



OFF GRID POWER SYSTEM

Mi-Grid

Mi-Grid is similar to an Off-Grid solar energy system, taking in solar energy and making DC power. This power is stored in batteries or runs an inverter for AC power.

How is it different?

Mi-Grid has an integrated generator. Instead of an oversized battery bank and solar array, it uses the generator as a backup. A standard Mi-Grid is about half the cost of a similar off-grid solar system.

How does Mi-Grid Work?

Mi-Grid works just like a standard off-grid solar energy system. Solar beyond regular use is stored in the batteries. This stored energy is used in the evening and over night when the sun is not shining.

On cloudy or high power usage days, the generator supplement the power. Mi-Grid monitors the energy stored in the batteries. If it drops below a pre-set point, the generator will automatically start. While running, it provides AC power and recharges the batteries. Once full, about an hour, the genera-

tor shuts down.

By occasionally using the generator, the size of the battery bank is reduced, usually one sixth. Similarly, the solar array is sized to just provide average daily energy consumption.



Compared to a standard solar off-grid system, the cost is half and the weight and size is usually one third. This also helps in transport to remote areas.

An alternative Mi-Grid configuration provides only continuous power to the essential areas,

usually lights, fans and electrical outlets. When more power is needed, the large generator is remotely started. When not needed, the generator is shut down. Mi-Grid still can start the generator if the solar is not sufficient. This allows a small Mi-Grid to power a big system!

How is Mi-Grid compared to a generator?

Regular Generators have very low capital costs, but very high operating costs. In addition to fuel, weekly/monthly maintenance and periodic replacement/overhaul are very costly. Mi-Grid reduces run time by 90%, quickly paying for itself.

Mi-Grid:

Reliable Renewable Energy



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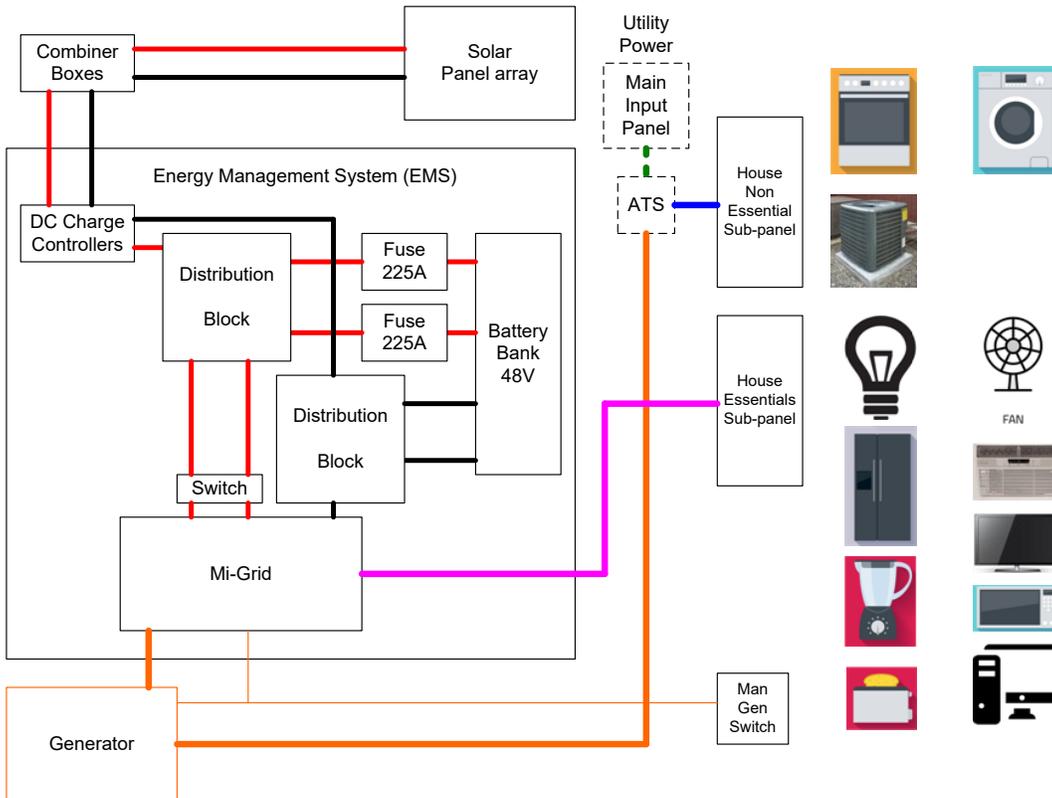
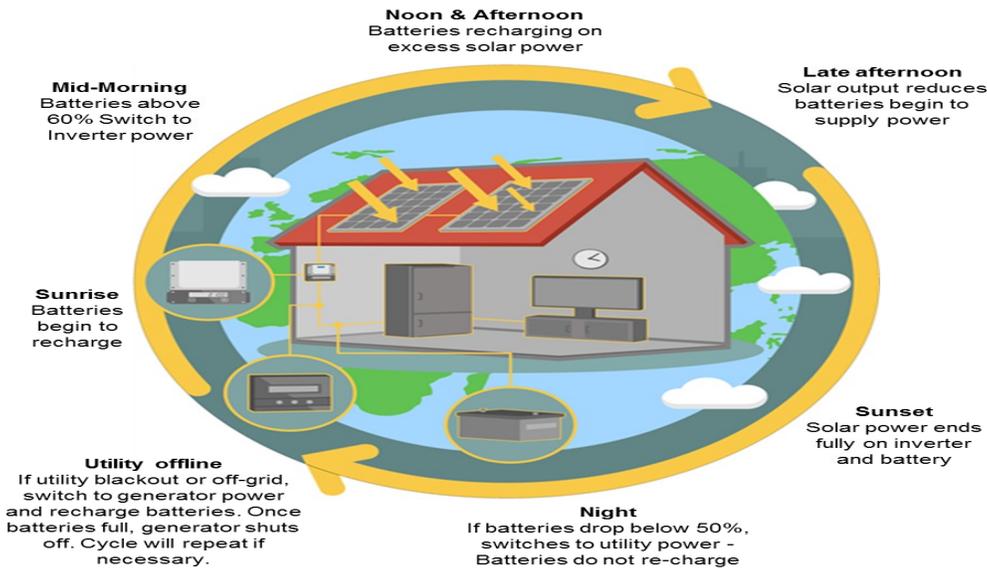


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HOW DOES MI-GRID WORK?

Power Management Cycle



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