

In the book, readers will explore an engineering economics framework on the investment decisions and capital expenditure analyses required for an assessment of microgrid projects.

The book presents economic models for the expansion of microgrids under load and market price uncertainties, as well as discussions of the economics of resilience in microgrids for optimal operation during outages and ...

As in the economics of many traditional on-site generation projects, the economics of heat recovery and its application by combined heat and power (CHP) systems is central to the evaluation of microgrids, and inte ...

At present, the economic viability of microgrids is a landscape of contradictions. For critical facilities like hospitals or military bases, the calculation is straightforward; the cost of an outage is so ...

This study collects publicly available financial data from 24 microgrid projects worldwide and investigates the economic performance of renewable energy microgrids by evaluating key performance ...

At Energy Solutions Intelligence, we've analyzed 127 microgrid projects across North America. This guide reveals real project economics, resilience value calculations, and which configurations deliver the best ROI.

In this paper, we present an approach for conducting a techno-economic assessment of hybrid microgrids that use PV, BESS, and EDGs.

This chapter presents a comprehensive framework for modelling and economic analysis of microgrids, integrating both technical and financial dimensions. Microgrid modelling supports optimal design, ...

His research is focused on the climate crisis, the grid of the future, and advanced technologies to modernize the grid, including artificial intelligence and quantum computing. He has authored/co-authored over 200 peer ...

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