

Montevideo hospital energy storage

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A microgrid system with integrated RES and ESS to be installed in hospitals, if well planned, may offer a continuous and low electricity cost solution for the hospitals. For the system to be installed to be both economically and technically feasible, a well-designed operation model is required. A well-designed operation model provides a stable cost-effective integrated energy infrastructure with high efficiency [6].

Finally, adding the calculations of the release of CO<sub>2</sub> gas from grid electricity and the social cost of CO<sub>2</sub> on an hourly basis strengthens the contribution of the study.

In the literature, many studies have been carried out for microgrid optimization with ESS systems and renewable energy resources. Different methods were used in these optimization studies, however; in this study, especially studies using linear programming methods are included.

In Table 1, there is a summary of some examples of microgrids with energy storage unit optimization studies. In the problem type section; I, D, S indicates investment, design, and scheduling, respectively. In the storage unit part; B, T, O stands for battery, thermal energy storage, and other storage types, respectively. In the energy source part; W, SP, G and O are abbreviations for wind, solar, grid, and other energy sources, respectively.

To schedule the integrated system structure, it is proposed to use a linear programming (LP) model. In this context, LP is one of the most widely used methods of deterministic approaches.

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