

# EUROPE URGENTLY NEEDS ENERGY STORAGE



Does the EU need energy storage solutions? The EU urgently needs a massive and rapid roll-out of energy storage solutions. Some of the solutions we have today to balance renewable generation ??? mostly dispatchable fossil generation such as gas-fired power plants ??? run contrary to Europe???'s climate,energy independence,and security of supply ambitions.



How much energy storage will Europe have in 2022? Many European energy-storage markets are growing strongly,with 2.8 GW(3.3 GWh) of utility-scale energy storage newly deployed in 2022,giving an estimated total of more than 9 GWh. Looking forward,the International Energy Agency (IEA) expects global installed storage capacity to expand by 56% in the next 5 years to reach over 270 GW by 2026.



Why is energy storage important in Europe? The 18 May REPowerEU plan must now also recognise the critical role of storage in delivering clean,home-grown and affordable energy for all Europeans???. In November 2022 EASE together with Breakthrough Energy,SolarPower Europe and WindEurope have launched a campaign to stress the importance of energy storage for Europe to achieve energy security.



What is the future of energy storage in Europe? Total installed non-hydro storage capacity in Europe reached 2.7 GWh at the end of 2018 and is projected to be 5.5 GWh by the end of 2020, according to the European Energy Storage Association. This includes household systems, which comprise more than one-third of 2019-20 additions.



Does the EU support energy storage projects? EU countries do not specifically grant economic support to energy storage projects. However,since the combination of energy storage and renewable energy generation offers system benefits,support mechanisms for renewable energy should not exclude such hybrid projects[generation+storage].

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How much energy storage capacity does the EU need? These studies point to more than 200 GW and 600 GW of energy storage capacity by 2030 and 2050 respectively (from roughly 60 GW in 2022, mainly in the form of pumped hydro storage). The EU needs a strong, sustainable, and resilient industrial value chain for energy-storage technologies.



For instance, the European Association for Storage of Energy (EASE) states that energy storage targets "are a necessary complement to existing EU climate targets and will allow Europe to foster a local, sustainable ???



The European Commission needs to reform its electricity market design to place a value on flexible balancing power capacity for the EU to achieve its net zero targets and ???



Energy storage should also be supported through countries' national energy and climate plans (NECPs), while the EU urgently needs an energy storage strategy similar in scope and ambition as the existing ???



BRUSSELS, Belgium, April 14 -- SolarPower Europe issued the following news release on April 13, 2022: On 12 April, Breakthrough Energy, the European Association for Storage of Energy - ???

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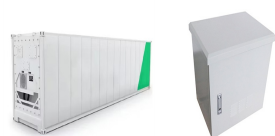
In its 2025 Summer Supply Outlook report, published today, the European Network for Transmission System Operators for Gas (ENTSOG) confirmed that gas storage was particularly important last winter, covering ???



The open letter said the EU urgently needs a massive and rapid rollout of energy storage solutions, pointing out that most of today's grid balancing is being done by carbon-emitting resources like gas-fired power plants.



The world urgently needs new types of energy storage. Developing completely new concepts for batteries and exploring their potential is currently a lengthy process, as Corsin Battaglia, head of Empa's Materials for ???



"We need to urgently implement these measures and call on the European Commission to report on the EMD implementation ahead of the first Energy Council in 2025." However, with that report, the European Market ???



As the EU enters a new five-year term, it faces critical challenges in strengthening global competitiveness, securing its energy system, and achieving climate targets. The Energy Storage Coalition emphasises that ???

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"Current market trajectories for storage will fail to meet these requirements of the energy system by 2030 if urgent measures to boost deployment are not taken now," the organisation states in ???



EASE has published an extensive review study for estimating Energy Storage Targets for 2030 and 2050 which will drive the necessary boost in storage deployment urgently needed today. Current market trajectories for storage ???



Therefore, the EU urgently needs to adopt energy storage targets and a strategy to accelerate the necessary storage deployment today. By endorsing energy storage targets, stakeholders can send a clear message: to avoid fossil fuel ???