

Over previous centuries, substantial (annual) development has increased in renewable energy sources, primarily solar, which provides reliable, cheap, environmentally friendly, and massive power supply. The energy-related renewable systems are helpful because transportation energy losses are minimized digitally (Gomathi et al., 2020). For a traditional, intelligent home, comparatively small energy is available primarily from renewable resources. The sun and wind, two primary renewable energy resources, efficient power generation from those sources for the energy sector are primary goals (Manogaran et al., 2020, Ngan et al., 2019).