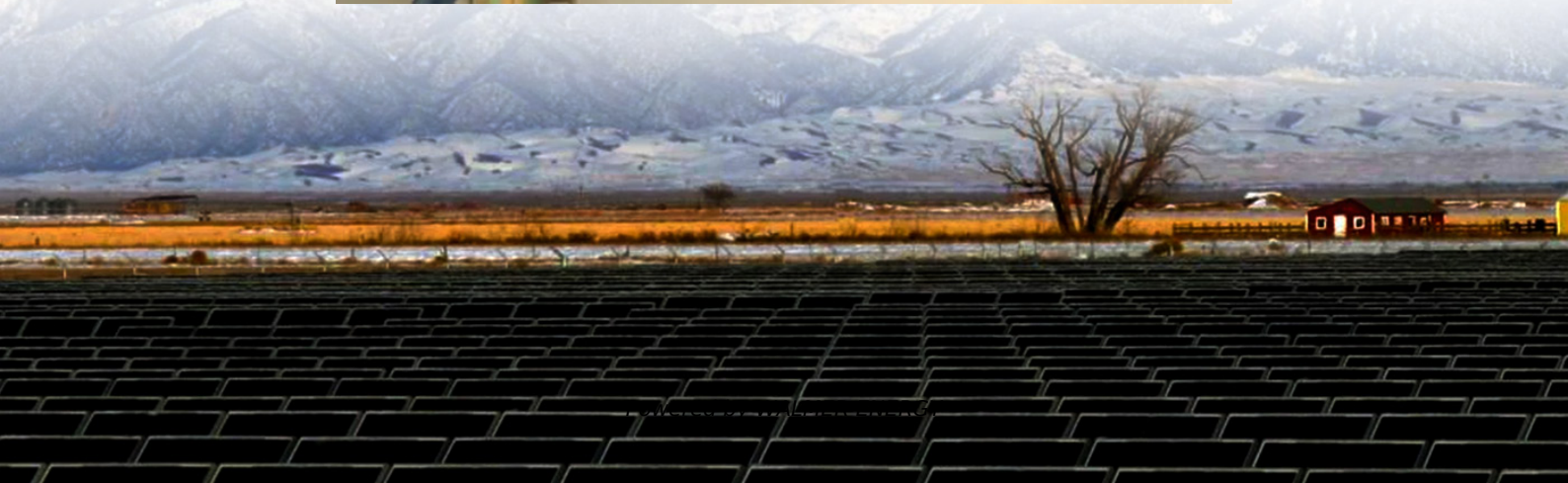


What generator sets will be available in future micro solar power stations





Overview

The microgrid includes conventional generation (diesel-fueled reciprocating engine generators) as well as solar PV (multiple distributed arrays ranging from 50 kW to 260 kW). What types of generators are suitable for Microgrid power generation?

Our range of diesel and natural gas generators are suited for all microgrid power generation requirements, ranging from 15 - 3,750 kVA. Advanced Microgrid Controls support multiple configurations and design implementation solutions to adapt to your evolving microgrid requirements.

How do microgrids and virtual power plants contribute to the energy transition?

Their ability to operate autonomously while contributing to overall grid stability makes microgrids and virtual power plants central to the energy transition. Some microgrids in locations such as Alaska have operated for over a century. VPPs have emerged much more recently, with the first deployed in Germany.

Does NREL support a microgrid battery energy storage system?

NREL supported the development and acceptance testing of a microgrid battery energy storage system developed by EaglePicher Technologies as part of an effort sponsored by U.S. Northern Command. The three-tiered, 300-kW/386-kWh grid-tied system is capable of providing grid stabilization, microgrid support, and on-command power response.

Are conventional generators a nonrenewable energy source?

While conventional generators use fossil fuels and are considered a nonrenewable energy source, they can play a crucial role in filling in gaps between renewable production and demand in microgrid systems, particularly when demand cannot be met with BESS or another means of renewable energy storage.



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The role of generator sets in the new landscape of microgrids

At present, one third of energy supplied by microgrids comes from generator sets, another third from wind energy and the rest from microturbines, solar panels or fuel cells.

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