

Solar container price of fuel cells





Overview

In 2025, average turnkey container prices range around USD 200 to USD 400 per kWh depending on capacity, components, and location of deployment. How much does a fuel cell system cost?

For the defined scenario, it is noticeable that the target price of the product from 30,000 fuel cell systems produced per year is 395 EUR/kW. This output is equal to the value announced by Toyota in 2020. The manufacturing costs account for an average of about two thirds of the target price.

What are the factors affecting fuel cell system costs?

The dominant factors in the fuel cell system costs are the costs of the MEA with 49%, especially regarding the material costs. With 56% material costs of the MEA production and 56% material costs of the system production, the two cost positions have a combined share of 39% of the overall costs of the fuel cell system.

What is a modeled fuel cell system?

Product specification The modeled fuel cell system consists of the single cell components Bipolar Plate (BPP) and Membrane Electrode Assembly (MEA), the stack components and the Balance of Plant (BoP). It is mainly defined by power, geometry, and material data (Fig. 2).

Can fuel cell technology decarbonize global mobility?

Fuel cell technology is seen as a promising option for decarbonizing global mobility. The costs of fuel cell systems are currently too high for increasing market penetration.



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