

ENERGY AND ENVIRONMENTAL POLICIES

**THE ITALIAN ELECTRIC SYSTEM IN THE LIGHT OF
EUROPEAN ENERGY POLICY**

Rome, 04 Novembre 2017





EUROPEAN LEGISLATION



ITALIAN IMPLEMENTATION



LEGISLATION'S IMPACT AND
LEVEL OF CRITICALITY

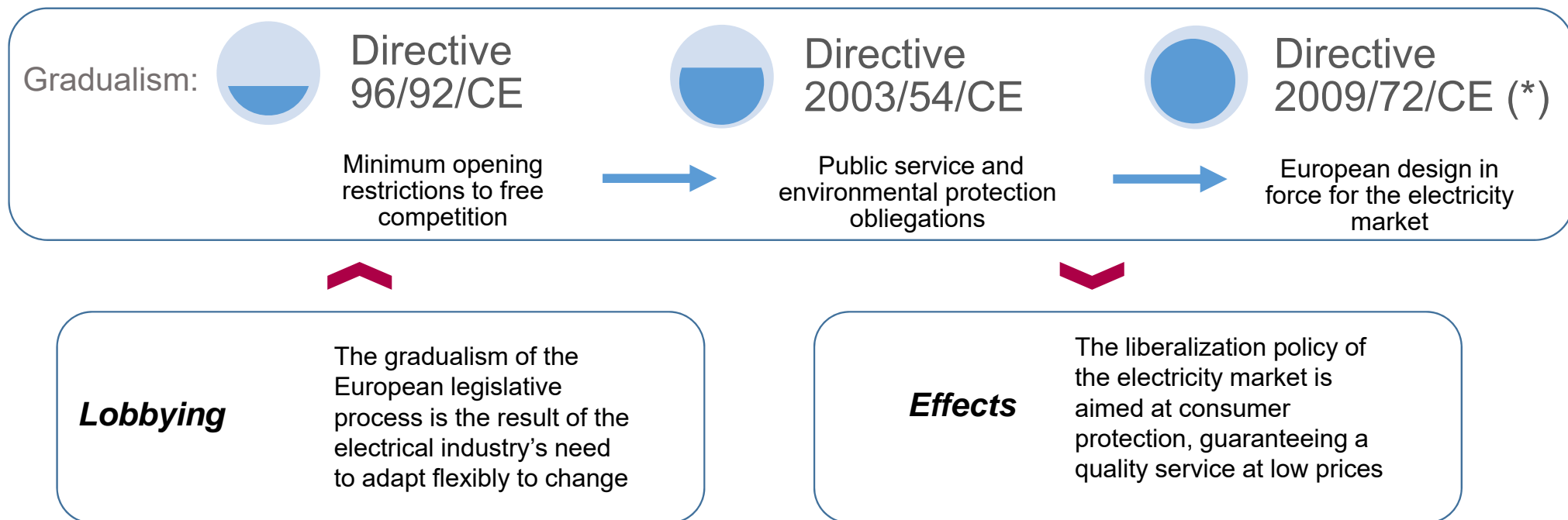


FUTURE SCENARIO: ELECTRICITY
AND ENVIRONMENTAL
SUSTAINABILITY

THE LIBERALIZATION OF ELECTRICITY MARKET

EUROPEAN DIRECTIVES

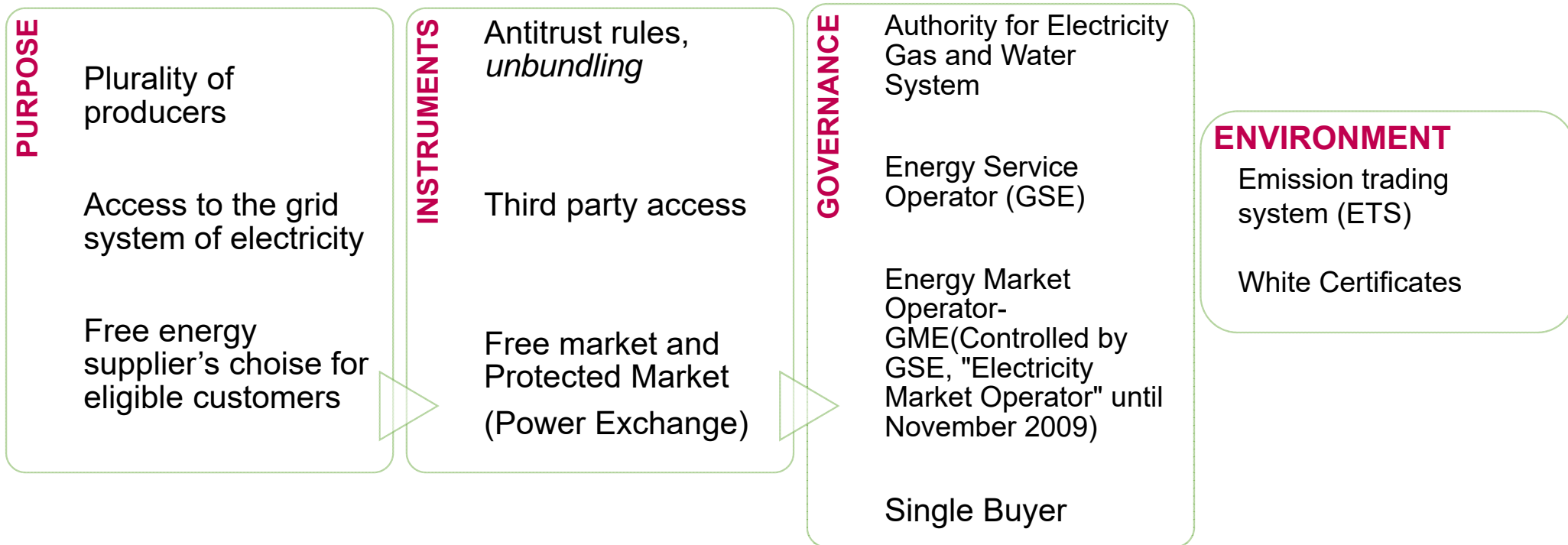
Main goal: single energy market



(*) Legal Basis: Lisbon Treaty 2007, Title XX, art. 174 A

THE LIBERALIZATION OF ELECTRICITY MARKET IN ITALY

BERSANI DECREE (d.lgs. n° 79/1999)



IBL LIBERALIZATION INDEX

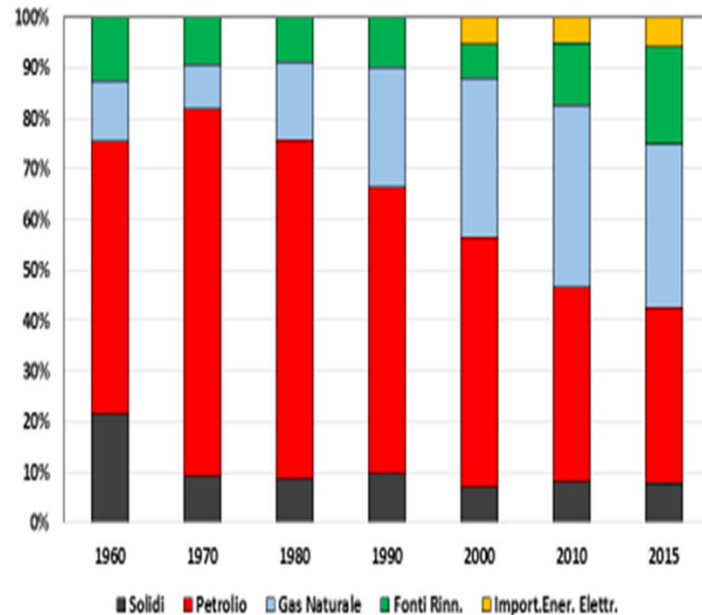
ITALY: 67%

MIDDLERANKING AMONG THE MOST LIBERALISED COUNTRIES

LEGISLATION'S IMPACT

EFFECTS OF INVESTMENTS MADE

**Energy demand in Italy
1960-2015**



Fonte: Autorità per l'Energia Elettrica, il Gas e il Sistema Idrico; Ministero dello Sviluppo Economico

- **2000 - 2009**

- ✓ + 11% Average efficiency of thermo-electric-generation plants (GGCT, CAR)
- ✓ - 17% GHG emission per units of production

- **2010 - 2015**

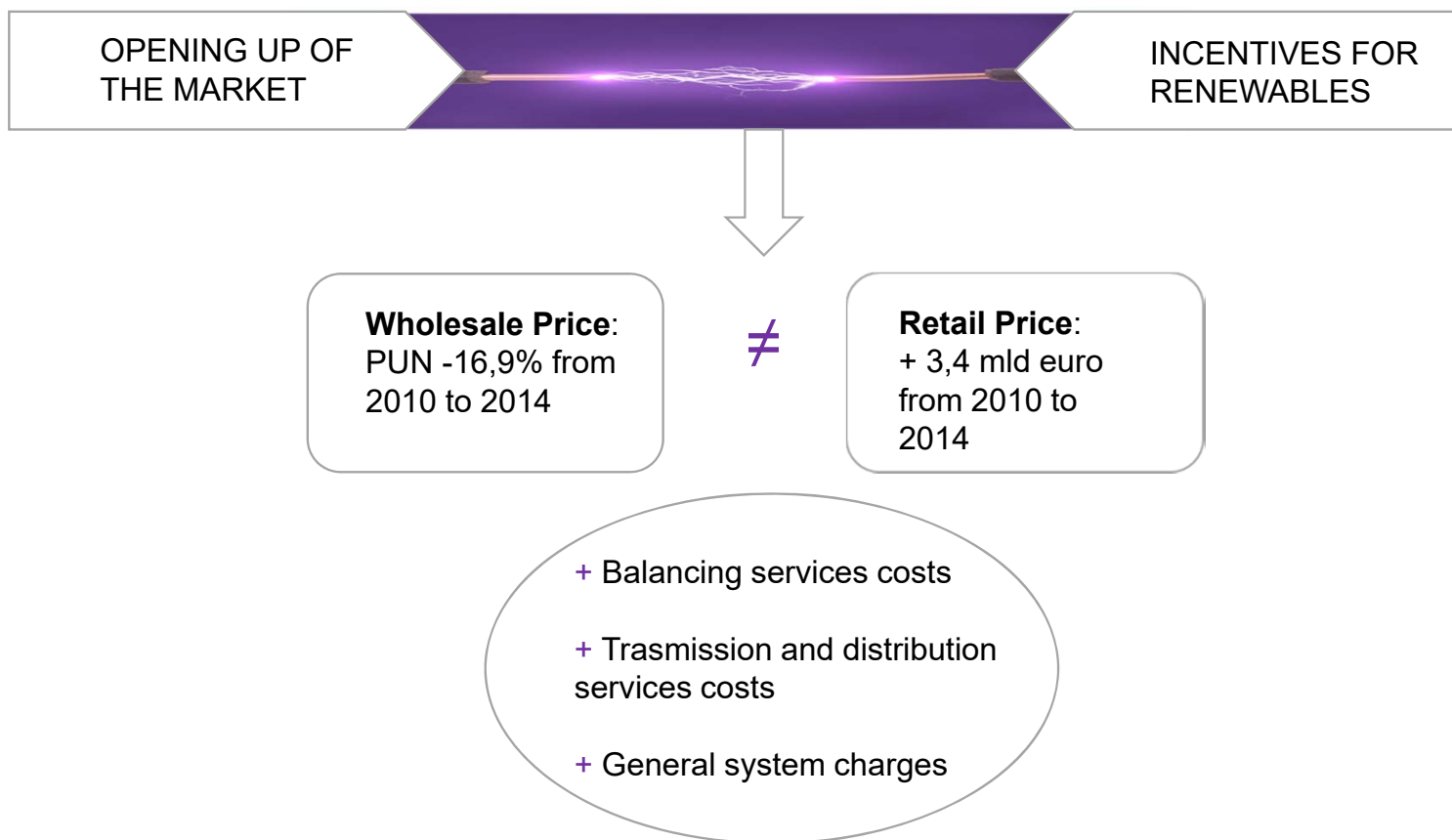
Decline in the share of gas (and not coal) in energy demand due to the development of renewable sources

- **2015**

- ✓ 20% renewable: EU 2020 target reached five years ahead of the roadmap → Necessary the development of smart grids
- ✓ 40% gas → Security of supply (Russia topic)

LEGISLATION'S IMPACT

ENERGY PRICE



LEGISLATION'S IMPACT

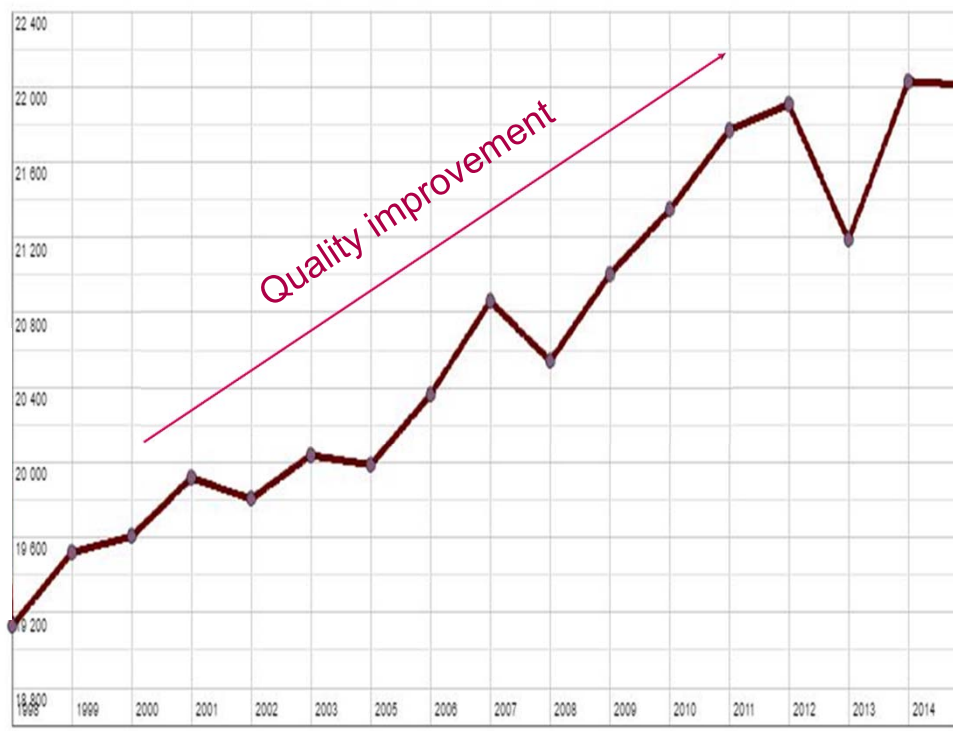
SERVICE QUALITY

Involvement of regulatory authorities in the monitoring of quality of service and electricity supply.

- Trasmission
- Distribution
- Sales

Minimum
Quality Standard
Prize / Penalty

overall service, thousands value



FONTE: ISTAT

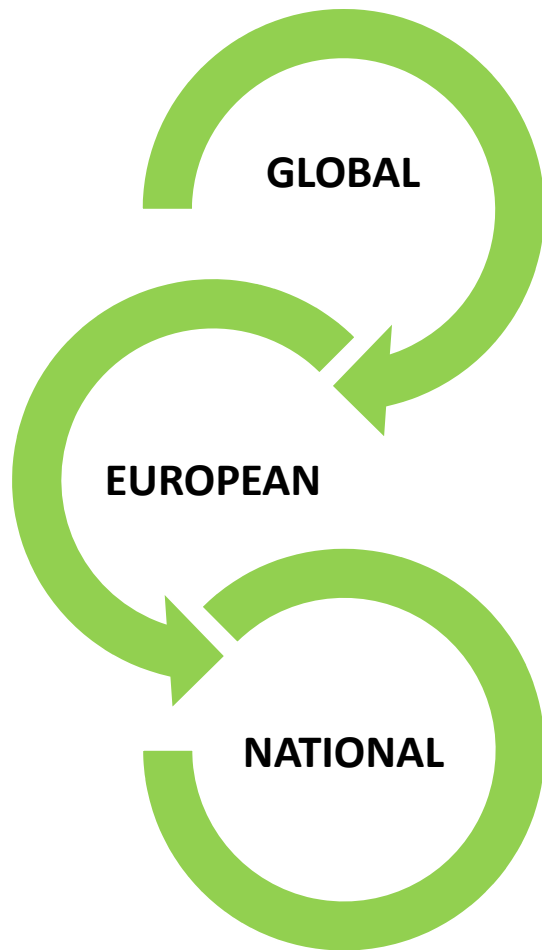
Year 2014:

22. 030 families satisfied of service quality on a sample of 22.400

! Criticality:
Clearness of electric bill

FUTURE SCENARIO

THE CHALLENGES OF ELECTRICITY SECTOR



- ETS mechanism
- Carbon Pricing
- Mobilizing investments (COP-ONU)

2017-2018

- New Market Design (directive: energy infrastructures, renewables, role of authorities, security of supply, energy efficiency, electric mobility)
- New Deal for consumers

- Decrease of general system charges based on efficiency of consumption
- Abolition of progressive system in the electricity bill for household customers
- Development of smart grid: investments and stable law

ENERGY ROADMAP TO 2050

Decarbonization of electricity production processes:

- 80/95% CO₂ emission

THANK YOU