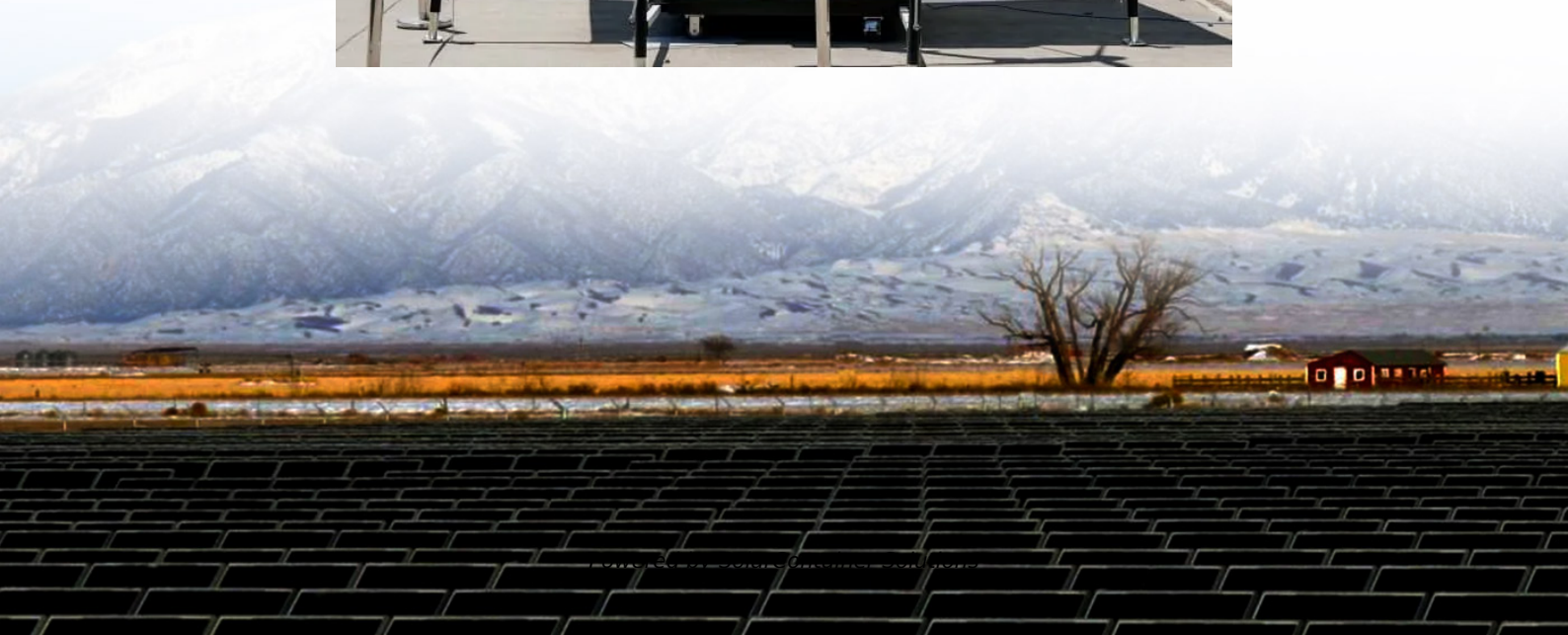


Hydropower Bureau No 4 EPC Energy Storage Project





Overview

Does EPC collaboration improve construction management of pumped storage hydropower projects?

However, semantic gaps persist in the cross-platform EPC collaboration for the construction management of pumped storage hydropower projects. The lack of standardization forces EPC contractors to thoroughly understand fragmented drawings and documentation, leading to increased time costs and hindering the efficiency of construction management.

Why is the EPC model fragmented in underground pumped-storage hydropower projects?

The conventional EPC model often suffers from fragmentation due to data silos created by BIM deliverables from different platforms. In underground pumped-storage hydropower projects, project phases are managed by multidisciplinary teams with limited communication and inadequate information-sharing technologies.

How will a pumped storage power plant contribute to the energy transition?

The company is making a significant contribution to the energy transition and is continuing its corporate transformation towards more renewable energy generation. By storing energy, the pumped storage power plant will contribute to greater security of supply in southern Germany.

What is pumped-storage EPC collaboration?

The EPC project deliverables across multiple BIM platforms for construction management in the pumped-storage project are identified. This cross-platform EPC collaboration framework provides a conceptual foundation to assist contractors in automating project management processes. 2.

What is the IFC schema for pumped storage hydropower projects?

Based on previous research (Zhang et al., 2023, Zhang et al., 2024), Fig. 7



illustrates the extension of the IFC schema proposed in this paper for pumped storage hydropower projects. It is divided primarily into three parts: a spatial structure, physical elements, and construction controls.

How are EPC project deliverables categorized?

Project deliverables are categorized based on the primary stakeholders leading each phase of the EPC project. In the initial owner-driven project requirements framework, the EPC contractor undertakes site surveys and engineering design.



Hydropower Bureau No 4 EPC Energy Storage Project



Desert Bloom Energy Storage, LLC; Notice of Preliminary Permit

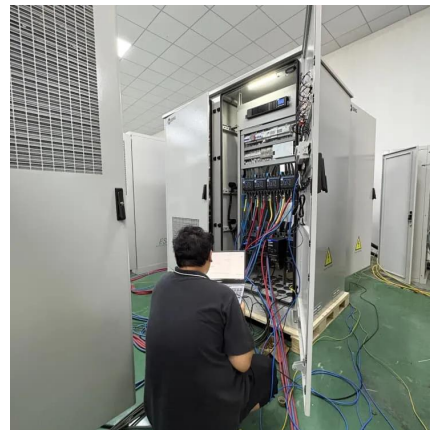
On June 14, 2024, Desert Bloom Energy Storage, LLC, filed an application for a preliminary permit, pursuant to section 4 (f) of the Federal Power Act (FPA), proposing to ...

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E.S. Boulos Successfully Completes EPC Battery Storage Projects

ESB partnered with an engineering firm to come up with the designs and then constructed the three battery storage facilities (two in Maine and one in New Hampshire) ...

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[POWERCHINA added to 'strategically important](#)

A proposed 500MW pumped hydro energy storage facility in the Philippines will be designed and constructed by Power Construction ...

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Uniper recommissions Happurg pumped-storage plant for around ...

Uniper has taken the decision to re-commission the pumped storage plant in Happurg, east of



Nuremberg. The company is thus investing around EUR250 million in a reliable energy ...

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Integration of BIM and ontologies for pumped storage hydropower ...

Engineering, Procurement, and Construction (EPC) is the most popular project delivery method in pumped storage hydropower, this model allows improved control over ...

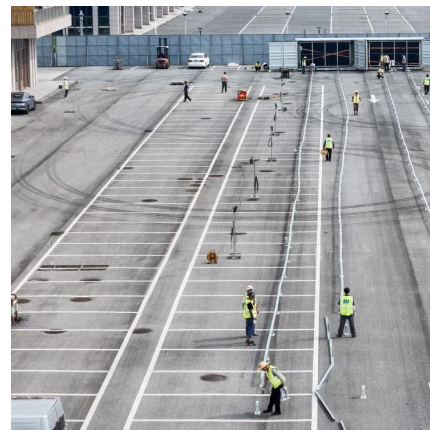
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Pumped Storage Tracking Tool: International Hydropower ...

Pumped Storage Tracking Tool IHA's Hydropower Pumped Storage Tracking Tool maps the locations and data for existing and planned pumped storage projects. The tool is the most ...

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HGE Energy Storage 4, LLC: Notice of Preliminary Permit ...

The proposed project would occupy federal land managed by the U.S. Forest Service and the Bureau of Reclamation. The sole purpose of a preliminary permit is to grant ...

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[Pumped Storage Tracking Tool: International Hydropower ...](#)

The tool shows the status of a pumped storage project, it's installed generating and pumping capacity, and its actual or planned date of commissioning. ? Learn more about pumped storage ...

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[Philippines: Hitachi bags EPC for AboitizPower ...](#)

The Magat hydropower plant in Isabela, Philippines. Image: Aboitiz Power Group. Philippines investor-owned utility AboitizPower and Norwegian ...

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[CEA Fast-Tracks 6 Hydro Pumped Storage Projects, ...](#)

The Central Electricity Authority (CEA), under the Ministry of Power, Government of India, has concurred Detailed Project Reports (DPRs) ...

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[Uniper recommissions Happurg pumped storage plant](#)

The plant, expected to be back online in 2028, will help stabilize southern Germany's electricity supply by storing energy and balancing the fluctuating output from ...

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SN Aboitiz Power secures EPC contract for Magat energy storage project

SN Aboitiz Power Group (SNAP), a joint venture between Scatec and AboitizPower, has signed construction and financing agreements for the development of its 20-megawatt ...

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[Uniper recommissions Happurg pumped storage plant](#)

The plant, expected to be back online in 2028, will help stabilize southern Germany's electricity supply by storing energy and balancing the ...

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[Sinohydro Bureau 4 won the bid for Hebei pumped ...](#)

Recently, Sinohydro Bureau 4 won the bid for the construction project of civil engineering and metal structure fabrication and installation of ...

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Tender for Energy Storage Project of Hydropower Bureau No 4 ...

The energy storage sector is booming, and hydropower projects are at the forefront of this transformation. The recent tender announcement by Hydropower Bureau No. 4 highlights the ...

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[Uniper recommissions Happurg pumped-storage plant ...](#)

Uniper has taken the decision to re-commission the pumped storage plant in Happurg, east of Nuremberg. The company is thus investing around EUR250 ...

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Sinohydro Bureau 4 won the bid for Hebei pumped storage power ...

Recently, Sinohydro Bureau 4 won the bid for the construction project of civil engineering and metal structure fabrication and installation of the lower reservoir and water ...

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[Evaluating the Value of Long-Duration Energy Storage in ...](#)

A presentation was given to the project team for the California Energy Commission project EPC-19-051, Hybrid-Modular Storage Solution Rapid Integration and Commercialization Unit, in ...

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Hydropower Engineering Bureau No. 4 Won the Bid for the Upper ...

Recently, Hydropower Bureau No. 4 won the bid for the upper and lower reservoir projects of Liaoning Chaoyang Pumped Storage Power Station. Chaoyang Pumped Storage Power ...

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[PUMPED PROJECTS STORAGE IN INDIA 2025](#)

India's renewables pumped rich storage grid. With project the right (PSP) policies, market sped is expanding up clearances, at a rapid pace even owing auctions to its being importance ...

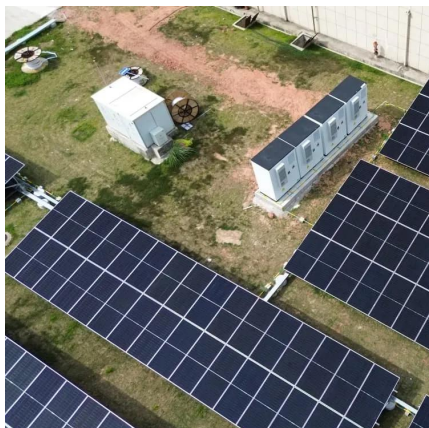
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[DOE ESHB Chapter 20 Energy Storage Procurement](#)

Abstract chapter offers procurement information for projects that include an energy storage component. The material provides guidance for different ownership models including lease, ...

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[Upper Cisokan Pumped Storage Hydropower Project](#)

The Upper Cisokan hydropower project is a 1GW pumped storage power station under construction in the West Java province of Indonesia. It will ...

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[Qatar Petroleum Awards EPC Contract to Técnicas Reunidas](#)

China >> 5/28/2025 - Recently, the No. 11 Hydropower Bureau received good news from the energy storage business market, winning the bid for the design and ...

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Cross-platform EPC collaboration framework for construction ...

To overcome these challenges, we propose a cross-platform EPC collaboration framework that integrates Industry Foundation Classes (IFC) with Semantic Web technologies.

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