

How has Italy's energy system changed since 2010?

Italy's energy system has changed notably since 2010 and today the country's energy mix includes more natural gas and renewable energies and less coal and oil.

Does Italy have a renewable power system?

Italy, with already more than 35% of electricity coming from renewable sources, is one of the leading countries in the transition towards renewable power systems. With the new National Energy and Climate Plan Italy sets new ambitious targets to further increase the share of renewable electricity.

Who provides high voltage electricity in Italy?

The transmission of high voltage electricity in Italy is provided by Terna. The transmission network has 63,500 km of HV lines, 22 interconnection lines with foreign countries, 445 transformer stations.

What are the main sources of electricity in Italy?

Wind power, hydroelectricity, and geothermal power are also important sources of electricity in the country. Italy abandoned nuclear power following the 1987 referendum in the wake of the 1986 Chernobyl disaster, and nuclear power in Italy has never been greater than a few percent of total power generation.

What is the breakdown by sector of final electricity consumption in Italy?

According to the International Energy Agency, the breakdown by sector of final electricity consumption in Italy has evolved as follows: The transmission of high voltage electricity in Italy is provided by Terna. The transmission network has 63,500 km of HV lines, 22 interconnection lines with foreign countries, 445 transformer stations.

Does the Italian power system need more flexibility?

The results show that while installing the planned capacities of wind, solar and battery energy storage, the Italian power system requires further flexibility and is in its optimal state with 5-7 GW of additional flexible gas-fired power generation capacity. The lowest system cost is achieved with 6 GW of new flexible capacity.

Given its geographical location, Italy has a strong resource base to replace some of its electricity from natural gas with renewable power generation capacity. In 2020, the share of renewables in gross electricity consumption was 38% (with hydro being the main source), a substantially higher share than the target for 2020 of 26.4%.

Italian electrical system: Discover how it works, how it has evolved and analyze data of Italian electrical system collected by Terna and over 4,500 operators.

The study is conducted by modelling the Italian power system on an hourly level, focusing on the year 2030,

when the planned capacity additions in renewable generation and energy storage are in place and operational.

Spin-off of Enel Group, by way of implementation of Italian Legislative Decree No. 79/99 which, within the context of the process for the deregulation of the Italian electricity sector, in 1999 sanctioned the separation between ownership and management of the national transmission grid Grid Demand Energy mix --74.440km of transmission lines

The electricity mix in Italy uses both conventional and renewable sources. They are plants powered by coal, fuel oil and natural gas; multi-fuel power plants with coal and oil or natural gas and oil; gas turbine plants; combined cycle gas turbines (CCGT); hydro power with storage or run-of-river; wind power; solar photovoltaic; geothermal

The document also offers a detailed analysis of the development scenarios of the Italian energy market, identifying the guidelines for growth in the electricity and natural gas sectors, which are fundamental vectors for setting our country on a path of sustainable development.

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Italy has made strong progress in the development of energy policy, notably through the publication of the National Energy Strategy in 2013, which sets clear goals: reduce energy costs, meet environmental targets, strengthen security of energy supply and

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Italy started to produce nuclear energy in the early 1960s, but all plants were closed by 1990 following the Italian nuclear power referendum. Much concern has arisen because Italy is in a seismically active area, placing it at greater risk for a nuclear accident.

How the electricity system works. Terna occupies the central position in the supply chain. Discover our responsibilities for the transmission of electricity.

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Terna"s main regulated activities are the transmission and dispatching of electricity in Italy with a fundamental role of TSO and ISO. Read more about it.

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