



General Assembly

Rome, 16th November 2023

elettricitafutura.it

The Energy of Regions and Municipalities for the Security of Italy

Agostino Re Rebaudengo

President of Elettricità Futura



Elettricità Futura represents over
70% of the Italian electricity sector

With **50 new companies** that joined Future Electricity
this year, **we have even more energy.**

SPEED UP THE ENERGY TRANSITION!

This is the joint call for action addressed to European Governments by :

- **IEA** International Energy Agency
- **ECB** European Central Bank
- **EIB** European Investment Bank



Fatih Birol
@fbirol

Insightful dialogue with Ministers, business leaders, central bankers, civil society & other stakeholders at the @IEA-@ECB-@EIB Conference, co-hosted by @Lagarde, @WernerHoyer & me

Delivering a clean energy transition in Europe is vital for it to remain a global industrial power

[Traduci post](#)



FATIH BIROL **EXECUTIVE DIRECTOR IEA**

Achieving the energy transition is vital for Europe to remain a global industrial power.

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CHRISTINE LAGARDE PRESIDENT ECB

Procrastinating the transition and climate goals will increase the bill to be paid.

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WERNER HOYER PRESIDENT EIB

Until we fully achieve the energy transition, Europe will remain an easy hostage.



Freedom, Peace & Energy Independence.

YOU ARE EUROPE.

The **European Commission's** "You are EU" campaign also calls on everyone to turn the challenges we face into a better future through clean energy produced in Europe.



Climate change is faster than we thought!

FATIH BIROL
EXECUTIVE DIRECTOR IEA

Today compared to 2021, the **window of opportunities** to keep the temperature rise within **1.5°C has narrowed**. If this window still **remains open** it is only **because of the growth of renewables and electrification**.



Sources | Il Sole 24 Ore; Financial Times; IEA, Net Zero Roadmap: A Global Pathway to Keep the 1.5 °C Goal in Reach

To achieve the **+1.5°C target**, we need to **triple new RES annual installations!**

According to IRENA, it is technically feasible and economically viable to increase from the **current 300 GW/year** of new renewable installations worldwide to **1,000 GW/year by 2030**.

Renewable energy reduces costs and secures supplies

According to IRENA, in 2022, renewable electricity allowed to save:

\$521 bn Worldwide

\$176 bn in Europe

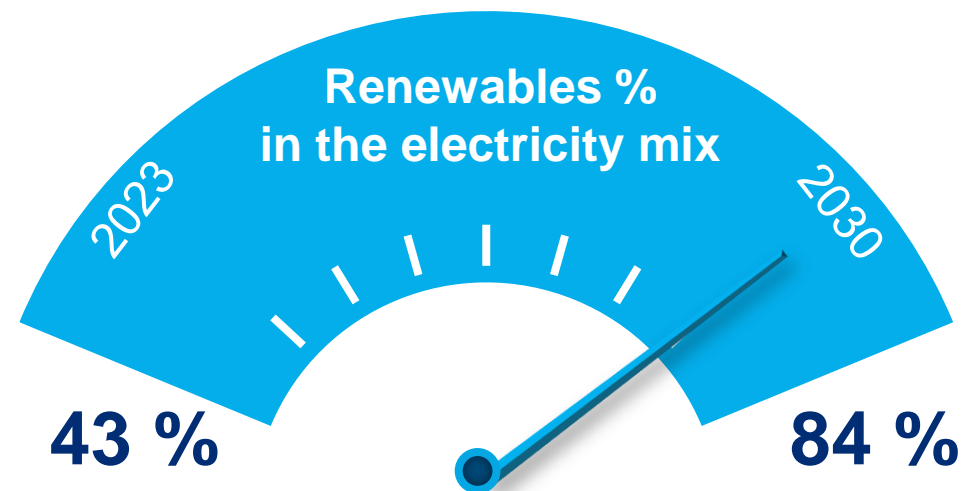
\$25 bn in Italy (EF estimates)

This is why more than 80 % of new electric power power built worldwide in 2022 is renewable (300 GW out of 360 GW).

2030 Electricity Plan, consistent with REPowerEU: 84% renewables in the electricity mix

143 GW of installed
renewable capacity
are needed!

To ensure the safety and adequacy of
the system, it is also necessary to **make
the capacity mechanism structural
and to develop the grid.**



Electricity demand will grow
from 305 TWh in 2023 to 360 TWh in 2030

To achieve 143 GW installed...

...we need to build **12 GW** of new **renewable power** per year in Italy.

Hence, over the period 2024-2030, we have to install at least 84 GW, of which:

56 GW Solar PV

26 GW Wind

2 GW Hydro, Bioenergies, Geothermal

...we need also to build **80 GWh** of **large-scale storage**.

143 GW



6 GW*

Installed in 2023

3 GW**

Installed in 2022

Out of the 6 GW that we estimate being installed in 2023, more than 4 GW will be small-scale power plants

** Out of 3 GW installed in 2022, 2 GW are small-scale power plants

Benefits for Italy of the 2030 Electricity Plan

320bn€

Investments
of the electricity
sector and its
industrial supply
chain.

360bn€

Economic benefits
in terms of value added
for the supply chain and
related industries, and
growth in domestic
consumption.

-270mln t CO₂

Lower emissions
of CO_{2eq} of the electricity
sector over the 2030
Plan period.

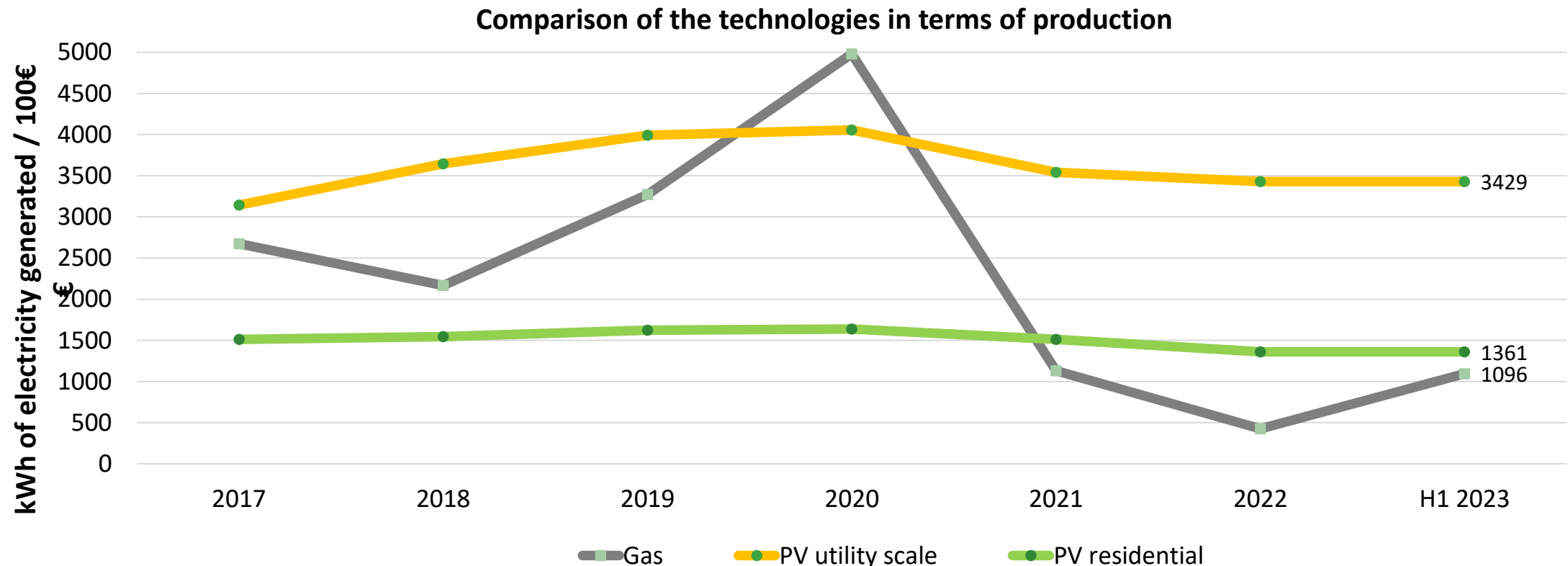
540k

New jobs
in the electricity sector and its
industrial supply chain,
additional to the current
120,000.

There is a difference between importing PV technologies and importing gas



- Considering an input budget of €100, the graph shows the kWh output achievable for the three types of technologies analyzed.
- Excluding the anomalous trend in 2020 (COVID year), the higher economic efficiency of electricity generation from a utility scale PV plant, compared to the generation from a gas plant, is evident. Also the values for residential PV systems resulted to be higher than gas plants' from 2021 onward, i.e. with the new fuel price level.



Are roofs enough to meet the 2030 target? Let's provide clarity.

Avg. LCOE
100% on roofs

180 €/MWh

2030 PLAN
30% on roofs and 70% ground

110 €/MWh

Avg. LCOE
100% ground

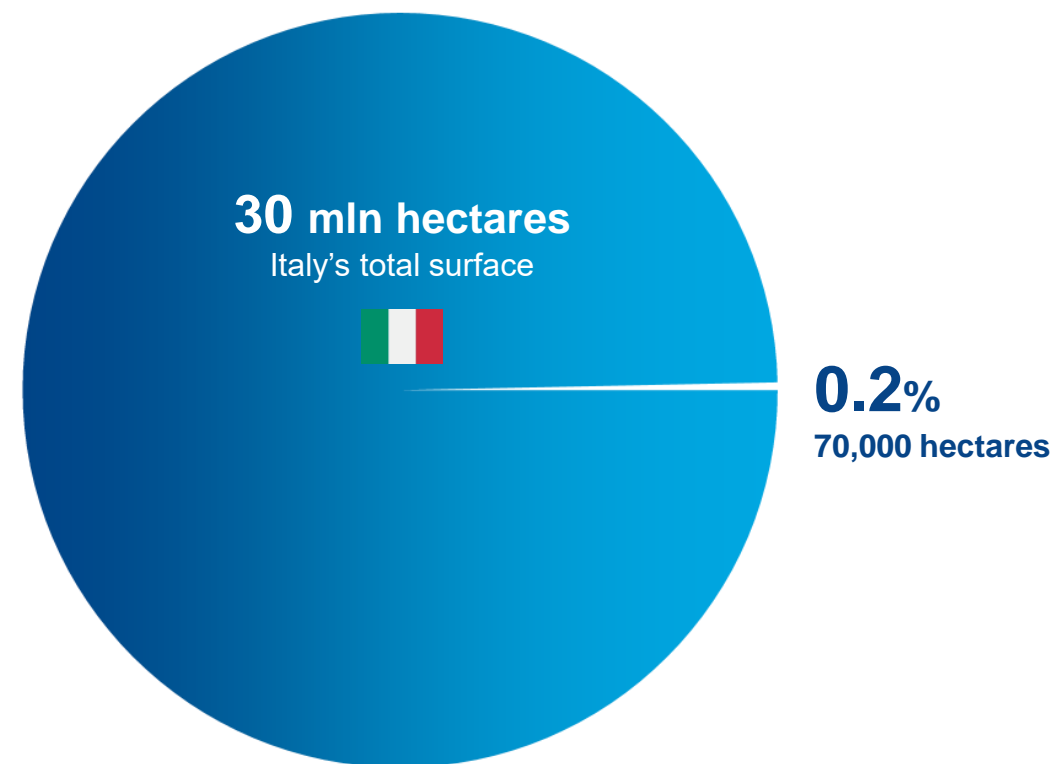
80 €/MWh

Rooftop PV plants show a power generation cost that is more than double of the cost related to ground-mounted plants. The 2030 Plan scenario shows savings of over € 20 bn on the electricity generation's side (2024-2030) compared to a 100% rooftop-mounted scenario.

Renewables do **NOT** take land away from agriculture and do **NOT** damage the soil

Reaching the **targets of the 2030 Plan** requires only **0.2 % of land**.

- Moreover, **PV plants do not entail soil waterproofing** and/or permanent artificial coverings (unlike concrete of buildings and asphalt on roads).
- Once the useful life of the PV plant is over, the area used by the plant **can be reverted to its previous use**: companies are obliged to revert areas to their original condition.

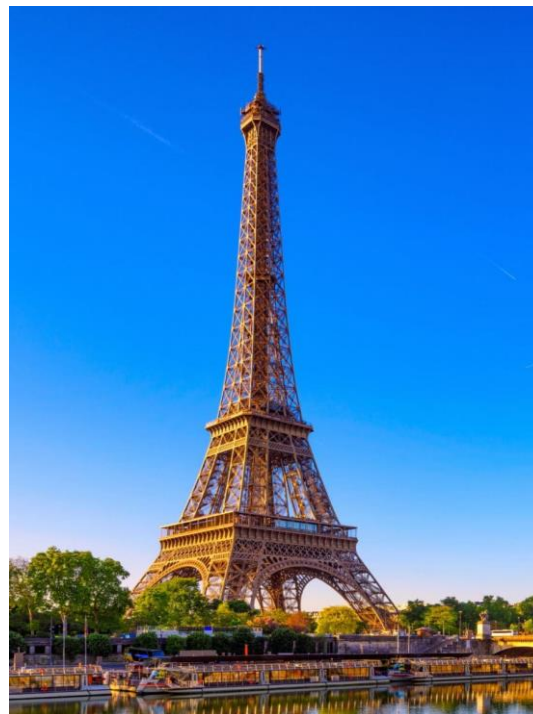


"Landscape is a molded shape that evolves only by living" J.W.Goethe

Since their origins, humans have modified territories **to meet evolutionary needs**, changing the landscape to cultivate, work, move, and inhabit. Along with the landscape, the sense of aesthetics has evolved as well.

Railways

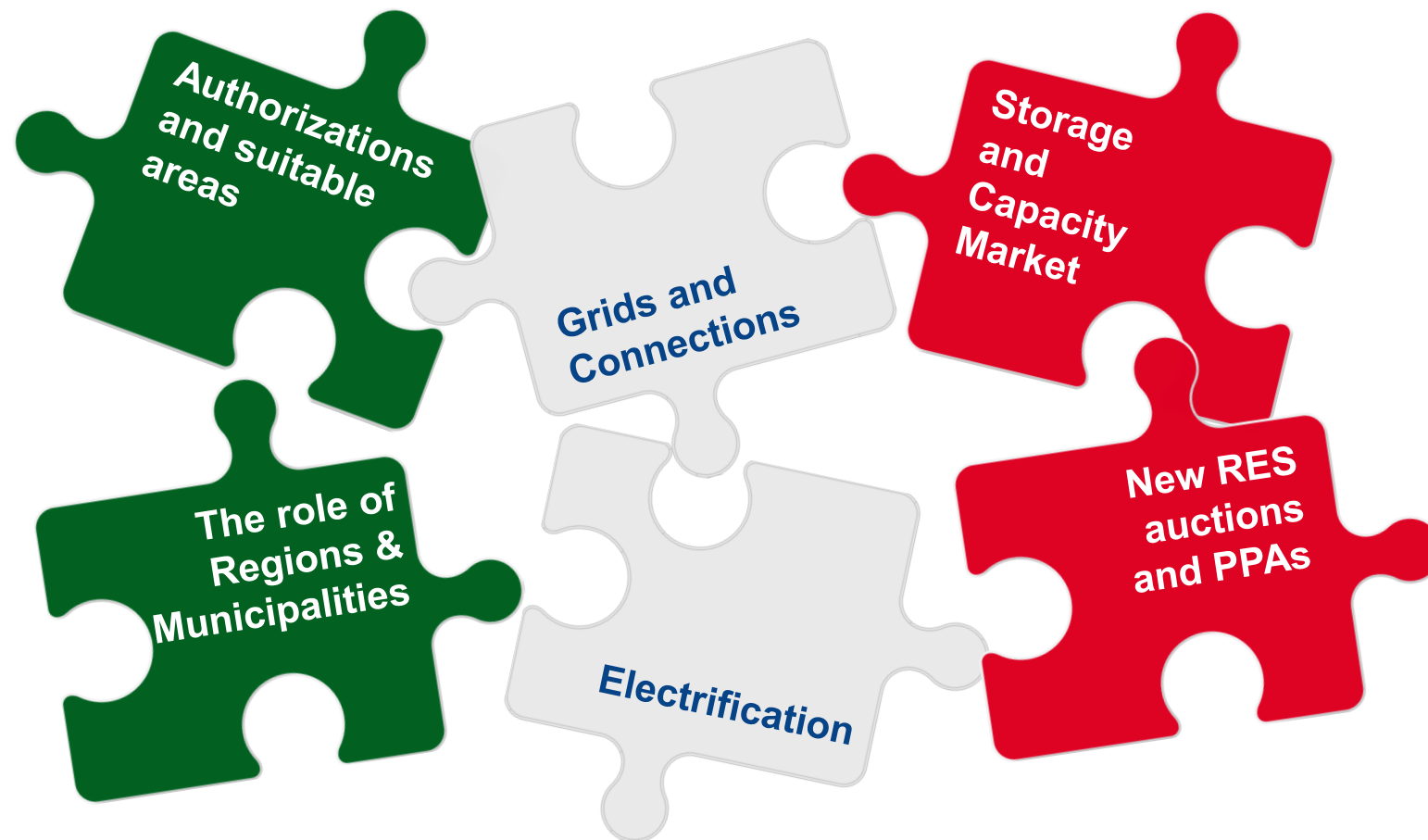
Even for railways there has always been opposition. Instead, today we are witnessing a valorization of historic trains, such as the one in the Valley of the Temples in Sicily and those that run through Campania, Basilicata and Puglia, attracting tourists.



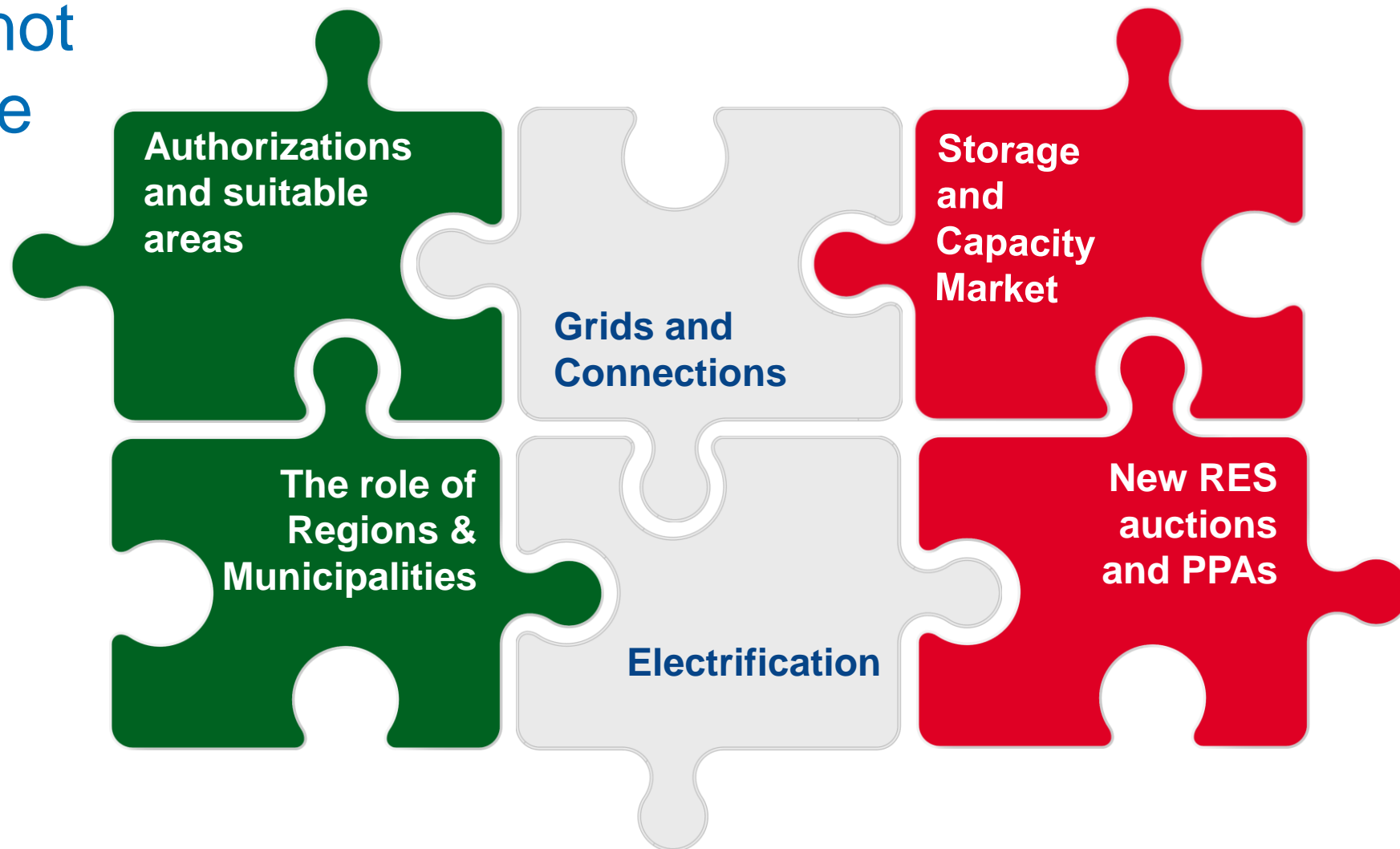
The Eiffel Tower

If in the late 19th century, the resistance of the many who saw the Eiffel Tower project as a disfigurement to the city's skyline had won, a blight on the landscape, we would not have one of the most famous monuments in the world today!

The energy transition is not an impossible puzzle



The energy transition is not an impossible puzzle





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Thank you for the attention

Agostino Re Rebaudengo

President of Eletticità Futura

