

Microgrid applications astana

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It is very necessary to add storage systems to the integrated systems in order to give the electrical system more reliability and high performance. The excess energy that is produced from the integrated sources is used to charge the batteries and then this stored energy is used to charge the batteries when needed in the event of a production shortage. For demand-side and energy flow management an energy management system is used and takes into account the economic aspects, operational constraints, and the fulfillment of supply and demand (Elkholy et al. 2022a).

Optimization methods can greatly contribute to solving integration problems and increasing the efficiency of the integrated system (Liu, et al. 2020). A study was conducted to optimize the sizing of a hybrid system that combines wind and solar energy in the event that it is connected to the grid or isolated from the grid Luna-Rubio et al. (2012) Several reviews of the grid connected (Weschenfelder et al. 2020) and off-grid systems (Jian et al. 2011) wind-solar hybrid system was conducted.

The economic feasibility of integrating photovoltaic sources and ESSs, which is an indicator to attract investments in Thailand and many other countries, was discussed (Chaianong et al. 2020; Sheeraz et al. 2010; Rodrigo et al. 2017). This study discusses the benefits of a hybrid system that combines ESS and solar cells. This study also predicts the status of battery investment in Thailand in the future (Chaianong et al. 2020).

Hybrid ESSs are used to feed rural areas disconnected from the grid. The PV system integrated with hybrid ESSs is one of the most promising systems in rural electricity, especially in areas far from the grid. Many reviews discussed these systems and also presented the ways that help to increase the life of the battery (Jing et al. 2018).

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