

What happens if multiple residential consumers share energy storage?

When multiple residential consumers share energy storage, the operations of the shared energy storage become more complex because of the consumers' varying electricity demand loads and solar power generations.

What is shared energy storage?

With shared energy storage, multiple consumers will have access to the energy storage by charging and discharging the energy storage depending on their own needs. In this case, consumers can reduce the burden of the installation of energy storage by sharing initial investment costs.

How can a shared energy storage policy be developed?

Through the analysis of the residential consumer data and the optimal shared energy storage operations resulting from the proposed mathematical optimization models, insight can be drawn for the development of a shared energy storage policy. 6.1. Assignment of consumers to energy storage

Can shared energy storage be implemented in residential communities?

Hence, there have been significant efforts to implement shared energy storage in residential communities. For example, three 34 kWh energy storage units that were each shared among 5 to 15 houses were installed in Sacramento, California's Anatolia III Solar Smart Homes Community .

What is the objective function of a shared energy storage system?

The objective function (2a) is designed to minimize the total energy cost of the entire residential community using shared energy storage. Constraint (2b) restricts that each consumer can have access to only one energy storage, i.e., only one energy storage can be assigned to each consumer.

Should energy storage be shared?

Considering these aspects, there has been an increasing interest in sharing energy storage among individual consumers, specifically in a residential community. With shared energy storage, multiple consumers will have access to the energy storage by charging and discharging the energy storage depending on their own needs.

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