Combining Genetic Algorithm and Support Vector Machine to Study the Influence Factors of CO_2 Emissions in Beijing with Scenario Analysis

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Table S1. Standard coal conversion coefficients of different kinds of energy

Energy	Statistical unit	Conversion coefficient
Coal	Million ton	0.7143 kgce/kg
Coke	Million ton	0.9714 kgce/kg
Crude oil	Million ton	1.4286 kgce/kg
Gasoline	Million ton	1.4714 kgce/kg
Kerosene	Million ton	1.4714 kgce/kg
Diesel oil	Million ton	1.4571 kgce/kg
Fuel	Million ton	1.4286 kgce/kg
Natural gas	Billion cubic meters	1.2721 kgce/m3
Power	Billion kwh	0.1229 kgce/(kwh)

Table S2. CO_2 emissions conversion coefficient for different kinds of energy

Energy species	CO_2 emissions conversion coefficient(C/(t/t))
Coal	0.747
Coke	0.855
Crude oil	0.585
Gasoline	0.553
Kerosene	0.571
Diesel oil	0.592
Fuel	0.618
Natural gas	0.448
Power	1.814