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2.1 | Energy production from PV system The energy production from a PV power plant depends strongly on the PV module's efficiency. The PV module efficiency, and therefore electricity generation, decreases with increases in module temperature. The efficiency of the PV panel,  $\eta_{PV}$ , is modeled using Equation 1.  $31 \eta_{PV} \frac{1}{4} \eta_{PV}; \text{Ref } \times 1 - j\beta \dots$

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Photo voltaic arrays are used in many applications such as water pumping, street lighting in rural town, battery charging and grid connected PV systems [1, 2]. As known from a Power-Voltage curve of a solar panel, there is an optimum operating point such that the PV delivers the maximum possible power to the load.

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