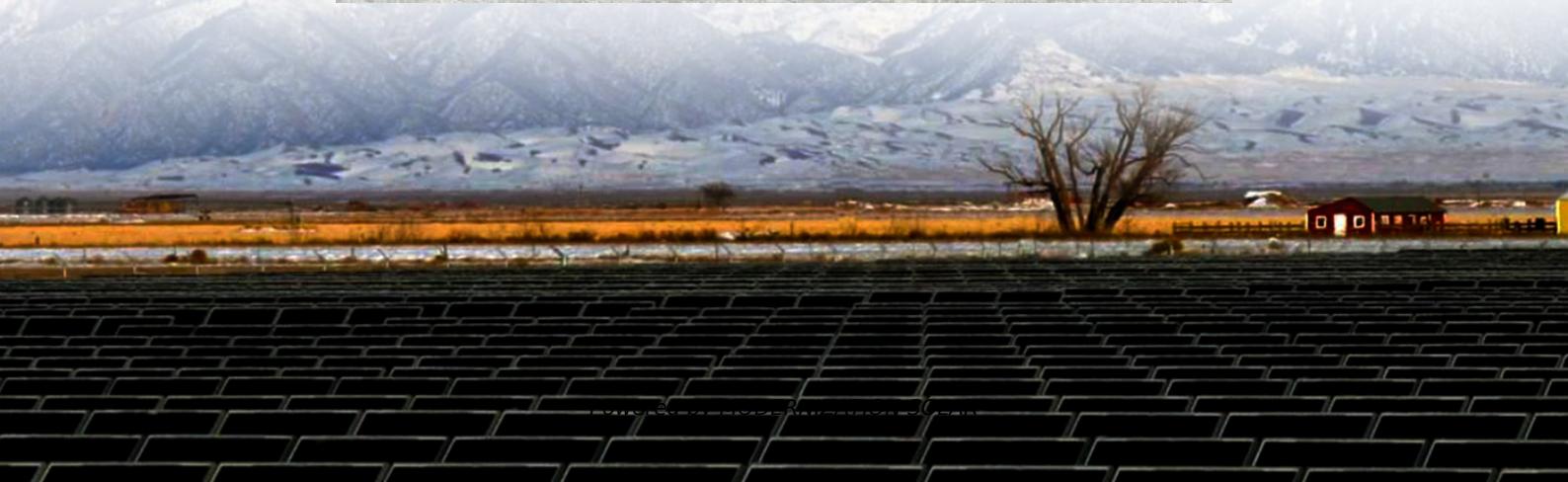




MODERNIZATION SOLAR

How to calculate the cost of building a base station power supply





Overview

Let us start with two simple questions: How much does it cost to produce electricity, and which is the least-cost technology to produce it?

In this chapter, we want to answer these questions. It will turn out

Does a power station generate more units?

In other words, if the power station generates more units, it will have higher running cost and vice-versa. The overall annual cost of electrical energy generated by a power station can be expressed in two forms viz three part form and two part form. (i) Three part form.

What is the cost structure of electricity generation technologies?

Cost structure of generation technologies. Electricity generation technologies vary dramatically in their cost structure. Some plants, such as nuclear, wind and solar power, have virtually zero variable costs: once they are built, they produce electricity virtually for free. This is in stark contrast to fossil fuel-based power plants.

How do I determine the cost of building a substation?

Assumes the land is flat and barren (with no vegetation). - No site obstructions (i.e. easy to grade) - No wetland or floodplain remediation. This is a comprehensive tool to determine the cost of building a substation or any small portion of it. All material cost is populated. Enter the quantity for an estimate.

Why should a power station be designed and built?

While designing and building a power station, efforts should be made to achieve overall economy so that the per unit cost of production is as low as possible. This will enable the electric supply company to sell electrical energy at a profit and ensure reliable service.



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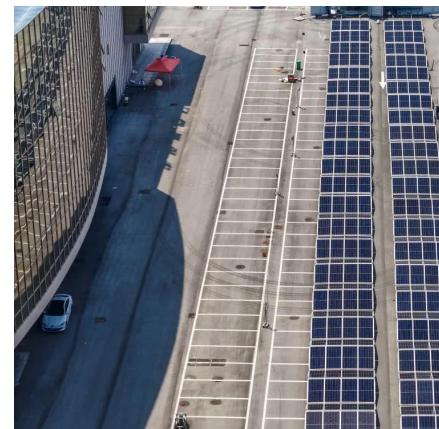


3. The cost of electricity

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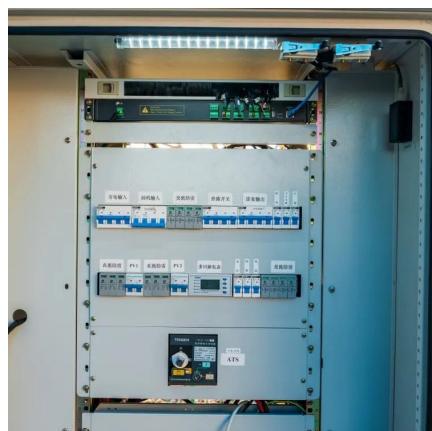
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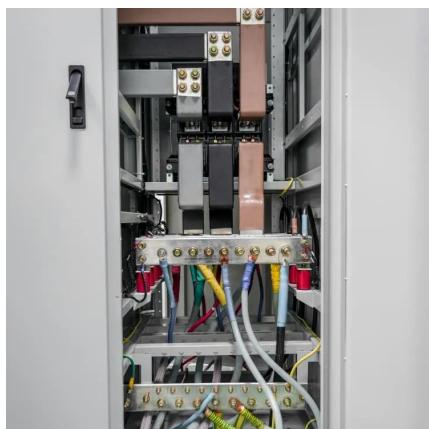
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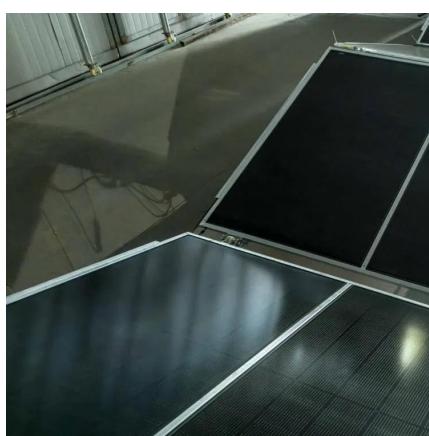
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Lecture Three

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