

LDES COUNCIL BRITISH VIRGIN ISLANDS



What is the LDES Council? The LDES Council is an organization that brings together leading LDES technology providers, equipment providers, renewable energy companies, utilities, grid operators, investors, and end-customers. They have a common mission of accelerating the deployment of LDES solutions in support of a net-zero carbon power system.



What is the British Virgin Islands Legislative Council? The British Virgin Islands legislature consists of the House of Assembly of the British Virgin Islands (known under previous constitutions as the Legislative Council of the British Virgin Islands, often still abbreviated locally to "LegCo"), and is headed by the Monarch.



Why do we need LDEs? Incorporating LDES can help increase the security of supply and create new use cases for renewable energy. LDES can also unlock new opportunities that are not thoroughly addressed by shorter-duration storage solutions.



LDES will be pivotal in delivering a smart and flexible energy system integrating low-carbon power, heat and transport, and 20GW of LDES deployments between 2030 and 2050 could result in system savings of \$24 billion (US\$30.5 billion), the consultation outline said.

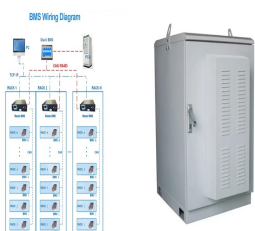


A 137MW BESS connected to the California grid by RWE recently. Most projects in the state are 4-hour lithium-ion BESS. Image: RWE. The Energy Research and Development Division of the California Energy Commission (CEC) has issued a report highlighting the importance of energy storage facilities with a discharge duration of eight hours or more in ???

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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.



The global LDES Council trade association "strongly recommends" maintaining an 8-hour duration. In May 2024, the NSW government released a consultation paper as part of a review of LDES technologies in the Australian state. The paper seeks feedback on several changes, including reducing the minimum duration of LDES infrastructure



The LDES Council is aiming for deployment of between 85TWh and 140TWh of long-duration energy storage worldwide by 2040. Image: Kenueone / Pixabay. Oil and gas major TotalEnergies, thermal energy storage system company 1414 Degrees and six other companies have joined the Long Duration Energy Storage (LDES) Council.



The LDES Council partnered with its co-founding organisations within the Global Renewables Alliance and its partner network to advocate for a global energy storage target on COP29's Action Agenda and worked in concert in the critical months before COP29 to build awareness and momentum for national commitments. As a result of these efforts



The CEO-led organisation was launched at COP26, including BP and Breakthrough Energy Ventures among its founder members, alongside 16 long-duration energy storage (LDES) technology providers, industry off-takers and end users, equipment manufacturers and energy system integrators and developers.. The report, "Net-zero power: Long duration ???

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Highview Power has revealed plans for a long-duration energy storage (LDES) project using its liquid air energy storage (LAES) technology, in Scotland. The company is developing a 2.5GWh project, called Hunterston, on a site in Peel Ports in North Ayrshire, Scotland. It will be the company's second project to use its LAES technology.



LDES can provide estimated cost savings between USD 50-\$100 per MW hour. LDES is already providing sector savings of around USD 540 billion annually. Souder later addressed the beneficial "optionality" LDES possessed to adapt to various industries, geographies, and communities. "What's important is that there's no one size fits all.



Highview Power has revealed its second planned long-duration energy storage (LDES) project using its liquid air energy storage (LAES) technology, in Scotland, UK. The company is developing a 2.5GWh project, called Hunterston, on a site in Peel Ports in North Ayrshire, Scotland. The first step is to build the grid connection and infrastructure



The Council says that LDES has the potential to deploy 1.5-2.5 TW power capacity globally by 2040: 8-15 times the total storage capacity deployed today. LDES could deliver 85-140 TWh by that year which would mean the ability to store up to 10% of all electricity consumed and would account for over half of all installed power flexibility capacity.



Research conducted by the LDES Council shows that the market has a potential to reach US\$4 trillion through deploying 8TW of LDES by 2040, resulting in delivering US\$540 billion in cost savings. There is a ???



Research conducted by the LDES Council shows that the market has a potential to reach US\$4 trillion through deploying 8TW of LDES by 2040, resulting in delivering US\$540 billion in cost savings. There is a tremendous amount of innovation and diversity in LDES, represented by

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four main LDES technology types (mechanical, electrochemical, chemical

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The LDES Council's industry experts provide fact-based guidance to Governments and grid operators in the deployment of long duration energy storage to help achieve NetZero for electric grids by 2040. The LDES Council provides education and advocacy services to help advance the adoption of long duration energy storage and accelerate carbon



LDES Council proposes "seven enablers" to scale long-duration energy storage to 8TW by 2040. November 15, 2024. Global decarbonisation targets are impossible without increasing the pace of long-duration energy storage (LDES) adoption 50 times over by 2040, according to the LDES Council.



According to the LDES Council, carbon dioxide emissions from industrial processes currently account for approximately one quarter of annual global greenhouse gas emissions, with this figure growing by more than 2% ???



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



LDES Council noted that fossil fuel energy, largely natural gas, is being used to cover the shortfalls in supply of electricity that result from the variable nature of wind and solar power generation. While lithium-ion is an effective and increasingly popular solution to this problem, the council said that the advanced battery technology

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According to the LDES Council, carbon dioxide emissions from industrial processes currently account for approximately one quarter of annual global greenhouse gas emissions, with this figure growing by more than 2% annually. The report finds that the four types of LDES technology currently available ??? electrochemical, mechanical, chemical



The LDES tenders had originally been anticipated to be held late this year and in 2025, but it is understood the timeframe has moved back a year. BDEW, Germany's biggest trade association for the energy and water industries, welcomed the opening of the consultation and the drawing up of the draft law by BMWK.



The LDES Council is aiming for deployment of between 85TWh and 140TWh of long-duration energy storage worldwide by 2040. Image: Kenueone / Pixabay. Oil and gas major TotalEnergies, thermal energy storage ???



According to the LDES Council, about 8TW of long-duration storage is need by 2040 to keep the world on-track for limiting the impacts of climate change and transitioning to renewables. Around the world, there are 10 countries that now have energy storage targets, which is a great start, Julia Souder says in her presentation, "but nowhere near



While the agency described the trial as a test of two long-duration energy storage (LDES) technologies, and both technologies are touted as suitable for applications requiring 6-hour discharge duration or more, the project will assess other specific characteristics of the batteries, such as their ruggedness in extreme heat conditions.



The project development market just hasn't bought into LDES in the way some expected it would. Europe plans 1TWh-plus of lithium-ion gigafactory capacity, but how much will go to ESS? Numerous projects to build lithium-ion gigafactories across Europe are underway, primarily

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driven by EU-wide mandates that incentivise domestically manufactured

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LDES Council was launched at last year's COP26 talks and is a trade association led by the CEOs of various stakeholders, from long-duration energy storage technology providers to a number of influential corporate ???



The LDES Council found, in a recent report, that long duration energy storage has the capacity to deploy 1.5 to 2.5 terawatts and 85 to 140 terawatt-hours of power capacity by 2040. That's 8 to 15 times the total storage capacity deployed ???