# Energy storage for demand response jamaica

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Here, y represents the RE capacity, K is the carrying capacity, A is constant, r is the growth rate, and t is time. This model is often more realistic for long-term projections as it considers market saturation and resource limitations [12]. However, it requires an accurate carrying capacity estimation, which can be challenging in rapidly evolving markets.

Where n is the gradation of the polynomial. While flexible, higher-degree polynomials can lead to overfitting and unrealistic long-term projections [13]. This model can capture the curvature in the data and provide a smoother trend line that fits the historical data well while allowing for reasonable future predictions. However, when applied, the model predicts a slight decrease in renewable energy percentage after 2040, with 23.61% in 2040, 23.01% in 2045, and 21.66% in 2050. Given the current trends in renewable energy adoption, it may be unrealistic. This highlights the limitation of using polynomial regression for long-term predictions in this context.

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Author Contribution References Author ContributionD.R. wrote the first draft of the manuscript. After that, H.Y. reviewed and edited the work. All authors have read and agreed to the published version of the manuscript.

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