


Capital hospital energy storage

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**Keywords:** COVID-19, Hospital, Hybrid renewable energy system, Hydrogen energy storage, Oxygen production, Photovoltaic panels

The schematic of the novel renewable hybrid system to produce electricity and O<sub>2</sub> for COVID19 patients in hospitals.

Hourly solar radiation and ambient temperature for a year.

Features of PV panels. [24]

Features of the hydrogen storage system and oxygen capsules.

Configuration of solar panels on the rooftop of the hospital.

Relation for calculating purchased cost of PV panels, electrolyzer and fuel cell [34,35].

Where  $i$  and  $n_y$  are interest rate and operation years, respectively. Value of the mentioned parameters are given in Table 4.

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