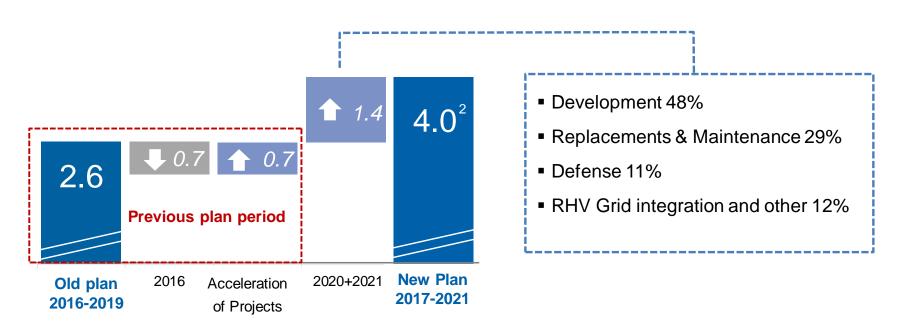
^{1.} Calendar RAB including WIP



Regulated Capex Plan 2017-2021

CAPEX PLAN EVOLUTION¹

€bn



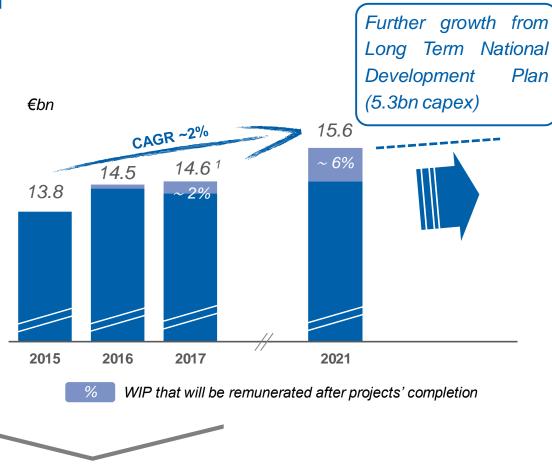
Average annual investing ~+30% vs Old Plan

FROM 2022



Calendar RAB Evolution

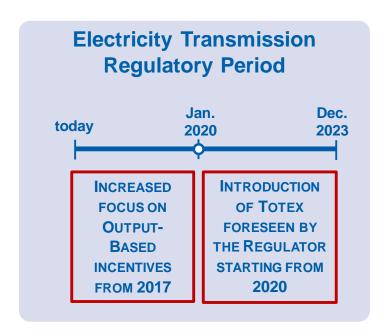
- Investment activity to support long-term RAB growth
- Total RAB at 15.6_{€bn} in 2021 (inflation at 0.7% on average)
- RAB incentivized stable at ~40%



A Solid +2% RAB CAGR within the plan period

Accommodating the Transition - Regulation

- Allowed Return (WACC) confirmed up to 2021 with potential upside on interim review (end 2018)
- New Incentives based on outputs for the system (i.e. capacity, quality of service)
- Totex Regime: potential outperformance vs outputs, targets and baseline (Opex+Capex)



A new regulation for an evolving system

Non Regulated Activities and International

Exploiting our core capabilities and expanding regulated activities to generate incremental growth

ACTIVITIES

VALUE PROPOSITION



- Industrial approach, leveraging on existing know-how
- Innovation, R&D and digitalization
- Integrated solutions



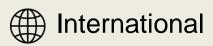


Capital Light

Private Interconnectors

- Industrial users to finance up to 2000MW cross border capacity with no impact on RAB and Net Debt for Terna
- Buy back into the RAB after exemption period

EBITDA ~350_{€mn} cumulated in 5 years Average ~60% Margin



Limited capital allocation focused on Transmission



Key Assumptions – Regulated Business

Regulatory	 > 2017 Total Grid Fee* @ 1.91€bn > RAB growth driven by: Capex (4€bn) Inflation at 0.7% on average > WACC at 5.3% also after 2019 interim review > Blended return at 6.3% (incentivized RAB at 40%) > Totex and Output-based: potential upsides not included > Inflation on allowed Opex at 0.5% on average
D&A	Extension to 45yrs in useful life of HV lines
Cost of Debt	Average 2017-2021 at 1.5%



Key Assumptions - Non Regulated & International

DOMESTIC NON REGULATED

KEY ASSUMPTIONS

Capital Light

Sapital Allocation



- Interconnectors: + 850MW cross border capacity
- RHV Grid new opportunities



- HV lines/substations
- PV initiatives



- Long Term contracts for housing services
- New opportunities from Broadband Italian initiatives

INTERNATIONAL

KEY ASSUMPTIONS





Brazil

- 2 BOOT concessions for >500km
- Capex at ~180_{€mn}
- P&L contribution starting from 2019



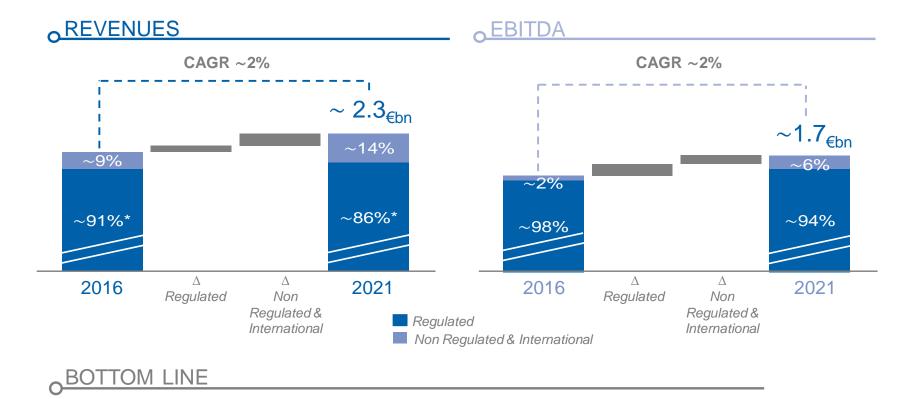
Jruguay

- BOT concession for >200km
- Capex at ~70_{€mn}
- P&L contribution starting from 2020 (on PBT)



Group Targets – P&L

Growth at Low Risk



> EPS CAGR ~3% with increased visibility

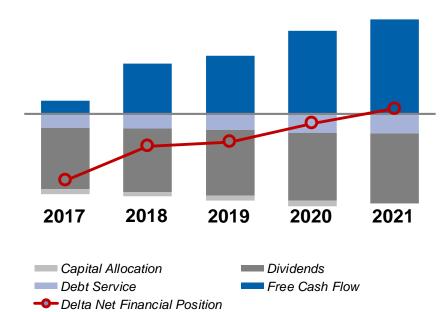
Investor Relations * including IFRIC 12

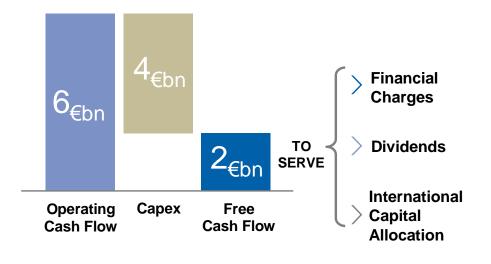


Group Targets – Cash Flow

ANNUAL EVOLUTION

CUMULATED 2017-2021





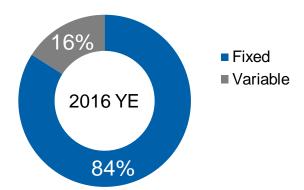


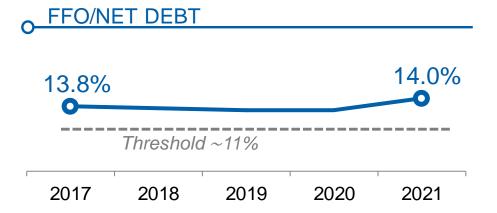
Group Targets – Net Debt

NET DEBT KEY FIGURES

- > Net Debt YE 2016 at 8_{€bn}
- Cost of Debt at 1.5% over the Plan
- > Net Debt / RAB < 60% over the Plan



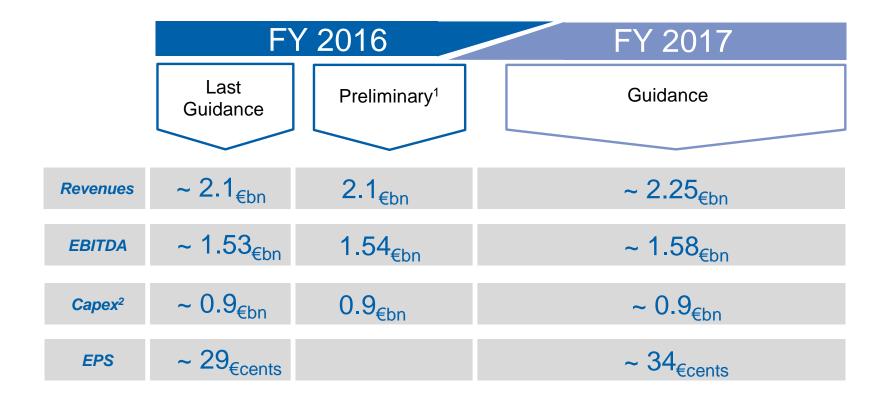




Rating ratios stable during the Period



Preliminary 2016 and Guidance 2017



^{1.} Unaudited figures

^{2.} Total Group Capex

Reconfirming Dividend Policy

For an extended period



Consistent and Sustainable

Terna has a major role in the Energy Transition whilst remaining:

1 A very predictable business

Focused on domestic regulated

Capex needs supportive for LT growth

2 Focused on Outperformances

Debt management

Potential upsides from new reg. period

Able to seize low risk opportunities in Non Regulated and International (regulated)

Committed on dividend growth for an extended period

A low risk growing investment profile



Annexes



2017 Total Grid Fee update*

2016

Transmission

1.73_{€bn}

Resolution 654/2015

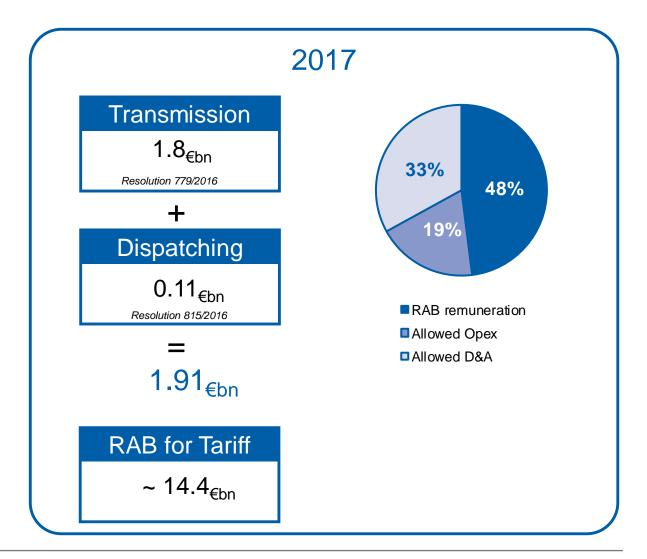
+

Dispatching

0.11_{€bn}

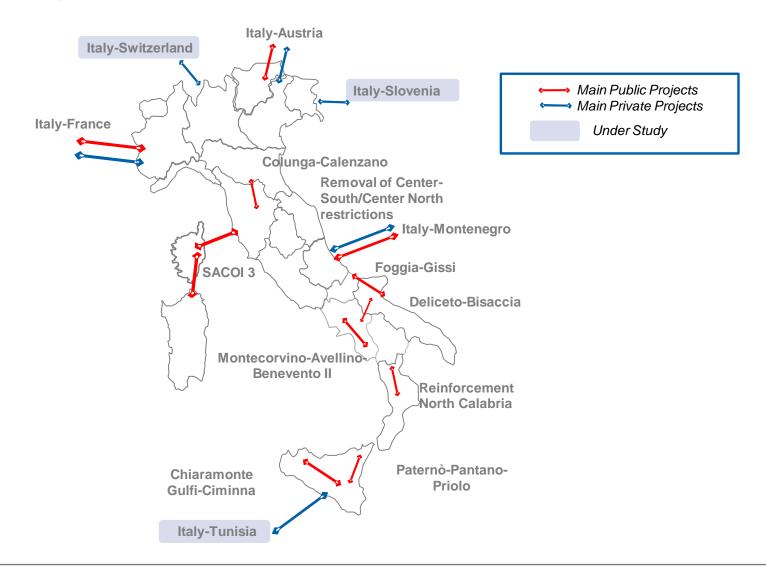
Resolution 658/2015

1.84_{€bn}





Main Projects





New Cost Benefits Analysis

INVESTMENTS SELECTION FOR SYSTEM BENEFITS MAXIMISATION

- New Cost Benefit Analysis (CBA 2.01) aligned with ENTSO-E criteria and methodology
- To be applied to projects >15_{∈mn}²
- Introduction of environmental and social KPIs
- Terna new capex plan already compliant with the new CBA 2.0 methodology

Main KPIs	CBA 1.0	CBA 2.0
Quality of service and security	•	•
Day-ahead market benefits	•	•
Renewables integration	•	•
Dispatching market benefits		•
Grid resilience and flexibility		•
Environmental and social KPI		•

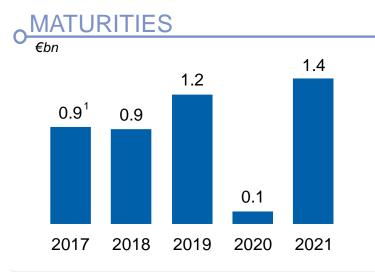
^{1.} AEEGSI resolution 627/2016

^{2. 25€}mn for 2017 National Development Plan projects

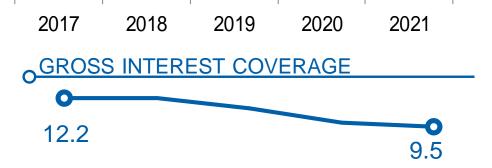


Summary Targets Financial KPIs

- Financial structure will remain solid within the plan
- Main Financial KPIs on a sustainable level, well below the main rating agency thresholds







RATING					
Rating	M/L Term		Delta	Outlook	
	Terna ² Sovereign			Terna ² Sovereig	
S&P	BBB	BBB-	+1 notch	Stable	Stable
Moody's	Baa1	Baa2	+1 notch	Negative	Negative
Fitch	BBB+	BBB+		Stable	Negative

2019

2020

2017

2018

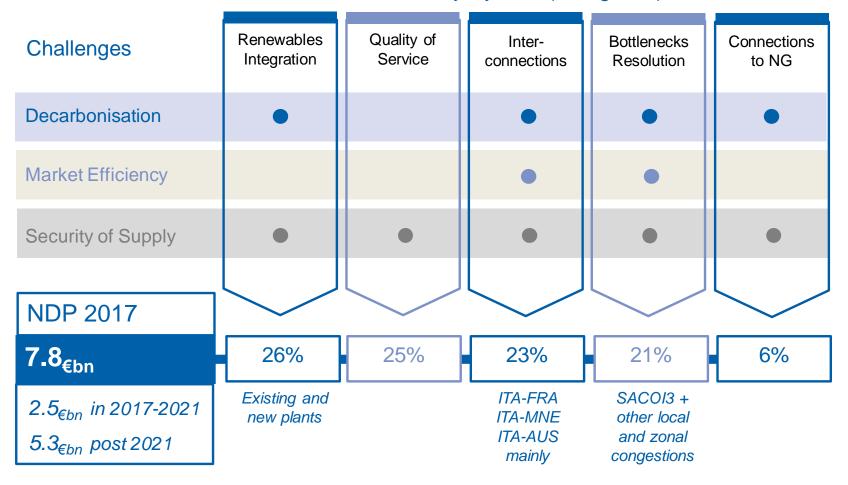
2021

^{1.} Of which 0.77 reimbursed in February 2017



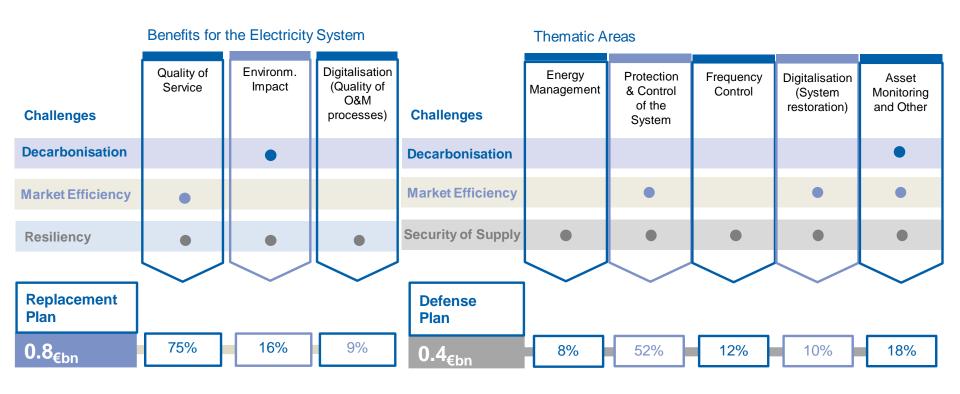
2017 National Development Plan

Benefits for the Electricity System (Categories)





2017-2021 Replacement and Defense Capex Plan





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