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Smart Energy International & Enlit Europe 365
Country Spotlight Italy

Ecological transition **Unmissable opportunity for Italy**

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We are the leading association in Italy representing companies operating in the electricity sector.

Over 500 companies of all sizes active in the production and marketing of electricity from conventional and renewable sources, distribution, in providing services for the sector, are part of Eletticità Futura.

70 %
of the market

75,000 MW
installed electrical power

40.000
workers

1,150,000 km
distribution lines

The European Union has set the target for reducing CO₂eq emissions at least 55% by 2030 compared to 1990.

In Italy, the electricity sector will contribute over 50 Mt of emissions avoided in 2030 compared to 2020, i.e. 30% of the total 180 Mt to be abated.

	2020 Preliminary	2030 Target NECP 2019	2030 Target NECP 2021
GHG Reduction % with respect to the 525 Mt in 1990	21 -110	40 -210	55 -290
Renewables % on gross electricity demand	38	55	70
Renewables % on gross energy demand	18	30	40

NOTE

The 2020 preliminary data are elaborated on Electricity Futura on European Commission data are intended net of the COVID-19 effects.
Italian National Energy and Climate Plan (NECP) 2021 means the update of the NECP 2019 in line with the European decarbonisation target of - 55% CO₂eq.
The NECP 2021 targets for renewables are Elettricità Futura estimates based on NECP 2019 and European Commission data.
180 Mt of greenhouse gas reduction: of these, 50 Mt will be achieved with the decarbonisation of the electricity sector and 130 Mt will have to be achieved by heating and transport and other sectors.

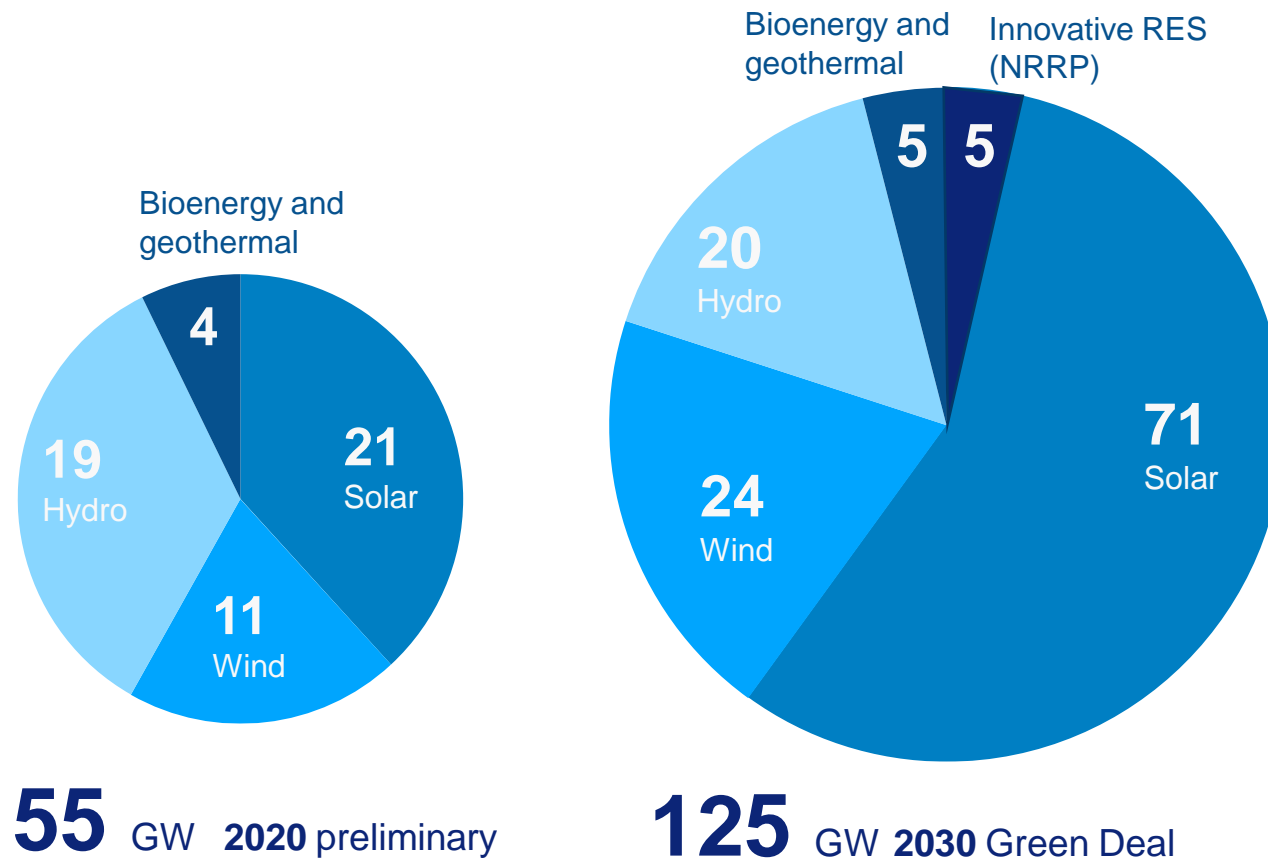
Evolution of the RES electrical capacity by source in 2030 [GW]

The necessary incremental capacity will be 70 GW, including about 5 GW foreseen by the National Recovery and Resiliency Plan (NRRP) of which:

+50 GW solar
|
solar

+13 GW wind
|
wind

Of the additional 70 GW, **15 GW** will be of distributed capacity.



NOTE

Preliminary 2020: EF calculations based on Terna data.

Green Deal 2030: EF preliminary estimates based on Terna, RSE and European Commission data. The incremental 70 GW includes both new capacity and the increase in power due to the repowering of existing plants.

If effectively implemented, the Green Deal will imply in the Italian electricity sector by 2030 :

50 Mt/CO₂eq

Avoided emissions

90.000

New jobs

100 B€

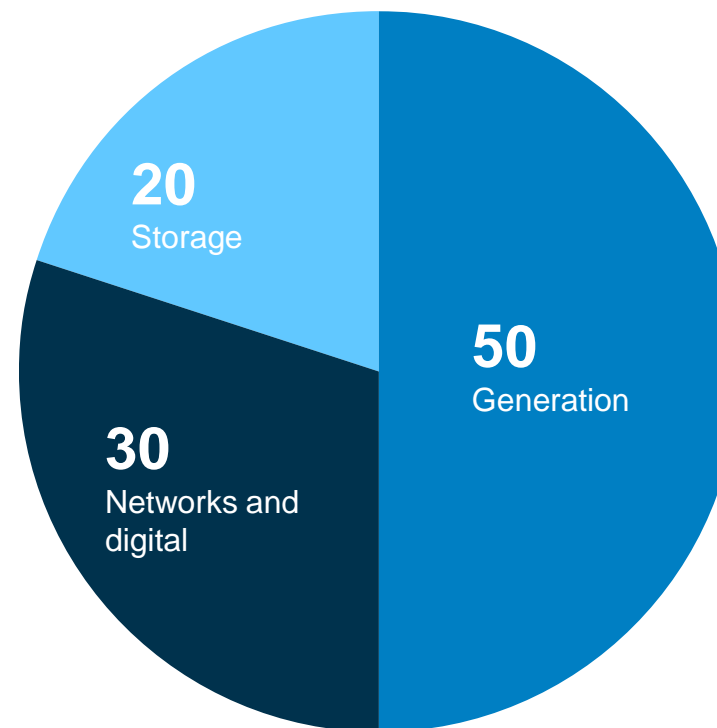
Investments

100 billion total benefits for the Italian system, in terms of added value, avoided emissions and the creation of new jobs.

NOTE

Elettricità Futura's elaborations on NECP and European Commission data.

100 billion: considering the economic benefits in terms of added value, avoided emissions and creation of new jobs in 2030.



2021-2030 investments [%]

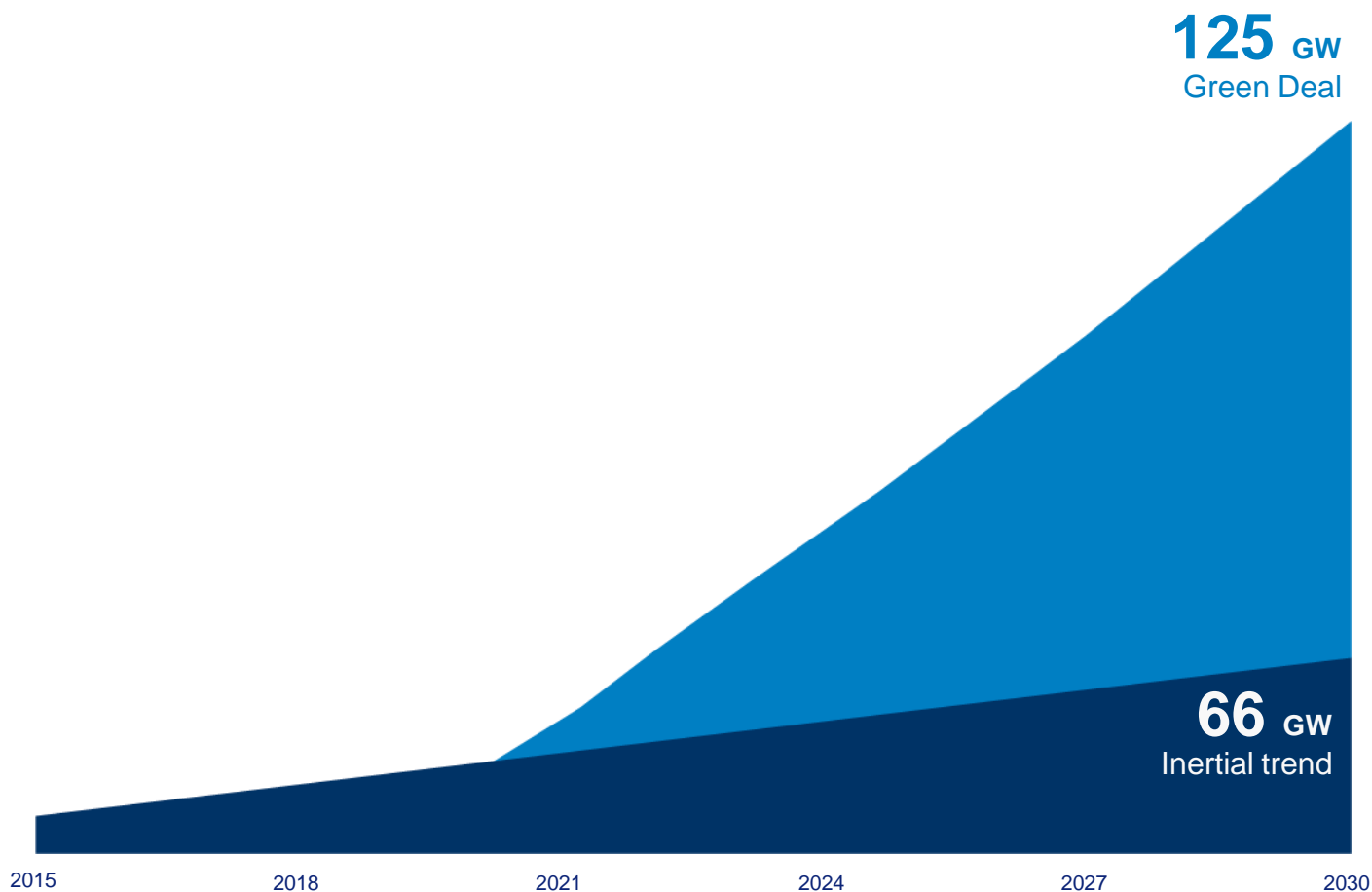
With the current trend
the 2030 targets will be achieved in 2090

+ 7 GW/year

are the renewable plants to be built to reach the Green Deal 2030 target.

+ 0.8 GW/2020

is the renewable capacity installed in 2020 of which 120 MW utility scale photovoltaic (-50% compared to 2019) and 85 MW wind power (-80% compared to 2019).



NOTE

EF elaborations on NECP data - December 2019 and European Commission. In 2015, there were 51 GW. 2030 power according to the inertial trend of 66 GW: estimated with an average annual increase in renewable capacity of 1 GW.

Some initial measures proposed by Elettricità Futura:

- **Reduce all the terms of the authorization procedures**, foreseeing the closure of the procedure automatically successful once they have elapsed.
- Concentrate the subjects participating in the authorization process, providing for an **exclusive competence with the Ministry for Ecological Transition** and limiting the function of the Culture Ministry and the Superintendencies.
- **Provide for simplifications / exemptions from the Environmental Impact Assessment** for plants in particularly suitable areas ("Aree Idonee o Vocate").
- **Simplify the procedures for repowering and revamping of generation plants** and for **storage**, as well as procedures for **small hydroelectric** plants.
- **Review the legislation for the renewal of concessions for large hydroelectric plants** in order to make it homogeneous between the Regions, to ensure adequate enhancement of existing assets and to encourage a new investment cycle.
- Realise the **full digitalization of the authorization procedures** and guarantee a concrete collegiality for an overall evaluation of the benefits deriving from the projects.
- Promptly transpose the EU Market Directive (whose deadline expired at the end of 2020) including **micro-cogeneration** among the technologies that can be included in **energy communities**.

The implementation of the Green Deal could trigger at least 100 billion investments and 90,000 new employees in the electricity sector alone. We have a responsibility to make it possible!

Elettricità Futura intends to participate in the recovery of our country!

Elettricità Futura
#GreenDealOra

