

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.

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.

What is a prototype system for the management of EPC projects?

A prototype system for the management of EPC projects is developed and validated through a case study. Engineering, Procurement, and Construction (EPC) is a widely adopted project delivery method that centralizes responsibility but frequently faces challenges related to fragmented documentation in pumped storage hydropower projects.

Do semantic gaps exist in EPC collaboration for pumped storage hydropower projects?

Comprehensive semantic information is essential for implementing automated construction management workflows. However, semantic gaps persist in the cross-platform EPC collaboration for the construction management of pumped storage hydropower projects.

What is pumped hydroelectric storage (PHS)?

Pumped hydroelectric storage (PHS) is the most widely used electrical energy storage technology in the world today. It can offer a wide range of services to the modern-day power grid, especially assisting the large-scale integration of variable energy resources.

**Errata** This report, originally published in September 2023, has been revised in March 2024 to improve and correct calculations of technical specifications and costs for water conductor ...

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