# Energy Data

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EnConElec

Electrical energy consumption in China's subnational model was found in the China Statistical Yearbooks 2006 in Chapter 7 *Energy* table 15 *Electricity Consumption by Region.* The series runs from 1995, 2000-2005. The data was converted into BBOE from hundred million kilowatt hours by multiplying by 1000 and then by 6.3027E-07.

This series is outdated and could be updated using the more recent editions of the China Statistical Yearbooks 2007-2016 in Chapter 9 *Energy* table 15 *Electricity Consumption by Region.*

EnProdCoal

Coal energy production was found in the China Data Center database using table 904. The series runs from 1949-2003 and was converted from tons to BBOE by multiplying by 0.005131.

Energy Production Coal, History and Forecast
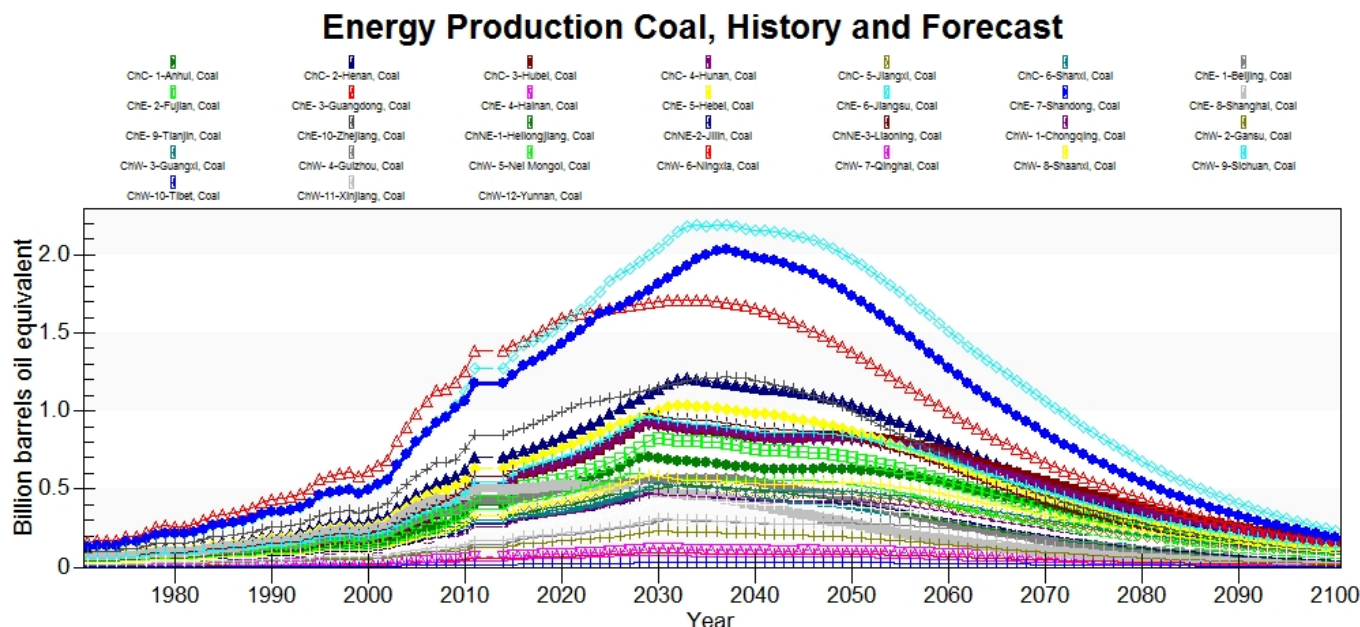
The historical data is not all being read into the model because it is being normalized using ApplyMultAll and the full 186 model does not have data prior to 1970. The model interpolates the data and estimates historical data up to 2011. The 2011 data point is identical to the 2014 data point, when the model initializes. Production of coal is forecast to peak sometime between 2030 and 2040 for all provinces, with Jiangsu being the largest producer.

This series is outdated and could be updated using the more recent editions of the China Statistical Yearbooks 2004-2016 in Chapter 13 *Industry* table 13 *Output of Industrial Products by Region*. This data would need converted from ten thousand tons to BBOE.

EnProdElec

Electrical energy production was found in the China Data Center database using table 904. The series is in kilowatt hours and runs from 1949-2003.

This series needs updataed and could be updated using the more recent editions of the China Statistical Yearbooks 2005-2016 in Chapter 13 *Industry* table 13 *Output of Industrial Products by Region*.

EnProdOil

Oil production was found in the China Data Center database using table 904. The series runs from 1949-2003 and the data was converted from ten thousand tons to BBOE by multiplying by 0.005131.

Energy Production by Type, History and Forecast
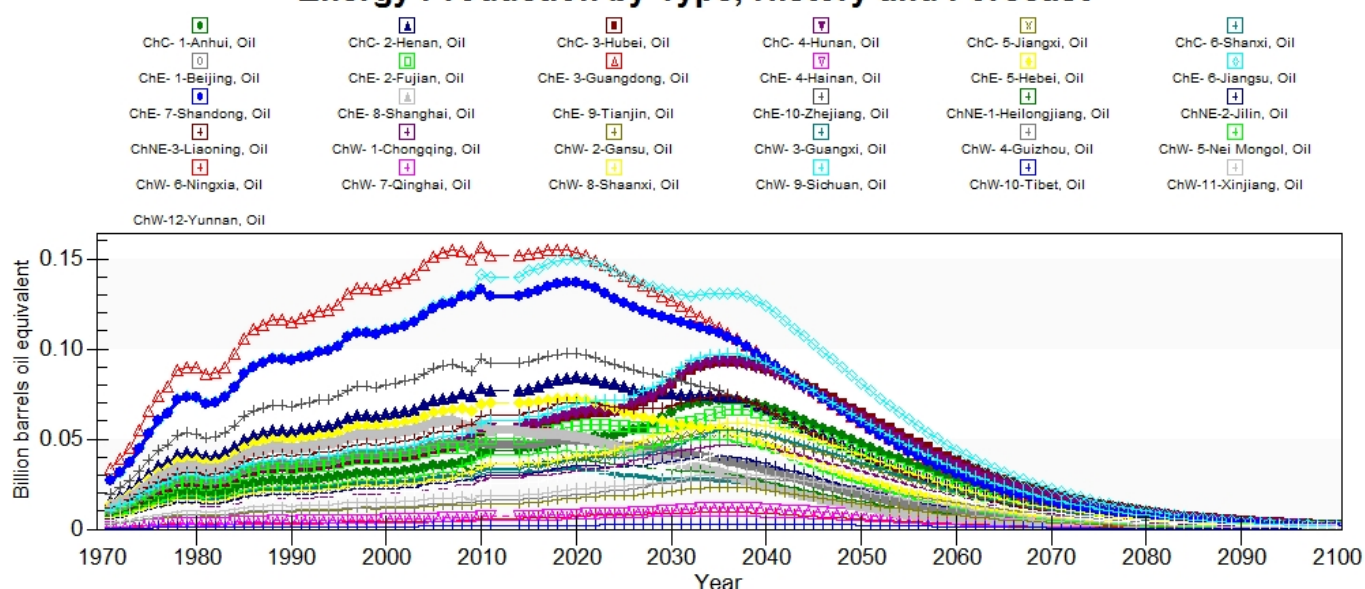
Like coal production because of the use of ApplyMultAll and that there is not historical oil production data in the 186 model for China prior to 1970, the data prior to 1970 is not being read into the model. The model interpolates the data and estimates missing data through 2011. The 2011 data is identical to the first year of forecast in 2014. Jiangsu and Guangdong are the greatest producers of oil. Oil production peaks around 2015 and declines in most provinces (except for Sichuan and Hunan which peak around 2035) through the end of the time horizon.

This series could be updated using data from the China Statistical Yearbooks 2005-2016 in Chapter 13 *Industry* table 13 *Output of Industrial Products by Region*. It would need converted to BBOE to match the historical data.

EnReserCoal

Coal reserves were found in the China Statistical Yearbooks 2006 and was converted from tons to BBOE by multiplying by 0.005131. There is only one year of data, 2005.

Energy Reserves, History and Forecast
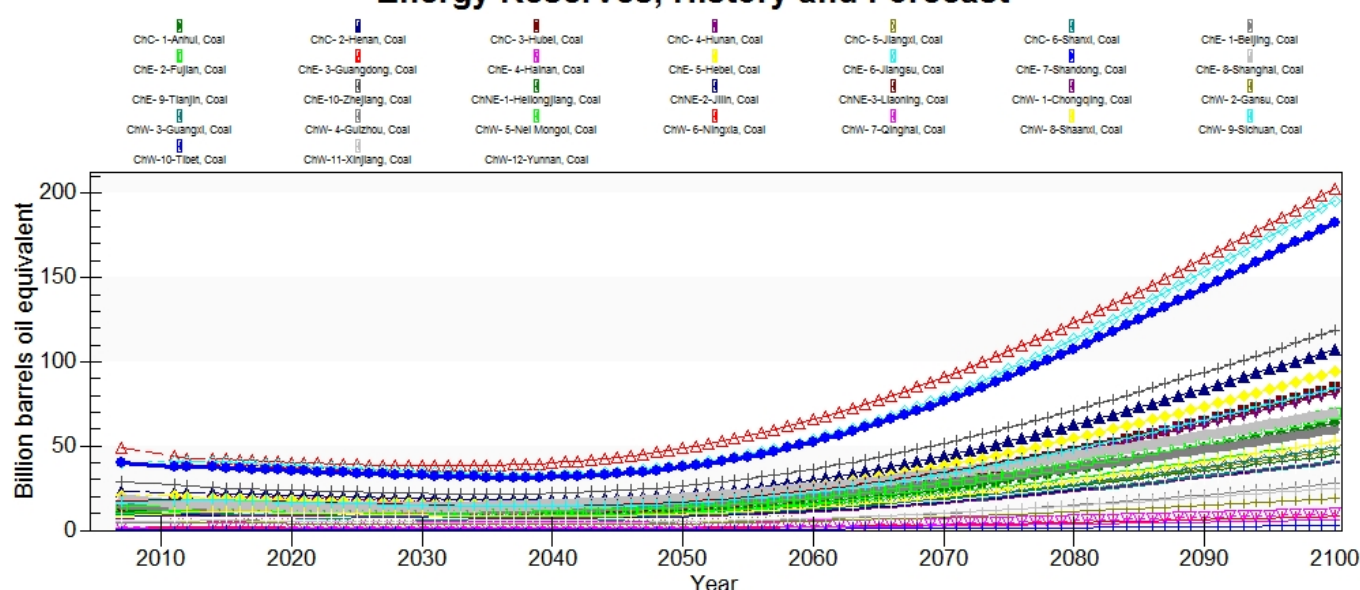
Coal energy reserves smoothly transition from the historical data to the forecast. Guangdong and Jiangsu have the largest coal reserves. Coal reserves are forecast to increase through the end of the time horizon.

This series could be updated using data from the more recent editions of the China Statistical Yearbooks 2007-2016 in Chapter 8 *Resources and Environment* table 5 *Ensured Reserves of Major Energy and Ferrous Metals by Region.* This update would be need to be converted BBOE to blend with the historical data.

EnReserGas

Gas reserves were found in the China Statistical Yearbooks 2006 and was converted from tons to BBOE by multiplying by 0.005131. There is only one year of data, 2005.

Energy Reserves, History and Forecast
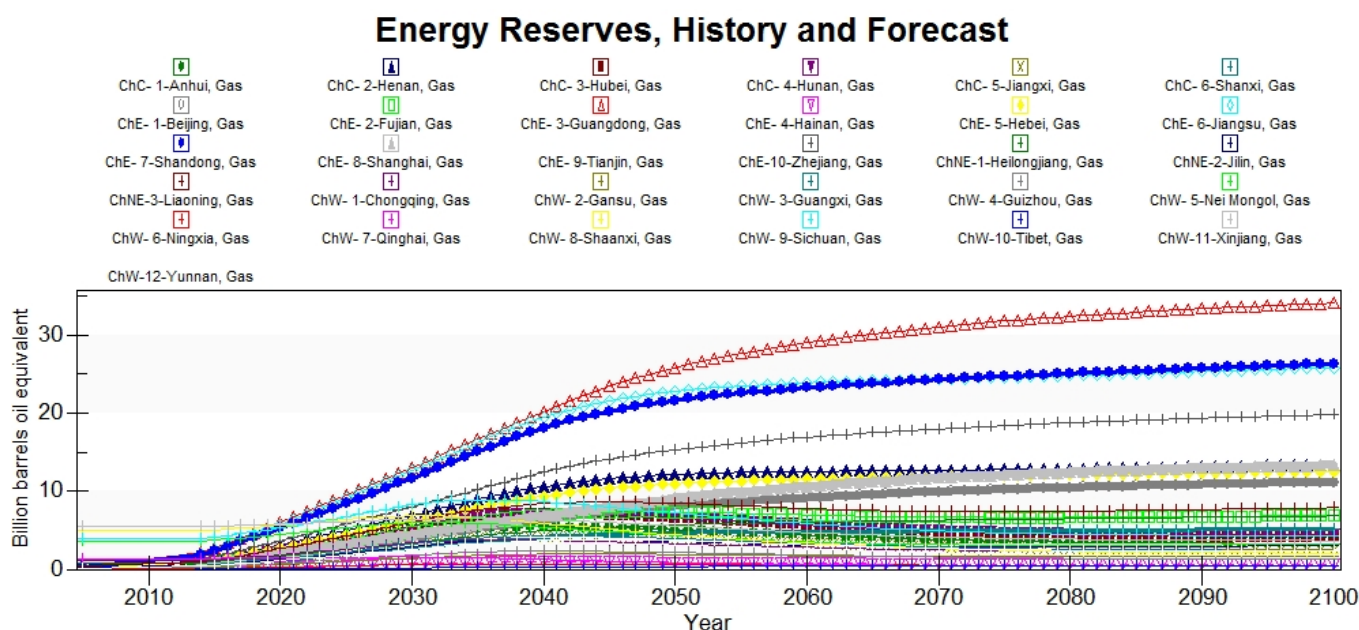
The forecasts dramatically increase the gas reserves across all provinces, but most notably Jiangsu, Shandong, and Guangdong provinces.

This series could be updated using data from the more recent editions of the China Statistical Yearbooks 2007-2016 in Chapter 8 *Resources and Environment* table 5 *Ensured Reserves of Major Energy and Ferrous Metals by Region.* This update would be need to be converted BBOE to blend with the historical data.

EnReserGasBP

This is the same data as above in EnReserGas.