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Sustainable Energy Hub Design under Uncertainty Using Benders Decomposition Method

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Highlights

- An optimization-based framework is provided for sustainable design of energy hubs.
- The Benders decomposition algorithm is utilized in solution method.
- External cost of environmental and social impacts of an energy hub is considered.
- A method is provided to determine the value of demand response in the model.
- The results can be used by energy policy makers to provide incentives or penalties.

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