

Container power generation valuation standards





Overview

What is a model for power plant valuation?

In this paper, we describe a model for power plant valuation that accounts for such important operating characteristics as minimum on- and off-times, ramp time, nonconstant heat rates, response rate and minimum electricity dispatch level. The power plant values and optimal operating policies are obtained by employing stochastic dynamic programming.

How do I develop a valuation tool for energy storage?

Provide technical parameters and relevant data for three example use cases that could be used in a valuation tool. Identify a list of publicly available DOE tools that can provide energy storage valuation insights for ESS use case stakeholders. Provide information on the capabilities and different options in each modeling tool.

Do operating constraints affect power plant values?

Sample numerical results, using electricity price data from the New England power pool, show that operating constraints can have a significant impact on power plant values and optimal operating policies. Deregulation of energy markets has dramatically changed the environment in which many power generation asset owners operate.

What are DOE energy storage valuation tools?

The DOE energy storage valuation tools are valuable for industry, regulators, and other stakeholders to model, optimize, and evaluate different ESSs in a variety of use cases. There are numerous similarities and differences among these tools.



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