

The most high profile of those perhaps are oil & gas company BP and Bill Gates' impact investment group Breakthrough Energy Ventures, which has invested in numerous long-duration storage tech companies, ...

9 May, 2022 - BRUSSELS - The ("The Council") announced today that energy and environmental veteran Julia Souder was selected to be the organization's first CEO. Souder will lead the Council's strategy and vision to enable the advancement of long duration energy storage to the center stage of the energy transition worldwide.

Microsoft, Google and 10 other companies have joined the Long Duration Energy Storage (LDES) Council, a CEO-led organisation launched at COP26 in November to push for the global deployment of technologies that can store and discharge energy for eight hours or longer.

The Department of Energy has estimated that as much as 460 GW of long duration energy storage must be wired into the national power grid by 2050, requiring an investment of as much as \$330 billion. "Massive investments in energy storage will be required in the years ahead," said Matt Raiford, technical director of the Consortium for Battery ...

Long duration energy storage is defined as a technology storing energy in various forms including chemical, thermal, mechanical, or electrochemical. These resources dispatch energy or heat for extended periods of time ranging from 8 hours, to days, weeks, or seasons. Long duration energy storage is critical for decarbonizing the energy sectors.

After a decade of lithium-ion procurement, the leading clean energy states are finally turning their attention to long duration energy storage. Although it may still seem like a new idea, state-mandated procurement of energy storage has actually been going on for more than a decade. As of mid-2024, twelve U.S. states have set intentions to...

Glasgow, 04 November 2021 - The launch of the Long Duration Energy Storage (LDES) Council is announced today at COP26 with a mission to replace the use of fossil fuels in meeting energy imbalances with zero-carbon alternatives. The Council has united to provide guidance to governments and grid operators, and will publish a strategic report on LDES technologies, with ...

Long duration energy storage offers a superior solution. It complements transmission and renewables, moving energy through time to when it's most needed. It reduces ... The future of long duration energy storage - Clean Energy Council 2 Australia's power systems are going through a process of rapid decarbonisation. This is central to ...

The Long Duration Energy Storage Council commissioned this report to demonstrate the current and potential applications for member technologies to decarbonize industry. There are multiple long duration energy storage technologies commercially available and ...

The United Nations Climate Change Conference (COP29) was circled on the Long Duration Energy Storage Council's calendar since its date and location were announced nearly a year ago. The annual convening held this year in Baku, Azerbaijan, brought together world leaders, civil society, and representatives of industry, finance, climate ...

Some long-duration energy storage (LDES) technologies are already cost-competitive with lithium-ion (Li-ion) but will struggle to match the incumbent's cost reduction potential. ... An interesting parallel development is that in the past few days, the global Long Duration Energy Storage Council (LDES Council) announced the addition of the ...

Annual Report 2024. In its inaugural Annual Report, the Long Duration Energy Storage Council presents a deployment roadmap to spur action among key stakeholders and decisionmakers. The report offers a current perspective and accounting on the global policy, regulatory and market environment for LDES, along with updated data and industry use cases.

Baku: The world is not moving fast enough to decarbonise its energy systems to meet global climate commitments, according to a report from the Long Duration Energy Storage (LDES) Council. The Council's first Annual Report calls for an immediate scale-up of long-duration energy storage solutions to integrate the rapidly increasing renewable energy capacity coming ...

The LDES Council provides encouragement for the adoption of long duration energy storage and guidance on the implementation of the technology. Representing a wide spectrum of different technologies and approaches to energy storage, the Council provides analysis and background information along with facts on current deployment of long duration ...

Glasgow, 10 November 2021 - The creation of the Long Duration Energy Storage (LDES) Council was confirmed today with the signing at COP26 of a Statement of Intent between the 24 founder members, publicly and reciprocally signaling an intention to form officially in Q1 2022. The LDES Council, which aims to replace the use of fossil fuels in meeting energy imbalances with zero ...

Julia Souder, CEO of the Long Duration Energy Storage Council, explores energy storage as the cornerstone of power grids of the future.. This is an extract of a feature which appeared in Vol.35 of PV Tech Power, Solar Media's quarterly technical journal for the downstream solar industry. Every edition includes "Storage & Smart Power," a dedicated ...

The latest report from the LDES Council shows long duration energy storage paired with renewable energy is a viable, cost effective, and readily applicable option for industrial decarbonization. These technologies can reduce global industrial emissions by 65% using solutions that are already available. In mining, steel, cement, chemicals, food ...

The German government has opened a public consultation on new frameworks to procure energy resources, including long-duration energy storage (LDES). Under the proposed Kraftwerkssicherheitsgesetz, loosely translated as the Power Plant Safety Act, the Ministry for the Economy and Climate Change (BMWK) would seek resources, including 12.5GW of ...

The council said on November 23 it "will publish its first annual report on the need for long duration energy storage to reach NetZero carbon emissions. "The report, based on research and collaboration of council members, concludes that 1.5TW-2.5 TW and 85TWh-140 TWh long duration energy storage could be deployed globally by 2040.

Long-duration energy storage (LDES) capacity should reach 1.5 TW by 2030 and up to 8 TW by 2040 to achieve global decarbonization targets, says the LDES Council. Its annual report contains "seven enablers" to scale LDES, mostly hinging on ...

9 November, 2022 - BRUSSELS - The Long Duration Energy Storage Council ("The Council") released a report today during COP27 that quantifies the impact of thermal energy storage (TES) to deliver low-cost, reliable, secure and clean net-zero heat, complemented by other long duration energy storage (LDES) technologies. The Council will co-host a live panel discussion at 16:00 ...

Cruachan Dam, Scotland, an existing 440MW pumped hydro energy storage (PHES) facility, one of only four in the UK. Image: Drax Power. The UK's Department for Net Zero and Energy Security (DESNZ) has confirmed a new scheme today (10 October) aiming to stimulate investment in the country's long-duration energy storage (LDES) sector.

Because energy storage services can be provided by a range of distinct technologies, the Energy Storage Grand Challenge was established in 2020 across DOE offices to improve coordination and alignment of common goals for energy storage use cases, including the Long Duration Storage Shot. The Energy Storage Grand Challenge manages strategy ...

A new report by the Long Duration Energy Storage (LDES) Council says that thermal energy storage, or TES, has the potential to expand the overall installed capacity potential of LDES by to 2-8TW by 2040, versus 1-3TW without. This equates to a cumulative investment of US\$1.6-2.5 trillion, and would result in system savings of up to US\$540 billion a year.

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