

# Solar energy via Italy





## Overview

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In the 2013 National Energy Strategy (NES), Italy established energy aims to achieve by 2020 that rises the 17% EU target for renewable energy in final energy consumption to 19% or 20%. Energy efficiency, but also renewable energies, plays an important role for this strategy.

Solar power is an important contributor to electricity generation in , accounting for 11.8% of total generation in 2023, up from 0.6% in 2010 and less than 0.1% in 2000. Total installed solar power capacity in the country reached 30.3.

Government targets for (RES) and different support schemes, especially for solar photovoltaics, resulted in an increase from 7.9% (2005) to 18.2% (2015) in total share of renewable energy in the (TPES).

Italy has long sought to develop alternative energy resources due to having few domestic fossil fuel resources. Around 1850 wood, and straw were the main energy sources for many European countries. In Italy, due to a lack of coal, renewable .

The entire nation of Italy retains high potential for solar energy production, ranging from 3.6 kWh per square meter per day in the Po river plain to 5.4kWh per square meter per day in . .

Installed capacityInstalled capacity in Italy was less than 100 MW before 2008. Growth accelerated during 2008 and 2009 to reach over 1,000 MW installed capacity and tripled during 2010 to exceed 3,000 MW. The standout boom year in Italy was.

Italy currently maintains various (CSP) projects. Concentrated solar power plants concentrate solar energy into single points of collection with, for instance, mirrors, to maximise energy capture. Four types of CSP technologies are.

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### Task 1 National Survey Report of PV Power Applications in Italy 2018



Italy in 2018 installed 48.225 photovoltaic plants for a new capacity of 440 MW. The cumulative power at the end of the year is 20.108 MW. Plants commissioned in 2018, mostly in the ...

### EC approves Italy's EUR9.7 billion renewables aid scheme

4 · Italy's EUR9.7 billion scheme will support the construction of 17.65GW of new renewables capacity. Credit: Glyn Lowe via Flickr. The European Commission (EC) has approved a EUR9.7 billion (US\$10



### The Right Toolbox for Pushing Italy Towards 80 GW of PV by 2030

In 2023, Italy upgraded its already substantial PV capacity base with 4.8 GW of new solar capacity, thereby again ranking as one of Europe's largest three solar markets. The country is on track to meet the targets set in its National Energy and Climate Plan (NECP) for 2030, but will need to ramp up its efforts further to meet the more

### Italy's solar renaissance

Italy currently has 140GW of solar PV projects in its grid connection queue. Image: Juwi . In 2023, Italy installed over 5GW of new solar PV generation capacity, by some distance the most



### Italy Rooftop Solar Country Profile

Italy brought 1,058 MW of solar photovoltaic (PV) parks in the first quarter of 2023, reaching a cumulative installed capacity of over 26,100 MW, shows data released by the domestic solar energy association, Italia Solare.

### Italy

The five most solar rich regions are Lombardy with 3.15 GW cumulative installed capacity (having installed 438 MW in 2022), followed by Puglia with 3.06 GW, Emilia Romagna with 2.51 GW, Veneto with 2.48 GW and Piedmont with 1.99 GW. Looking to the south of Italy, Sicily is worth a mention.



### Solar energy in Italy: how the photovoltaic market will change

In the first quarter of 2023, Italy exceeded 26 GW of installed connected power of photovoltaic systems. Over 1 GW in the first three months of the year, of which 54% in residential. In the whole of 2022 the increase was 2.48 GW (+164% over 2021), of which residential accounted for 44%, commercial and industrial 28%, and utility scale





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## National Survey Report of PV Power Applications in Italy 2022

Italy in 2022 had a significant growth of PV installations, with almost 2,5 GW of new capacity for a number of around 210.000 plants (see note 5 of table 1 and 2). The number and the capacity of plants installed during 2022 are the highest values observed in the last 9 years. Total commissioned capacity at the end of 2022 is around 25 GW.

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## Solar photovoltaic industry in Italy

Italy is one of the leading solar photovoltaic electricity consuming countries in the world. It is also among the largest markets for cumulated solar PV capacity in the European Union,



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