

# **Comparison of 50kW Photovoltaic Container and Diesel Engine**





## Overview

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Can a diesel generator be used as a photovoltaic system?

In combination, diesel generators and photovoltaic systems are very well suited to energy supply in areas with an unstable or non-existent mains supply. The additional use of solar energy reduces fuel consumption, which saves costs. Furthermore, the integration of a PV system brings a sustainable factor into the system.

Why should you integrate photovoltaics into diesel power systems?

Integrating photovoltaics into existing diesel power systems enables reductions in fuel costs and guarantees an efficient electricity supply. PV-diesel solutions offer independence from rising diesel prices and reduce operating- and maintenance costs, especially in remote areas far from the utility grid.

Can a diesel generator be converted into a solar/diesel hybrid system?

For this reason, there is a clear financial justification for converting almost every diesel-powered system into a solar/diesel hybrid system. Every unused diesel kWh saves money. The combination of diesel generators with PV systems quickly pays for itself through the large savings in fuel costs.

What is a solar diesel hybrid system?

Solar hybrid systems are power systems that combine solar power from a photovoltaic system with another energy source. One of the most common hybrid systems being PV diesel hybrid system, coupling PV and diesel generators, also known as diesel gensets.



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### [Solar diesel hybrid system](#)

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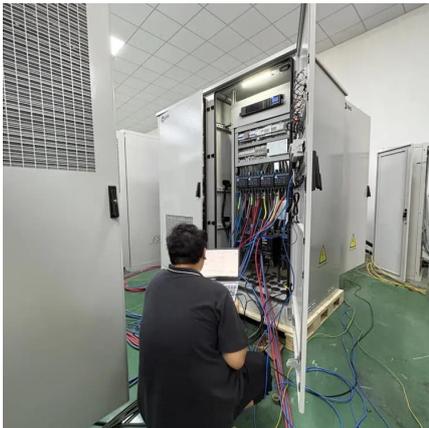
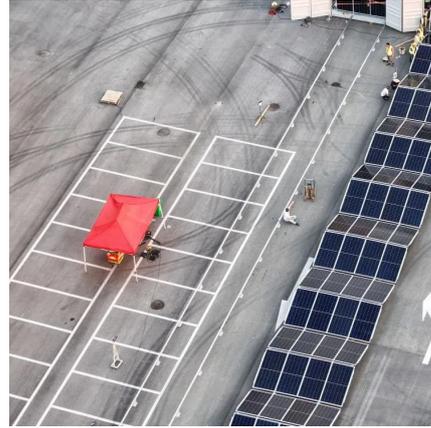
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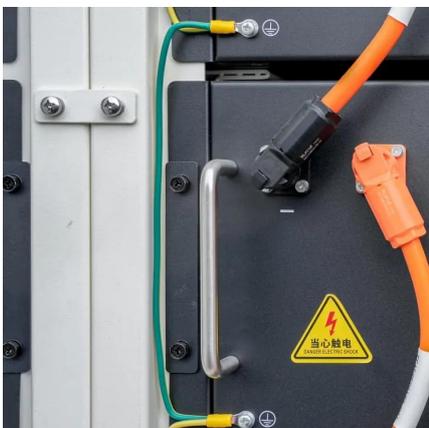


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## Optimal size selection of combined diesel ...

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## Comparison of using photovoltaic system and diesel ...

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