Libreville energy storage for grid stability

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Considering the COA technique to select the optimal parameters of the considered controllers, according to its good optimization properties (i.e., balancing between exploration and exploitation) in order to enhance the performance of the analyzed power grid.

The superiority of the proposed strategy is validated considering high RESs, load disturbances as well as CDT in considered hybrid power grid. Furthermore, the standard IEEE 39 buses is considered to confirm the superiority of the proposed strategy.

As highlighted in this analysis, the study"s power grid is a hybrid system that contains a significant proportion of RESs, with a focus on wind generating facilities. The following formulae can be used to calculate wind output power3,4.

This research also takes into account photovoltaic (PV) power plants, which generate electricity from solar energy besides utilized wind farms. Multiple variables, like the PV cell"s surface area, the intensity of solar radiation, and the surrounding air temperature, affect a PV system"s output power. For calculating the amount of energy generated by the module of PV in this current study, an equation is employed, taking into account these factors.

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