

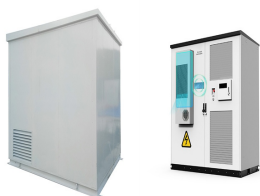
ITALIAN LOMBARDY ENERGY STORAGE SYSTEM



LOMBARDY ENERGY CLEANTECH CLUSTER 2024 PRESENTAZIONE.
2014 2015 2020 Italy CLAUDIO FIORENTINI E-DISTRIBUZIONE
DESDEMONA OLIVA Gruppo CAP STEFANO DUBINI a?cSpecific
objective: Smart energy systems, grids and storage Partner politico:
Regione Lombardia - DG Enti Locali, Montagna, Risorse Energetiche,
Utilizzo Risorsa



The majority of storage systems, totaling 516,475 units, were powered by lithium-ion technology. According to ANIE Rinnovabili, the national renewables association, Italy had 518,950 distributed storage systems connected to renewable energy projects at the end of December 2023.



La vasta gamma dei sistemi di accumulo "all in one" Energy Storage puo
soddisfare le esigenze per la seguente tipologia di impianti: a?c nuovi
impianti - Energy Storage Hybrid monofase 3Kw, 4Kw, 5Kw e 6Kw a?c
nuovi impianti - Energy Storage Hybrid trifase 5Kw, 8Kw e 10Kw a?c
impianti esistenti - Energy Storage Retrofit lato AC 3Kw, 4Kw e 5Kw mono



The second largest market by volume in Europe in 2016 was the Italian
one, where the Energy Storage is growing rapidly in the residential,
commercial and industrial market. but especially to the ESS Grant of the
Lombardy region for PV systems up to 20 kWp. A grant recognized by up
to 50% of intervention expenditure, including VAT, up to a



Energy Dome solves the problem of long-duration energy storage. Today.
Our technology is made with off-the-shelf components; it's scalable to your
needs, offers easy maintenance and is made with sustainable materials.
It's the only solution that a?|

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Photovoltaic: The increase in connections and storage systems over the years. This year, Lombardy, once again, has been confirmed as the region capable of absorbing and releasing electricity for a value of 163.93 MWh, 100 times more than Valle d'Aosta which, on the other hand, is the region with fewer storage systems and with less energy



Rome a?? July 4, 2023 a?? Matrix Renewables ("Matrix"), the TPG Rise-backed global renewable energy platform, today announced that it has started a partnership with Gravel A through a proprietary Development Service Agreement (DSA) for the development of up to 1.5 GW of standalone Battery Energy Storage Systems (BESS) in Italy. The first stage of this partnership a?|



In 2016, the plan has a budget of 2 million euros, enough to support the installation of about 500 energy storage systems. In June 2017, the Italian Energy Agency gestore Dei servizi energetici



In a comprehensive review of 2023, Italy witnessed the connection of 287,706 energy storage systems, amassing a power capacity of 2.02 GW and a storage capacity of 3.84 GWh. This represented a notable 89% increase in connected capacity compared to the previous year, with PV installations below 20 kW contributing significantly (92%).



With the resolution of 2 August 2022, the Regional Council approved the "Acknowledgment of the proposal to update the 2020 Energy, Environment and Climate Regional Program (PREAC)".. The PREAC, taking up and strengthening the objectives proposed by the guidelines, acts according to the recent evolution of the national and European policy, and aims to reduce the emission of a?|

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At the end of March, Italy had 18,036 storage systems linked to renewable energy power generators, according to figures released by national renewables association ANIE Rinnovabili.. Some 2,857



fondazione symbola and enel present 100 italian renewable energy stories
italy is the second largest european producer of renewable energy technologies after germany in italy, the renewable energy supply chain consists of 37,655 companies, a third of which are concentrated in lombardy, lazio and the veneto italy at the forefront for the



In Italy the regional government of Lombardy has approved a similar scheme, offering a?!10m investment grants to state and regional public entities installing solar-plus-storage systems. They will receive a 50% rebate on the price of solar-plus-storage systems or 100% of the cost of storage systems to be installed at existing solar arrays, with



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NHOA Energy is NHOA Group's business unit that designs and delivers turn-key energy storage systems, transforming solar and wind farms into sustainable energy sources available 24/7. As a pioneer in microgrids with renewables and green storage systems, NHOA Energy ranks among the top global a?|



In 2016, the scheme had a budget of a?!2 million a?? enough to facilitate the installation of around 500 storage systems. In June 2017, the Italian energy agency, Gestore dei Servizi Energetici

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A solar PV farm on Terna's grid in Italy. Image: Terna. Battery energy storage system (BESS) capacity in Italy reached 587MW/1,227MWh in the first three months of 2022, of which 977MWh is distributed energy storage, according to the national renewables association, ANIE Rinnovabili. Like Germany, Italy's BESS market is currently dominated by the residential a?|



are located in Lombardy employing more than 4,100 people production site is enabled by 50% of the Italian energy plant building industry approximately 40% of the Italian renewable enterprises The energy production system has approximately 28,700 employees and a turnover of 9 billion euro Presence of Lombardy Energy



Energy Storage. In the first quarter of 2024, the number of newly connected energy storage systems decreased by 18%. According to data processed and disseminated by Anie Rinnovabili from Terna, 71,123 new energy storage systems were connected in Q1 2024, compared to 86,861 systems in the same period of 2023, marking an 18% decline.



Battery energy storage system (BESS) capacity in Italy reached 587MW/1,227MWh in the first three months of 2022, of which 977MWh is distributed energy storage. Italy Reaches 1.2GWH of Energy Storage in Q1 2022 18 May 2022 by energy-storage.news A solar PV farm on Terna's grid in Italy. Lombardy, where Milan is, is the a?|



In 2023, residential energy storage continued to dominate Italy's energy storage landscape, representing the largest application scenario for newly added installations. Residential PV systems retained their prominence, accounting for 82% and 73% of new installations, followed by utility-scale storage and commercial & industrial (C& I) energy

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Until a few years ago the legislation mentioned only pumped hydro and no other forms of energy storage. The unexpected boom in PV installation increased the stress and the risks faced by the Italian network, so Legislative Decree no. 28/2011 stated that the TSO may develop storage systems in order to increase the despatch of intermittent



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. The storage systems market. Agri-PV C& I Charging E-Mobility Energy Storage Italy Q Cells manufacturing

APPLICATION SCENARIOS



The region of Lombardy, with 1,454 MWh of storage capacity, leads Italy for energy storage systems connected to photovoltaics. It is followed by Veneto, with 1,081 MWh; Emilia-Romagna, with 749



Northern Italy, comprising the provinces of Lombardy, Venetia and Emilia Romagna, account for more than 50% of the storage capacity, mostly represented by small distributed systems (E3 Analytics, 2023). including energy storage systems. Italy also plans to earmark a?€675 million for offshore wind projects that use energy storage (E3



The development of Battery Energy Storage Systems (hereinafter "BESS") in Italy has been limited by the fact that the spread of renewable sources is not such as to produce significant price

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Italy added 303 MW/632 MWh of distributed energy storage capacity in the first nine months of 2022. The segment continues to grow in the country, led by the regions of Lombardy and Veneto.



Energy S.p.A., founded in 2013 by Davide Tinazzi, Andrea Taffurelli and Massimiliano Ghirlanda is a successful Italian company offering energy storage systems (ESS, Energy Storage System), a?



NHOA Energy is NHOA Group's business unit that designs and delivers turn-key energy storage systems revolutionizing the functionality of solar and wind farms, making them a reliable and sustainable energy source. Italy Share Capital of EUR 15,000,000 a?? P.IVA 09315030966 a?? REA MI-2082791 a?? Switchboard: +39 0249541830 PEC: nhoa.energy



The Department of Environment, Energy and Sustainable Development of Lombardy a??Italy's wealthiest, most dynamic region a?? has allocated another a?!20 million in rebates to promote the use of