

Profit points of energy storage power station construction

How much does a substation Expansion cost?

For the purposes of this estimate, the cost associated with the expansion of the substation is excluded. The base cost estimate for this technology case totals \$3676/kilowatt (kW). Table 1-1 summarizes the cost components for this case.

How much does a power plant case cost?

The base cost estimate for this technology case totals \$2521/kW. Table 15-1 summarizes the cost components for this case. This price is dependent on the technology used, reservoir temperature, and location of the power plant.

Why is a battery reserve higher than a standalone battery storage?

The battery reserve in this case is higher than standalone battery storage because it accounts for battery augmentations as well as additional battery replacements every 10 years to allow for a 30-year system life. Fixed O&M costs include labor, materials and contracted services, and G&A costs. O&M Costs exclude property taxes and insurance.

How do utility-sized fuel cell projects work?

Although the costs shown are based on an EPC contracting basis, the utility-sized fuel cell projects have been structured as build, own, operate, and maintain by the fuel cell manufacturers with electricity purchase agreements with the client or end user at a set \$/kilowatt hour (kWh) basis.

What utilities are integrated with the base plant?

Other utilities that are integrated with the base plant are demineralized water and cooling water. Demineralized water is used to maintain a water balance within the amine process or in the solvent regeneration stages.



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