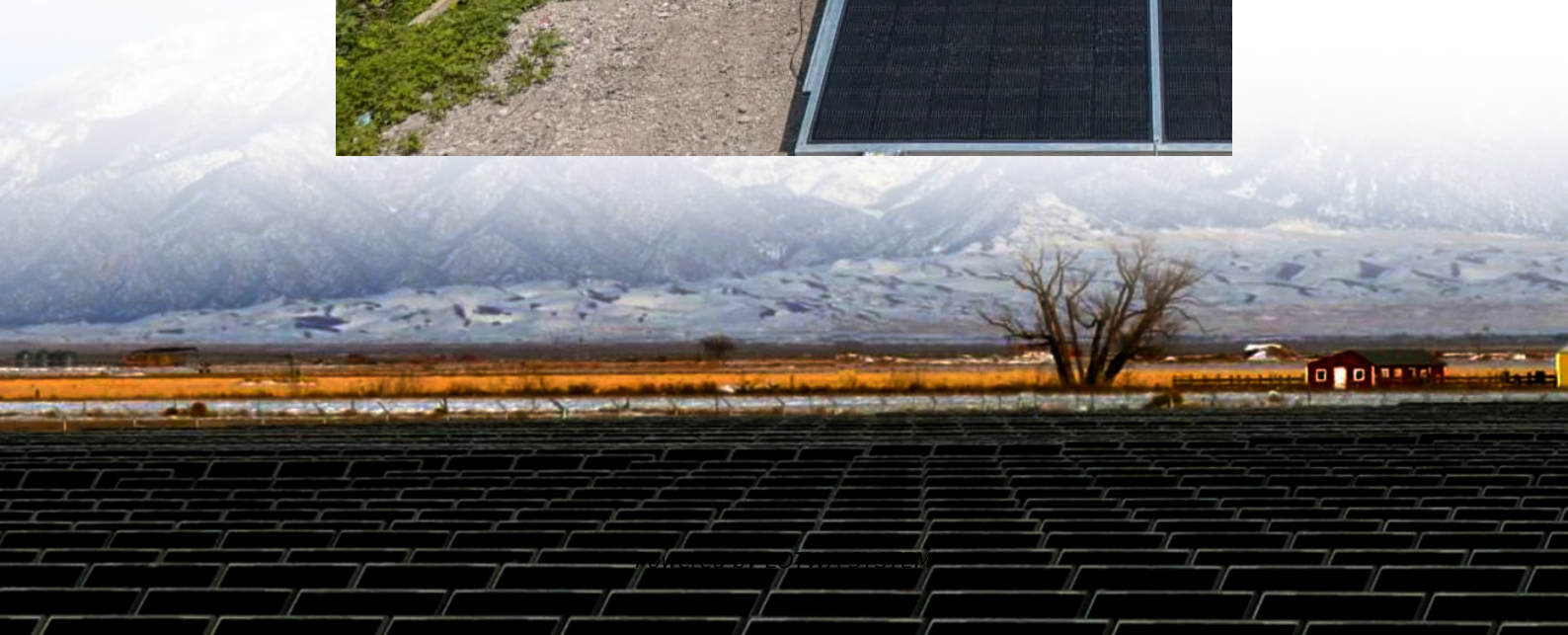


Comparison between 2MW photovoltaic container and diesel power generation





Overview

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.

What is the difference between diesel generator and PV/diesel system?

In PV/diesel system, diesel generator is used to generate power when sunlight is not accessible. Compared to a diesel-only system, PV/diesel system not only decreases the atmospheric pollutants of carbon (CO_x), sulphur (SO_x) and nitrogen (NO_x) emissions but also decreases the power generation costs.

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.

Is a hybrid PV/diesel power generation system a good choice?

Among different configurations, photovoltaic-diesel (PV/diesel) power generation systems are one of the most promising ones for their good performance. Owing to the complexity of the hybrid PV/diesel system, optimal balance between these two sources needs particular attention to find a good engineering solution.



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