

Study on China's Medium and Long Term Energy Demand Forecasting Model System

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State Information Center (SIC) commits to develop Multi-regional Input-Output Models and CGE Model for a long-term, so far, China Multi-Regional Input-Output Models for 1997, 2002 and 2007 and SICGE energy demand forecasting model had been published. Combining Input-Output model with CGE model, this paper intends to adopt the method of top-down and bottom-up to build the energy economy CGE model to forecast China's medium and long term energy demand by different sectors and energy products. Following the principles of economic activities inducing final energy demand, the primary energy demands are reversely calculated by final energy demand and energy supply and demand balance. On the one hand, our model intends to forecast China's medium and long-term demand for coal, electricity, oil and natural gas by building a baseline scenario, on the other hand, carrying out comprehensive national energy demand forecasting under multiple policy scenarios, so as to realize the goals of China's total amount of energy consumption and carbon dioxide peak.