

## **PDEOZE PowerContainer**

# **How much does microgrid energy storage cost**



## Overview

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How much does energy storage cost a microgrid?

In commercial/industrial and utility microgrids, soft costs (43% and 24%, respectively) represent significant portion of the total costs per megawatt. Finally, energy storage contributes significantly to the total cost of commercial and community microgrids, which have percentages of 25% and 15%, respectively, of the total costs per megawatt.

How much does a microgrid cost?

The analysis shows that controller cost data as a percentage of total microgrid costs have a wide range of costs among the projects in our database. In total, we had controller cost data for 21 microgrids out of a total of 80 projects. Controller costs per megawatt range from \$6,200/MW-\$470,000/MW, excluding outliers, with a mean of \$155,000/MW.

Do NY Prize systems have more energy generation than NREL microgrids?

Our analysis of the energy generation of the NY Prize systems indicates that they have slightly more new generation (compared to existing generation) as a whole than the community category systems in the NREL microgrid cost database; new generation makes up 42%-64% of the total.

How was cost information collected for 80 microgrids?

Cost information for 80 microgrids was collected through an online survey, by directly contacting industry members and microgrid owners, and from publicly available information. The cost data reflect a wide range of microgrid design variability in the United States.

Why is it difficult to generalize costs for Microgrid technology?

For microgrid technology, it is particularly challenging to generalize costs because every installation has unique design and architecture characteristics that affect the overall cost of the individual microgrid components.

What is a microgrid?

The most commonly used definition of a microgrid is that from DOE as “a group of interconnected loads and distributed energy resources within clearly defined electrical boundaries that acts as a single controllable entity with respect to the grid.

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