## **Results Simple Machine Learning Surrogate Models**

In the tables below, the performance of the different machine learning models are displayed in terms of their mean absolute error (MAE). This has been done for six cases, each with a different combination of input variables and predicted output variable.

Input Variables	Gas Price	Gas Price, Month	Gas Price, Month
Output	Cost	Cost	Curtailment
Linear Regression	149.8	145479.0	414294.5
Decision Tree	45319.0	59198.6	6114.3
Random Forest	31034.5	47319.6	6778.0

Table 1. Performance (MAE values) of ML models when varying a constant input variable.

Inputs Variables	Month	Wind, Month	Month	Wind, Month
Output	Cost	Cost	Curtailment	Curtailment
Linear Regression	39832.6	39727.6	288807.8	247390.2
Decision Tree	37687.5	18026.2	284010.9	223334.6
Random Forest	37689.0	17527.8	283802.9	188057.7

Table 2. Performance (MAE values) of ML models when varying a time series input variable.