

Battery Energy Storage vs. Generator Home Back-Up Power Systems

Which is Right For You?

Battery Back-Up System



Connected to your solar system's PV array	Connected to your natural gas supply or
and/or the electrical grid.	independent LP gas or diesel tank.
Offers continuous source of fueling that is	Needs continuous refueling (every 24-48
available daily and indefinitely (energy from	hrs) which may not be convenient to obtain
the sun).	or available during an emergency.
Uses natural power from the sun's energy	Uses fossil fuels which can be costly, in
that is free, abundant, better for the	short supply and more expensive during
environment, and requires no delivery labor	emergencies, incur delivery labor/expenses
or delivery costs.	and/or fees, and pollute the environment.
Provides uninterrupted power.	May take up to a minute to activate power.
Power stored is limited – depending on	Often a better option for households that
size, may only be able to back-up essential	want to use a lot of power during prolonged
systems for several hours, or may require	periods of utility power loss – for example,
purchase of multiple units to cover your	several weeks off the grid during a time
complete demand and longer time periods.	when there is not much sunlight.
Very little maintenance and repair is	Periodic testing, inspection, operation, and
required and equipment is much less likely	maintenance is required along with costs for
to break down or malfunction.	fuel, repairs, and professional assistance.
Upfront costs for hardware and installation	Upfront costs for hardware and installation
are greater but it has no cost to operate,	are less but it has significant cost to operate,
available tax credits that can offset up to	no availability of tax credits to offset
50% of installed cost, double the lifespan	installed cost, lower typical lifespan with
of a generator with significantly longer	significantly shorter warranty, noise and
warranty, odorless and quiet, and can lower	odor when operating, and raises rather than
or even eliminate your annual power costs.	lowers your overall annual power costs.

Generator Back-Up System



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