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Using Weather Sensitivity to Forecast Thailand's Electricity Demand

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Abstract

As part of a study into the potential impact of climate change on Thailand's electricity demand it has been necessary to find an efficient and effective way of linking climate to demand levels. The paper sets out a multiple linear regression approach to modelling the influence of temperature on demand by representing demand as hourly time-slices for each month across the year. The application of the models in determining the impact of uniform rises in temperature are presented along with a preliminary exploration of what such sensitivity could mean in terms of Thailand's future demand levels.

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