

Supplies of critical minerals essential for key clean energy technologies such as electric vehicles (EV) and wind turbines need to pick up sharply over the coming decades to meet the world's climate goals, creating potential energy security hazards that governments must act now to address, according to a new report by the International Energy Agency.

EPC Engineering, Procurement, and Construction . ESP Electrostatic Precipitator . ESS Energy Storage System . FD Forced Draft . FGD Flue Gas Desulfurization . FSEA Full Stream Elemental Coal Analysis . GAH Gas Air Heater . GGH Gas Heater . HHV Higher Heating Value . HGCC Hybrid Coal and Gas Boiler and Turbine Concept with Post Combustion Carbon ...

The negotiation of an engineering, procurement and construction (EPC) agreement for a battery energy storage systems (BESS) project typically surfaces many of the same contractual risk allocation issues that one encounters in the negotiation of an EPC agreement for a solar or wind project.

**KEY WORDS:** Resource availability, Renewable energy, Minerals, Supply. **INTRODUCTION** Research Background Energy has long played a vital role in the growth of the world economy (Tiba and Omri 2017), and, in the history of human energy use, fossil fuels hold the dominant position. In about 1880, coal overtook wood as the largest primary energy source,

Battery deployment will need to scale up significantly between now and the end of the decade to enable the world to get on track for its energy and climate goals, according to the report. In this scenario, overall energy storage capacity increases sixfold by 2030 worldwide, with batteries accounting for 90% of the increase and pumped hydropower ...

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10 10 **BACKGROUND** o Energy Storage is globally considered the new wave in the energy sector. o According to Bloomberg 45 GW/81 GWh of distributed or advanced stationary energy storage will be installed by 2024 (excluding pumped hydro and electric vehicles).

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