Should the EU develop a new energy storage strategy?

The European Parliament has called on the Commission to develop a new comprehensive EU energy storage strategy which could create new market incentives and help accelerate recovery.

Why should energy storage technologies be deployed?

An appropriate deployment of energy storage technologies is of primary importance for the transition towards an energy system. For that reason, this database has been created as a complement for the Study on energy storage - contribution to the security of the electricity supply in Europe. The database includes three different approaches:

Does the European Court of Auditors support energy storage?

having regard to the briefing paper of the European Court of Auditors of 1 April 2019 entitled 'Review No 04/2019: EU support for energy storage', - having regard to its resolution of 15 January 2020 on the European Green Deal, - having regard to its resolution of 28 November 2019 on the climate and environment emergency,

What is the European Association for storage of Energy (EASE)?

*** About EASE: The European Association for Storage of Energy (EASE) is the leading member - supported association representing organisations active across the entire energy storage value chain. EASE supports the deployment of energy storage to further the cost-effective transition to a resilient, carbon-neutral, and secure energy system.

What are the EU regulations on Trans-European energy infrastructure?

23. OJ C 204,13.6.2018,p. 35. Regulation (EU) No 347/2013of the European Parliament and of the Council of 17 April 2013 on guidelines for trans-European energy infrastructure and repealing Decision No 1364/2006/EC and amending Regulations (EC) No 713/2009,(EC) No 714/2009 and (EC) No 715/2009 (OJ L 115,25.4.2013,p. 39).

What does 92/43/EEC mean for energy storage?

having regard to Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of



wild fauna and flora, - having regard to the briefing paper of the European Court of Auditors of 1 April 2019 entitled 'Review No 04/2019: EU support for energy storage',



Energy Efficiency supports innovation and market uptake measures for more energy-efficient technologies and solutions. Calls for proposals. Horizon 2020 is the EU's funding programme for research and innovation, with nearly ???80 billion of funding available over 7 years (2014 to 2020).



Energy storage technologies: All existing energy storage technologies with their characteristics. Front of the meter facilities: List of all energy storage facilities in the EU-28, operational or in ???



The European flywheel energy storage market is anticipated to grow considerably and reach a record CAGR of 9.18% in terms of volume, and 7.80% in terms of revenue during the projected period of 2020-2028.

12 Tsiropoulos I., Nijs W., Tarvydas D., Ruiz Castello P., Towards net-zero emissions in the EU energy system by 2050 ??? Insights from scenarios in line with the 2030 and 2050 ambitions of the European Green Deal, JRC118592 13 Study on energy storage - Contribution to the security of the electricity supply in Europe (2020): :

The Europe thermal energy storage market is expected to grow at a CAGR of more than 2.18% over the period of 2020-2025. The major factors driving the growth of the global thermal energy storage market increasing focus on renewable energy generation and increasing government initiatives for thermal power energy storage systems.

European Parliament resolution of 10 July 2020 on a comprehensive European approach to energy storage (2019/2189(INI)) The European Parliament, K. whereas pumped storage has accounted for more than 90 % of the EU energy storage capacity; whereas it currently plays an important role for balancing electricity demand with supply, large-scale









As the demand for flexible wearable electronic devices increases, the development of light, thin and flexible high-performance energy-storage devices to power them is a research priority. This review highlights the latest research advances in flexible wearable supercapacitors, covering functional classifications such as stretchability, permeability, self-healing and shape ???



Finally, 2020 also featured discussions and agreement on the follow-up to Horizon 2020, EU's flagship R& D programme. Horizon Europe will kick off in January 2021 with a budget of ???95.5 billion for 2021-2027. Dedicated calls will be launched to support research in all different types of energy storage technologies. EASE sees several



at a later stage or to deliver the heat directly. For example, solid-state thermal energy storage can be used for both purposes. Table 1. CETO SWOT analysis of the competitiveness of novel thermal energy storage technologies Strengths Promising research in novel thermal energy storage technologies, with several ongoing pilot projects.



The Energy Storage Europe exhibition will appear under the new name Expo for Decarbonised Industries to reflect the global shift toward a sustainable and regenerative climate-friendly future. In 2022 decarbonisation takes precedence over traditional methods of energy production and storage. Energy Storage Europe 2020 (Cancelled) 10 Mar - 12

SOLAR°

Utility-Scale ESS solutions

With the rapid advancements in flexible wearable electronics, there is increasing interest in integrated electronic fabric innovations in both academia and industry. However, currently developed plastic board-based batteries remain too rigid and bulky to comfortably accommodate soft wearing surfaces. The integration of fabrics with energy-storage devices ???







MOTION FOR A EUROPEAN PARLIAMENT RESOLUTION. on a comprehensive European approach to energy storage (2019/2189(INI))The European Parliament, ??? having regard to the Treaty on the Functioning of the European Union, and in particular to Article 194 thereof, ??? having regard to the Paris Agreement, ??? having regard to the United Nations Sustainable ???

SCILAR°



Volume 45, Issue 11, 28 February 2020, Pages 6793-6805. Technical potential of salt caverns for hydrogen storage in Europe. Unlike mechanical energy storage, Overall, European storage potential for salt caverns located in onshore areas is estimated to be 23.2 PWh H2, 19.0 PWh H2 of which is located in salt domes. Due to the lack of data

/ Policy Papers - Responses to Public Consultations Future EU Strategy for Smart Sector Integration. EASE submitted a response to the European Commission Public Consultation on Future EU Strategy for Smart Sector Integration. EASE believes energy storage is a key instrument enabling a smart sector integration.





This regional report provides a ten-year market outlook update (2024 to 2033) for Europe residential energy storage. It covers the current and emerging drivers and barriers, key market trends, policy updates and capacity outlooks for 20 European countries. It also provides insights into residential system costs and key residential battery vendors.

Energy Storage Innovations Europe 2019. Electric Vehicles: Everything is Changing Europe 2019 & 2D Materials Europe 2019. Sensors Europe 2019. Internet of Things Applications Europe 2019. Printed Electronics Europe 2019. Wearable Europe 2019. My Schedule. Filter agenda Show entire agenda. Wearable Europe 2020; Experience. Conference

The Energy Storage Grand Challenge (ESGC) Energy Storage Market Report 2020 summarizes published literature on the current and projected markets for the global deployment of seven energy storage technologies in the transportation and stationary markets through 2030. This unique publication is a part of a larger DOE effort to promote a full ???









To increase the share of energy from renewable sources in the European energy mix, MEPs want to step up storage solutions such as hydrogen or home batteries. Newsletter - 8-10 July 2020 -Brussels plenary session Newsletter - 8-10 July 2020 - Brussels plenary session Current page: Green Draft report on a comprehensive European approach

On 23 March 2021, EASE and Delta-EE launch the fifth edition of the European Market Monitor on Energy Storage (EMMES). The report reveals the effects of the pandemic on the energy storage market, with lockdown affecting commercial and industrial and behind-the-meter segments, while front-of-meter projects proved more resilient. Looking ahead, 2021 looks particularly strong for ???

An appropriate deployment of energy storage technologies is of primary importance for the transition towards an energy system. For that reason, this database has been created as a complement for the Study on energy storage contribution to the security of the electricity supply in Europe.. The database includes three different approaches:









The role of transmission and energy storage in European decarbonization towards 2050. Author links open overlay panel Rolf Golombek a, Arne Lind b, Hans-Kristian Ringkj?b b c see Europa (2020). In 2009, the EU formally adopted the objective to reduce GHG emissions by 80???95% by 2050 in comparison to 1990. Later, the European Commission

SCILAR°



levels of security of supply for all Member States at the 2030 and 2050 horizons, in the context of a total decarbonisation of

of the EU's climate and energy goals for 2020. Executive summary rends and roections in Euroe 7 Since 1990, greenhouse gas 2emissions in the EU () have been steadily declining. This trend continued in recent years, with emission reductions in the EU-28 falling





Energy storage can help increase the EU's security of supply and support decarbonisation. Since 2020, the Commission publishes yearly progress reports on the competitiveness of clean energy technologies that present the current and projected state of play for different clean and low-carbon energy technologies and solutions. The 2023 report

SCILAR[°]

The "Wearable Europe" exhibition is co-located alongside the "Internet of Things Applications" exhibition, the "Printed Electronics Europe" exhibition, and the "Energy Storage Innovations" exhibition, and altogether will feature 200 exhibiting companies.

companies. During the first quarter of 2020, EU coal demand declined by 20% and the share of renewables

declined by 20% and the share of renewables reached an all-time high, with lower generation from coal, gas and nuclear. For the year 2020 as a whole, EU energy demand is expected to be 10% below the 2019 levels, which would be twice the decline experienced during the 2008-09 financial crisis.







Energy storage additions in Europe 2022-2031, by leading country Goal for renewable energy capacity in the 13th five-year plan in China 2015-2020; U.S. small-scale energy storage capacity by



Yet, the number of initiatives that have a direct positive impact on energy storage are few. How they will be put into practice is unclear. 1. Recognition of the role of energy storage for e.g. system flexibility and in the context of renovations 2. Improve permitting processes for energy storage 14 Energy regulation in an age of crisis

