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Mun, H.; Moon, B.; Park, S.; Yoon, Y. A Study on the Economic Feasibility of Stand-Alone Microgrid for Carbon-Free Island in Korea. Energies 2021, 14, 1913. https://doi /10.3390/en14071913

Mun H, Moon B, Park S, Yoon Y. A Study on the Economic Feasibility of Stand-Alone Microgrid for Carbon-Free Island in Korea. Energies. 2021; 14(7):1913. https://doi /10.3390/en14071913

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Mun, H., Moon, B., Park, S., & Yoon, Y. (2021). A Study on the Economic Feasibility of Stand-Alone Microgrid for Carbon-Free Island in Korea. Energies, 14(7), 1913. https://doi /10.3390/en14071913

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This paper deals with implementation of the laboratory-scale microgrid using energy storage system. Also, this paper develops a simulation model of the microgrid with same parameters on the laboratory-scale microgrid using PSCAD/EMTDC. The experimental results show good agreement with the simulation results. This shows the validity of the simulation model. A valve regulated lead acid (VRLA) battery is used to store energy. Energy storage system with fast response is able to maintain power quality of sensitive load within the microgrid.

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