

Modeling and simulation of gas demand forecasting

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Demand forecasting is a key process in the running of Gas network. An accurate forecast is required to enable system balancing thus ensuring a safe and secure supply at minimum cost. Over a number of years, a range of forecasting tools have been developed and research is ongoing to meet the need for ever more accurate forecasts.

The method relies on dividing a year into two seasons as Summer Type and Winter Type and estimating individual autoregressive time series models for each period instead of attempting to capture the seasonal patterns in a single model. In the models, the dynamic relationships between gas consumption with time and degree-days measured by weather temperature variations are investigated.