Pumped hydro energy storage project introduction epc reference

What is EPC in 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 project costs and schedules in the design phase. Design changes are inevitable and require EPC contractors to track issues and assess impacts on construction.

Can a cross-platform EPC collaboration framework be used in pumped-storage hydropower projects?
The proposed framework can serve as a technical reference for automating construction processes, enabling digital teams to implement a cross-platform EPC collaboration framework in pumped-storage hydropower projects.

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-platformEPC collaboration framework provides a conceptual foundation to assist contractors in automating project management processes. 2.

Can BIM-based EPC management improve construction collaboration in pumped storage hydropower projects?
In a collaborative environment, stakeholders can seamlessly create, update, and exchange information, thereby promoting automation in construction management. However, there remains a challenge in construction collaboration for BIM-based EPC management in pumped storage hydropower projects.

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 pumped hydroelectric energy storage (PHES)?
This paper focuses on the established bulk EES technology Pumped Hydroelectric Energy Storage (PHES), as over 99% of the existing bulk EES capacity worldwide is PHES, comprising a global installed capacity in excess of 125 GW .

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