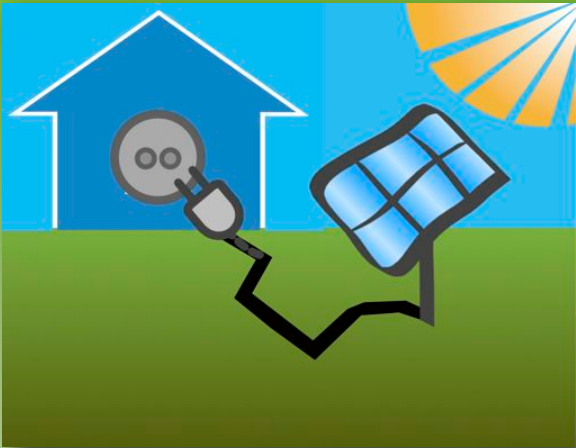


Solar Electricity



Solar Electricity or Photovoltaics (PV) involves creating electricity directly from the sunlight. Solar panels can be placed anywhere that gets direct sunlight, but work best in south-facing areas. Three different systems are available

Grid-Tied System: The PV panels generate electricity that is then converted to AC current and connected to the household power system. That power can then be used by household appliances. If more power is created than is used, energy flows back in the grid to be used by your neighbors, and lowering your energy bill.

Grid Tied with Backup: Power generated from the sun is used to charge batteries. Once the batteries are fully charged, energy is sent to household appliances, or back to the power grid, lowering your utility bills. In the event of a power failure or blackout, your household appliances will be powered by the energy stored in the batteries.

Off-Grid: In this scenario there is no grid or power company connection. The power generated from solar panels is used to charge batteries and all household appliances use energy from those batteries.



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