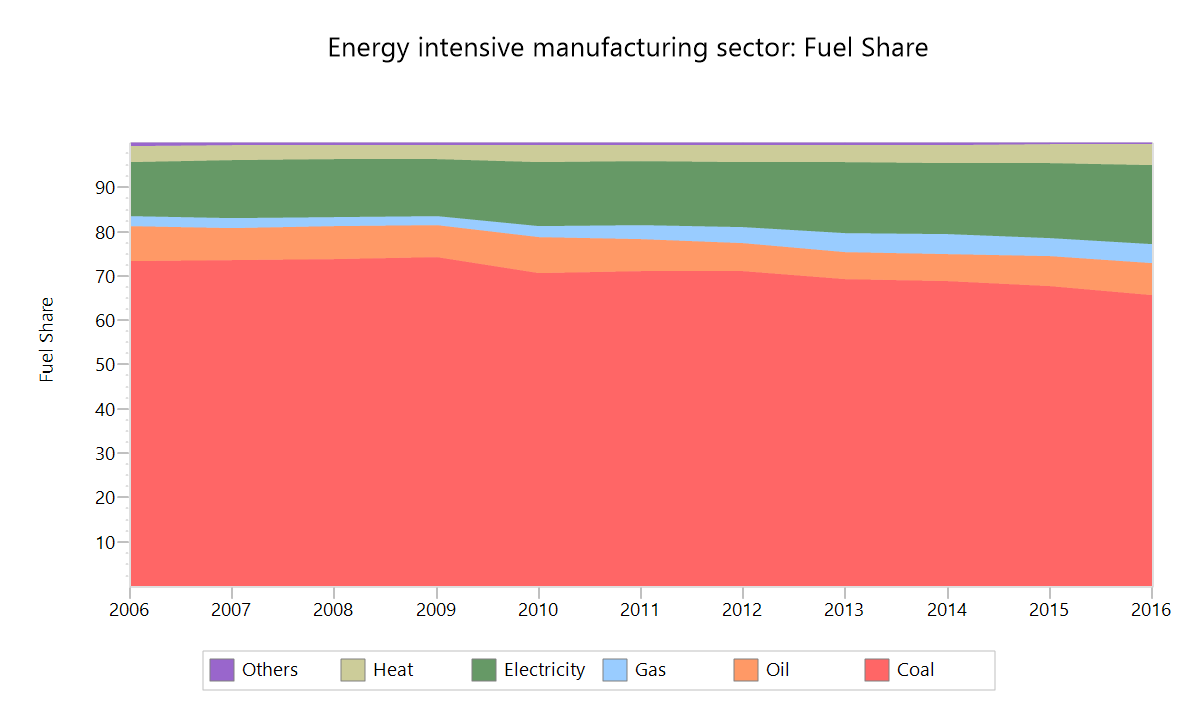
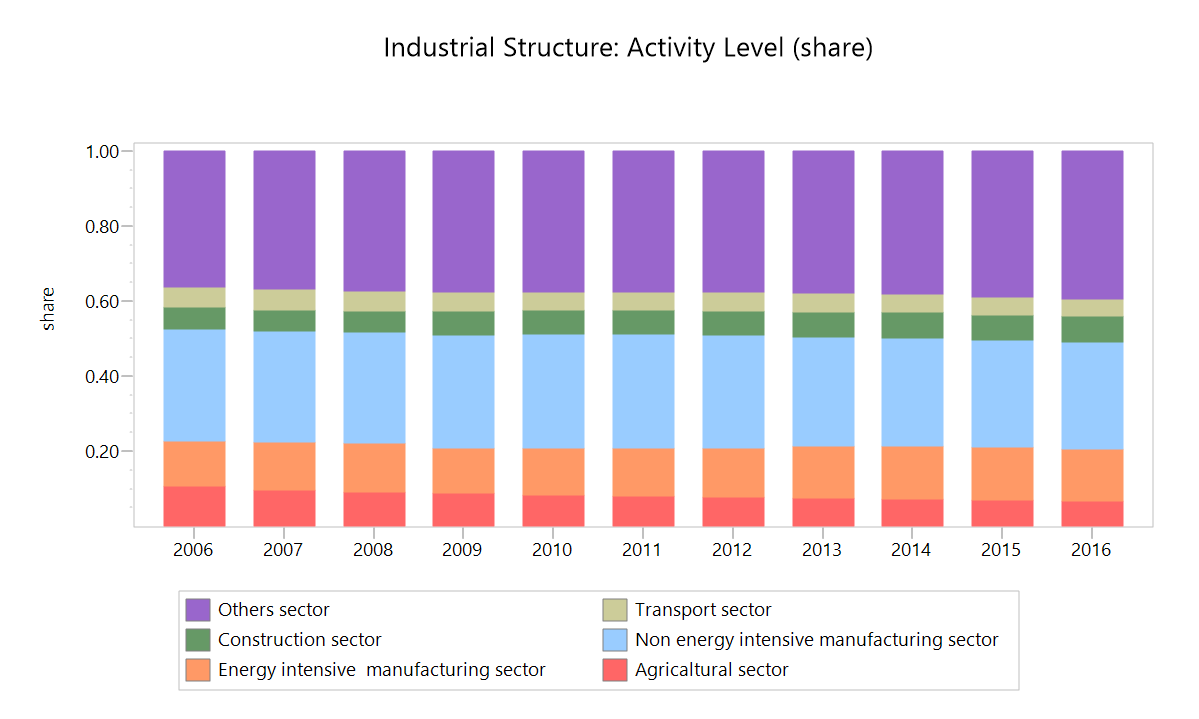
A1: Supplemented Historic Data



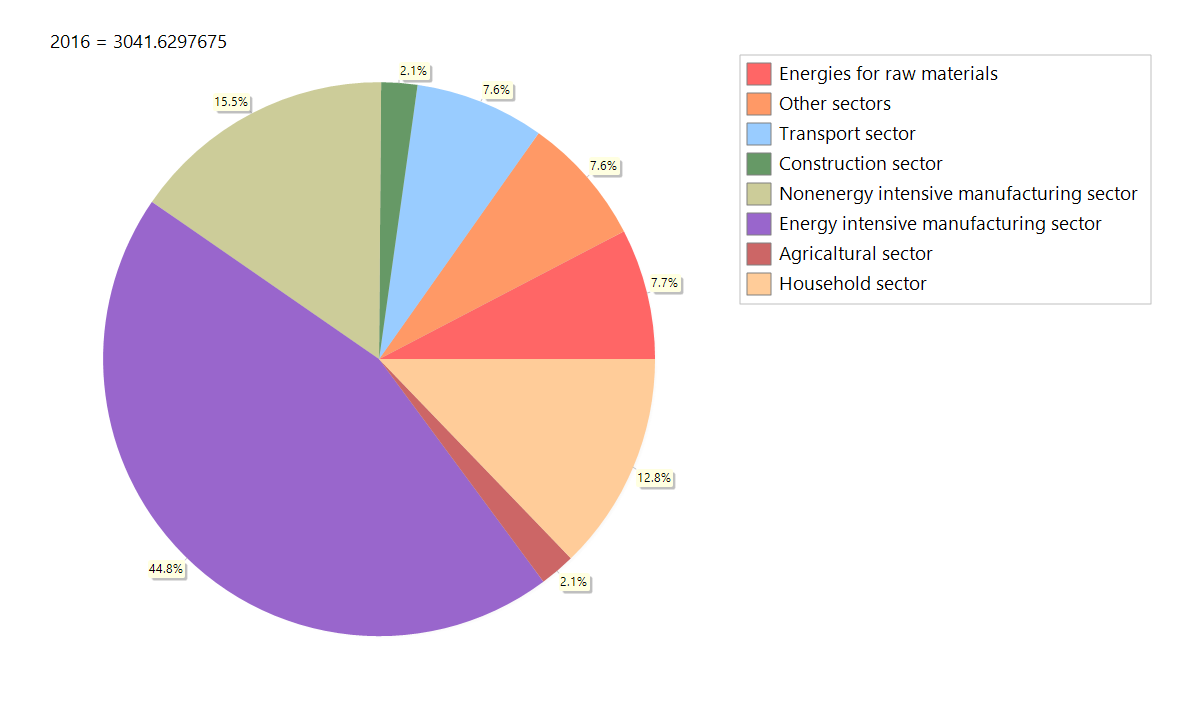
Data Source: self-collected from NBSC (2007a; 2017b) and self-recalculated

A1-1. Fuel share of energy-intensive manufacturing sector



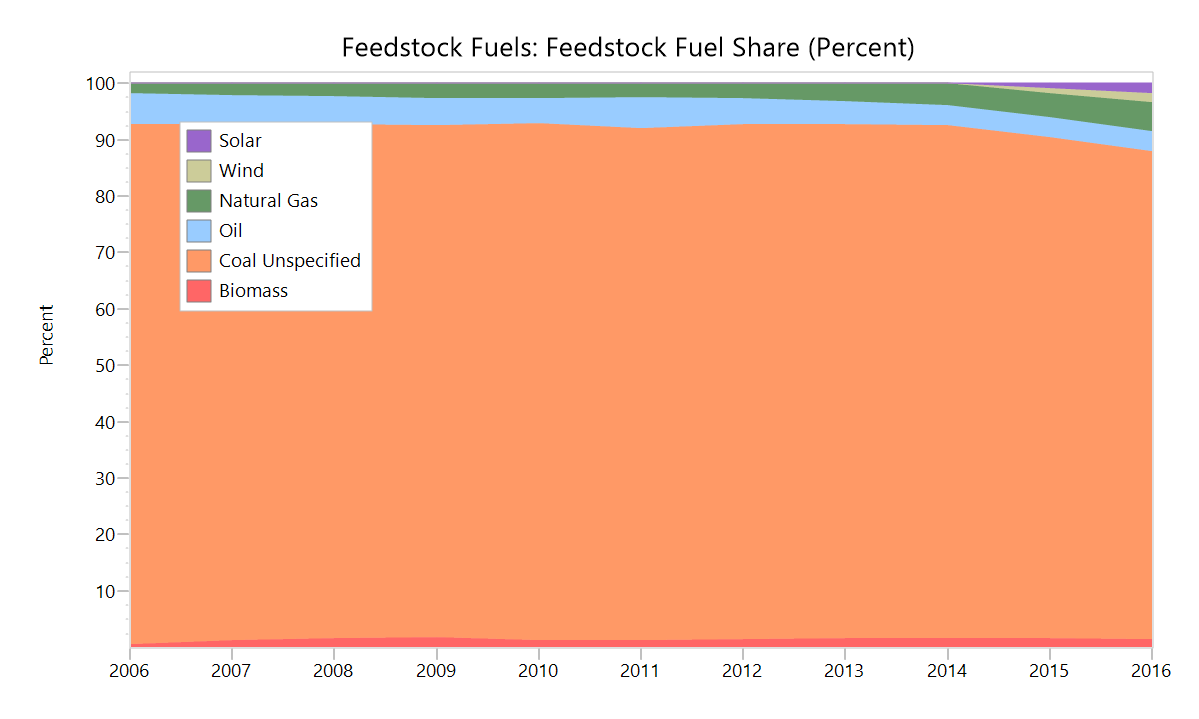
Data Source: self-collected from NBSC (2007a; 2017b), NBSC (2001-2006, 2007, 2008-2016, 2017c) and NBSC (<http://www.stats.gov.cn/>)

A1-2. Share of GDP for various sectors in China



Data Source: self-collected from NBSC (2007a; 2017b) and self-calculated

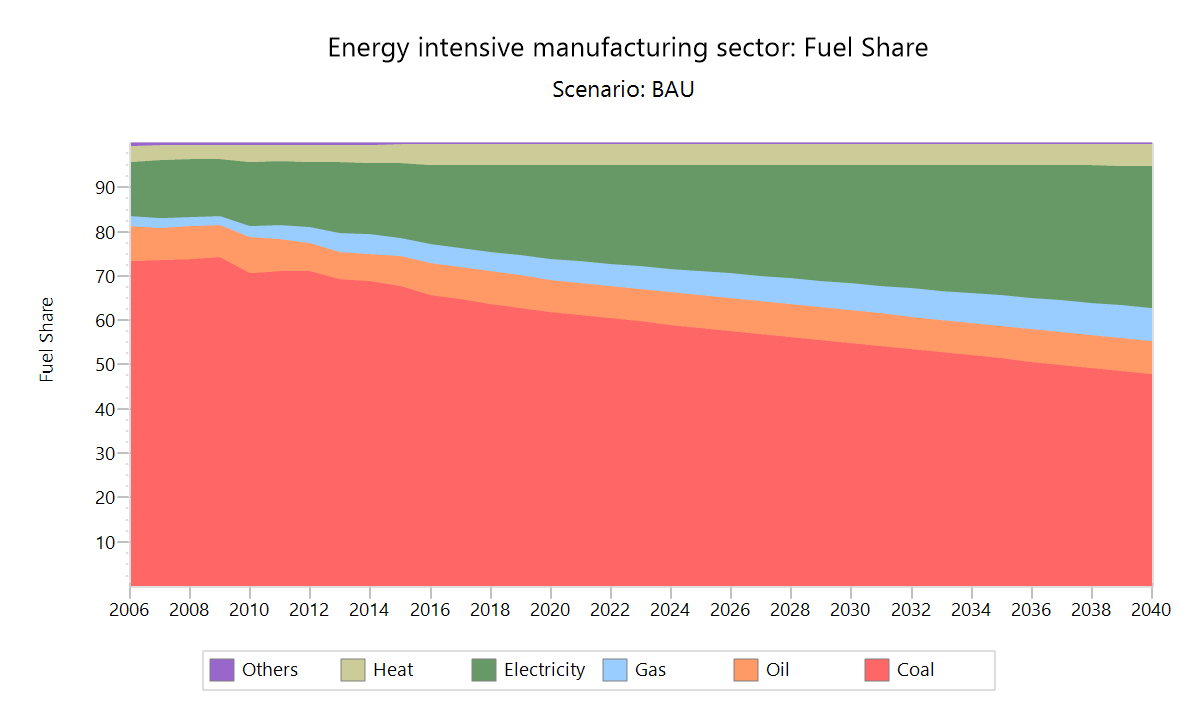
A1-3. Share of energy consumption for each sector in China (2016)

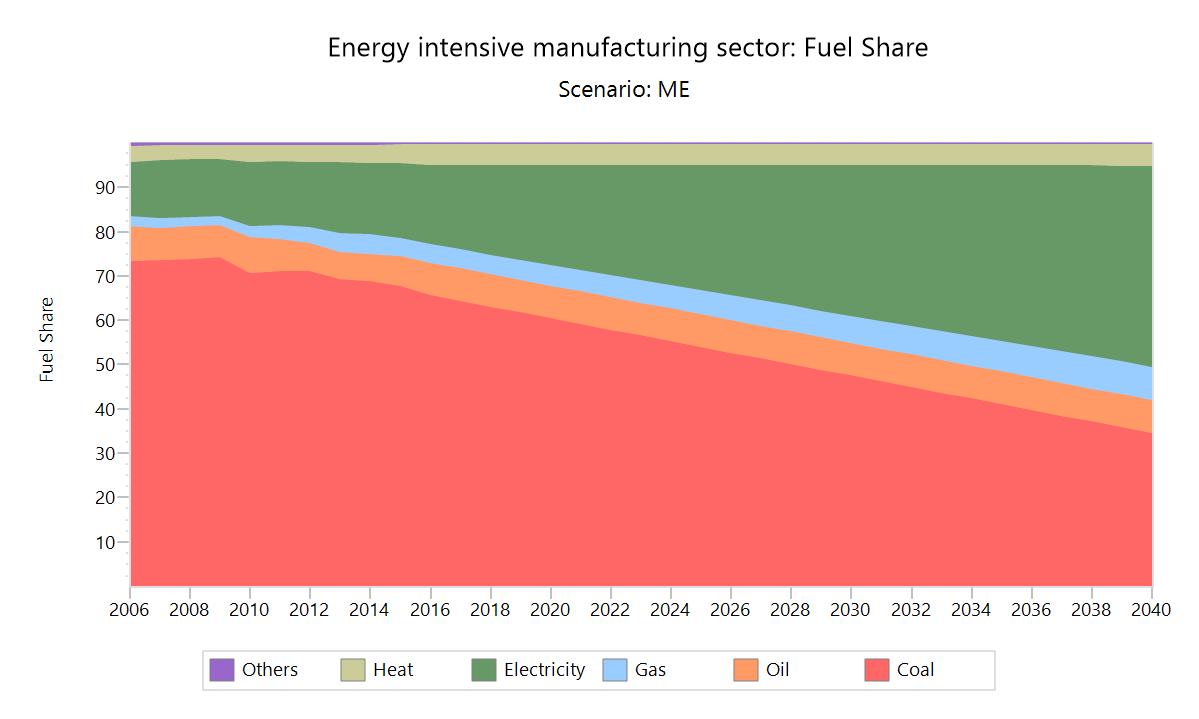


Data Source: self-collected from NBSC (2007a; 2017b) and self-calculated

A1-4. Historical fuel mix for heat production

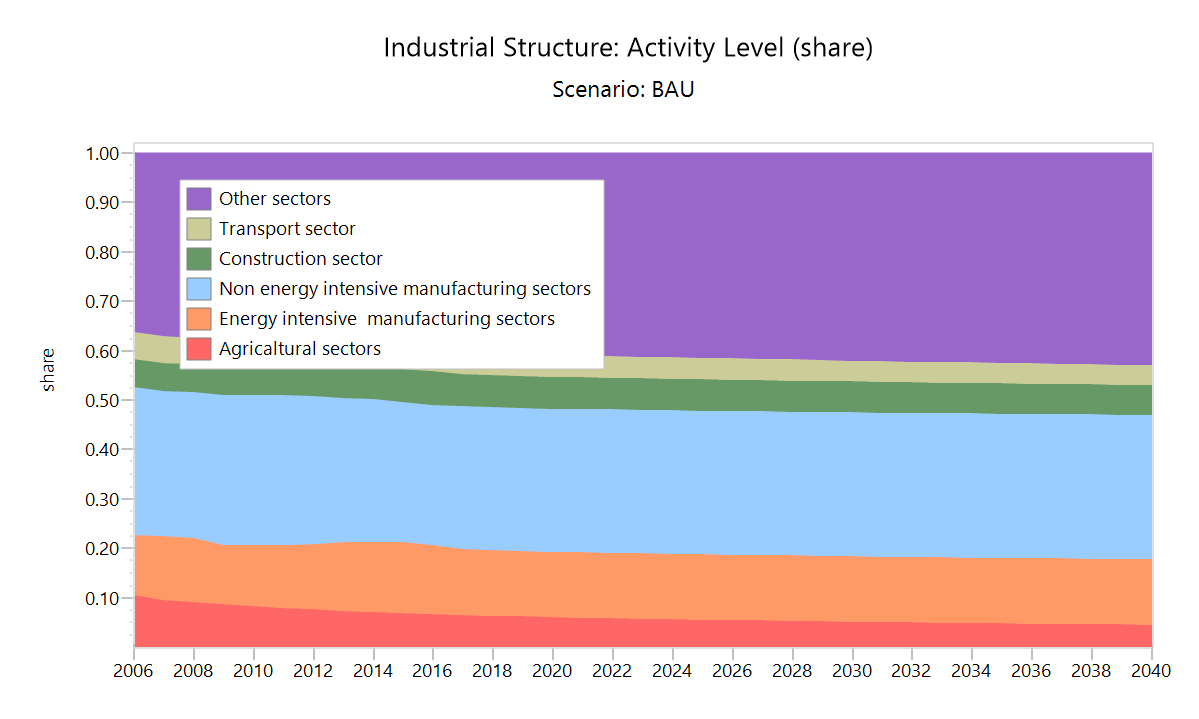
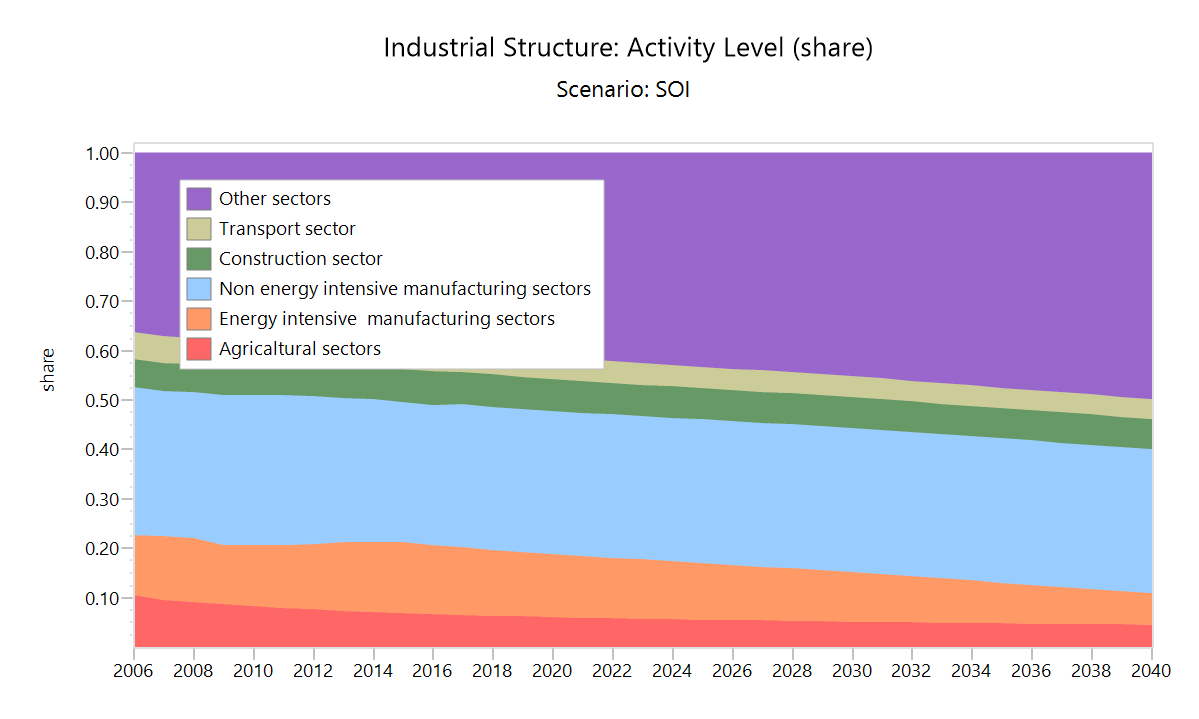
A2: Supplemented Hypothesis Data





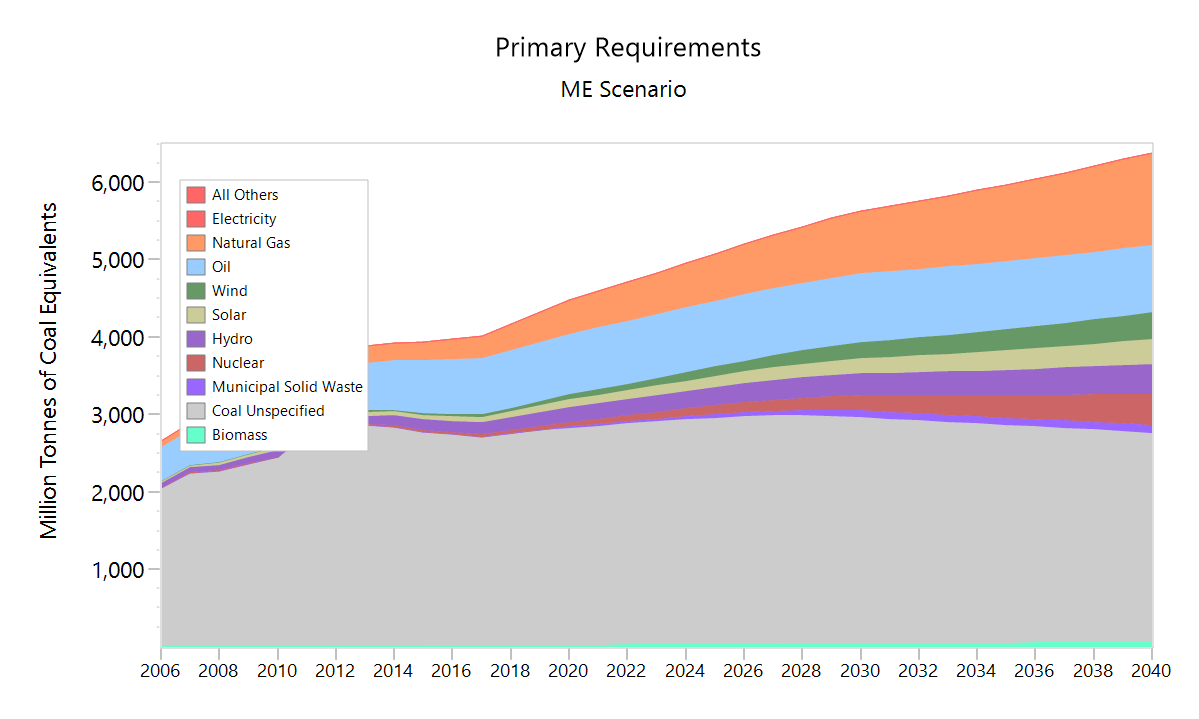
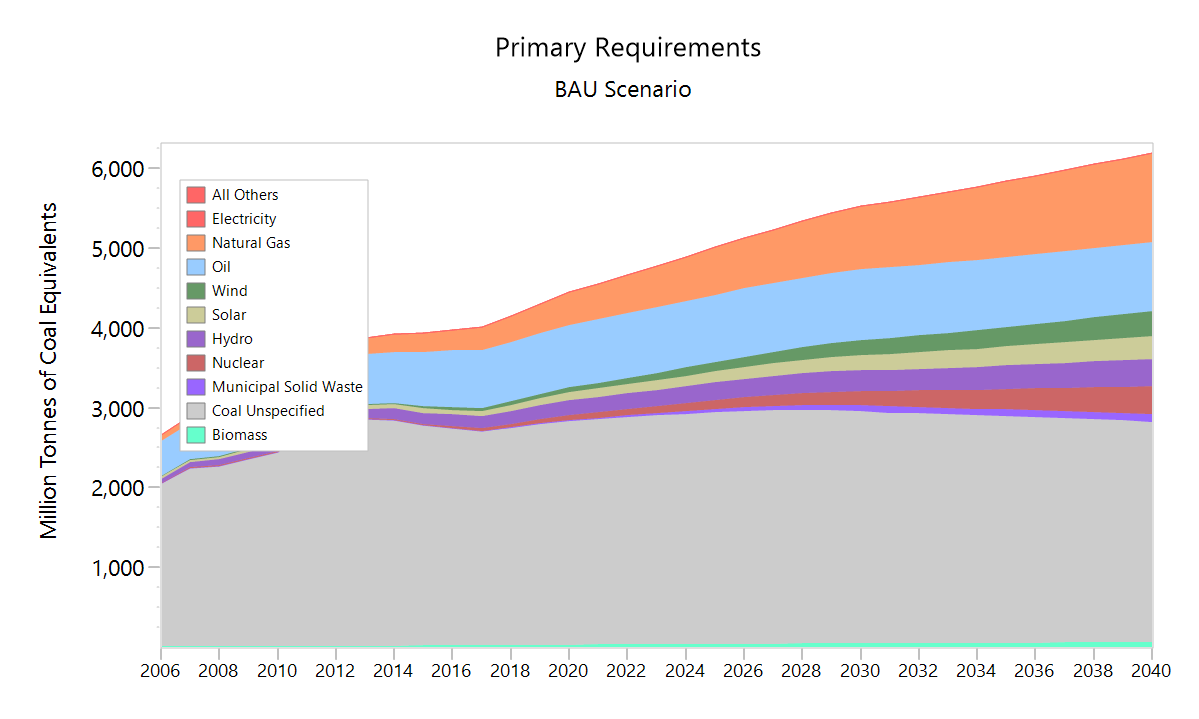
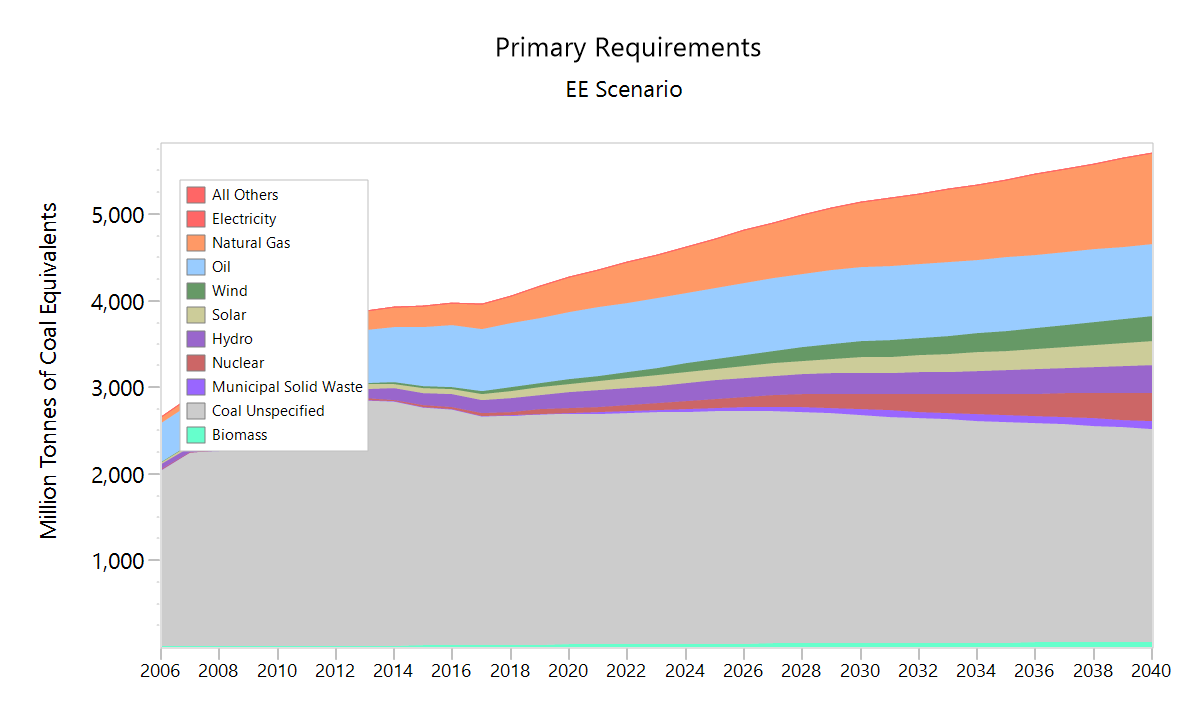
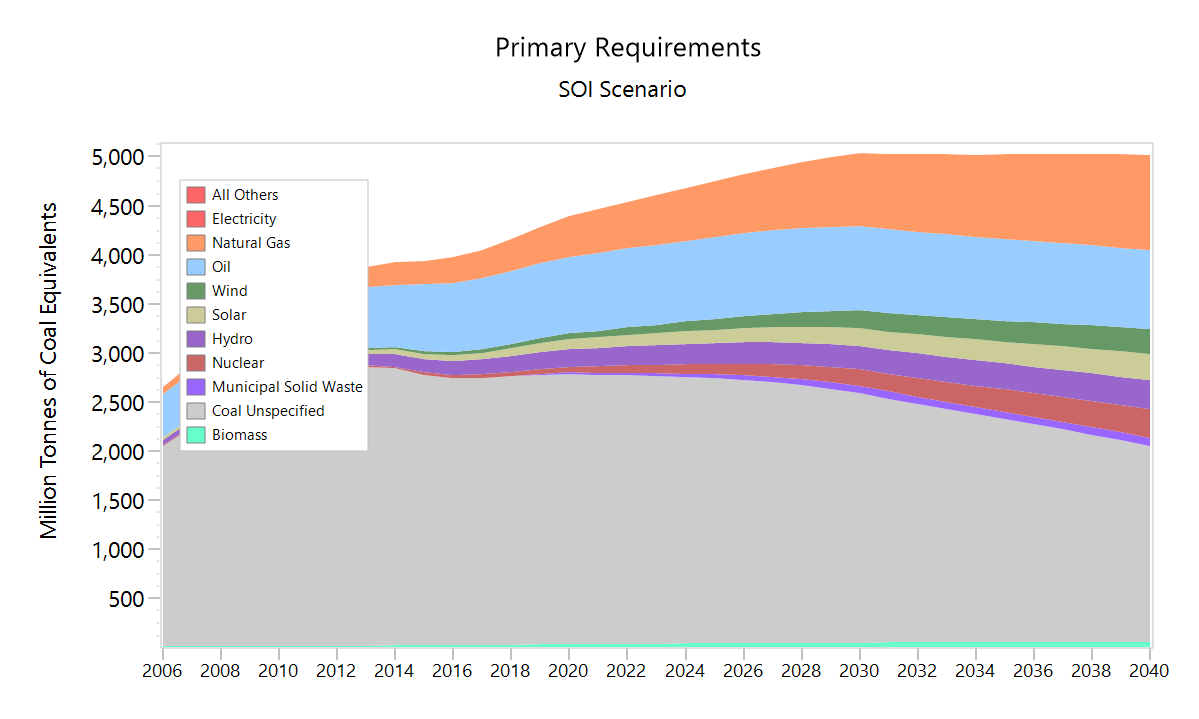
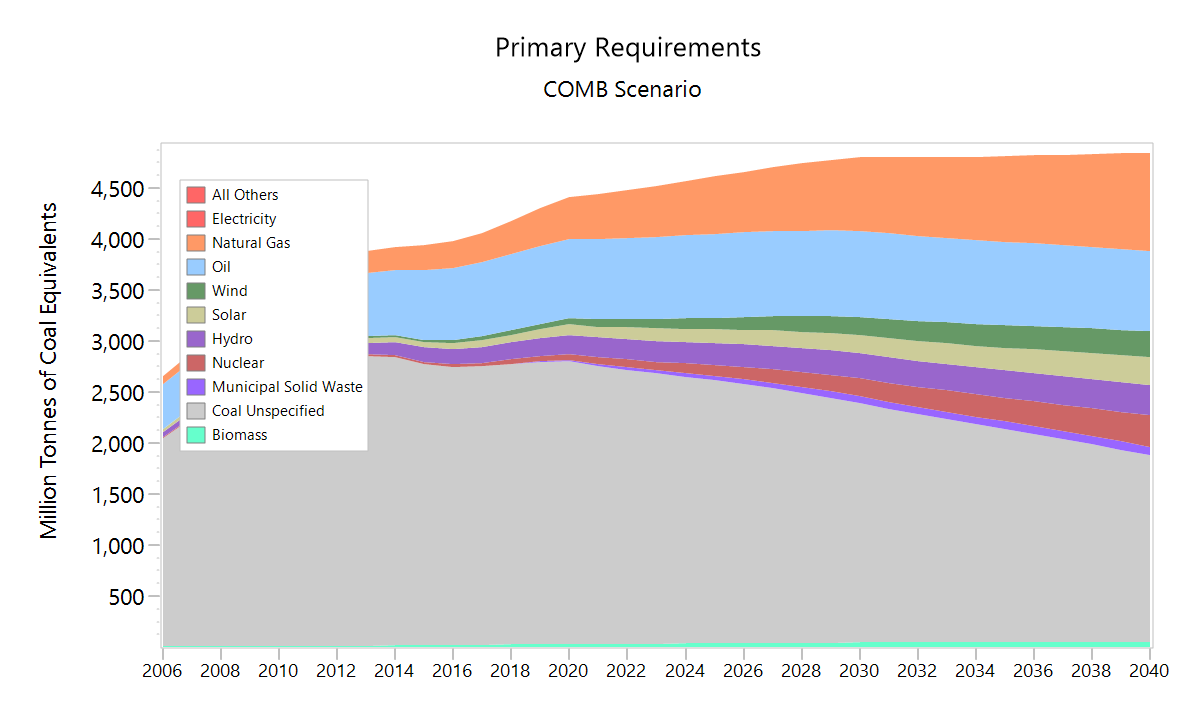
A2-1. Evolution of the fuel mix for energy-intensive manufacturing sector in the BAU and ME scenarios

A2-3. Comparison of the energy intensities of AV for energy-intensive manufacturing sector in BAU and EE scenarios

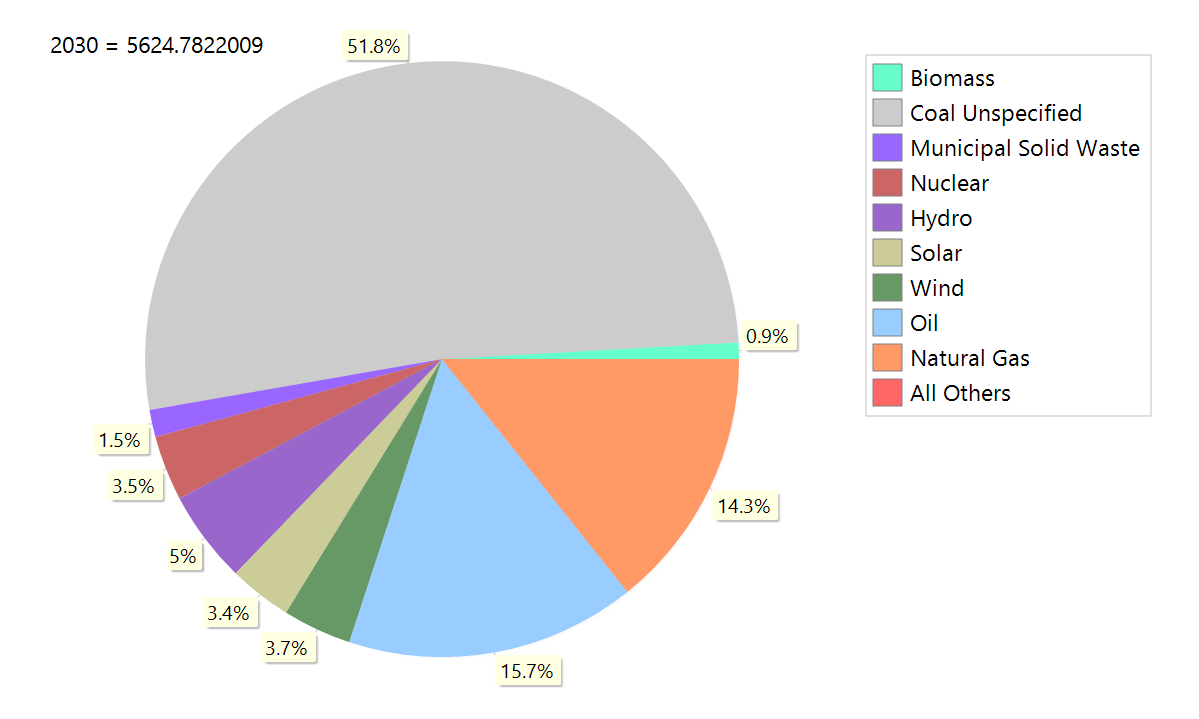
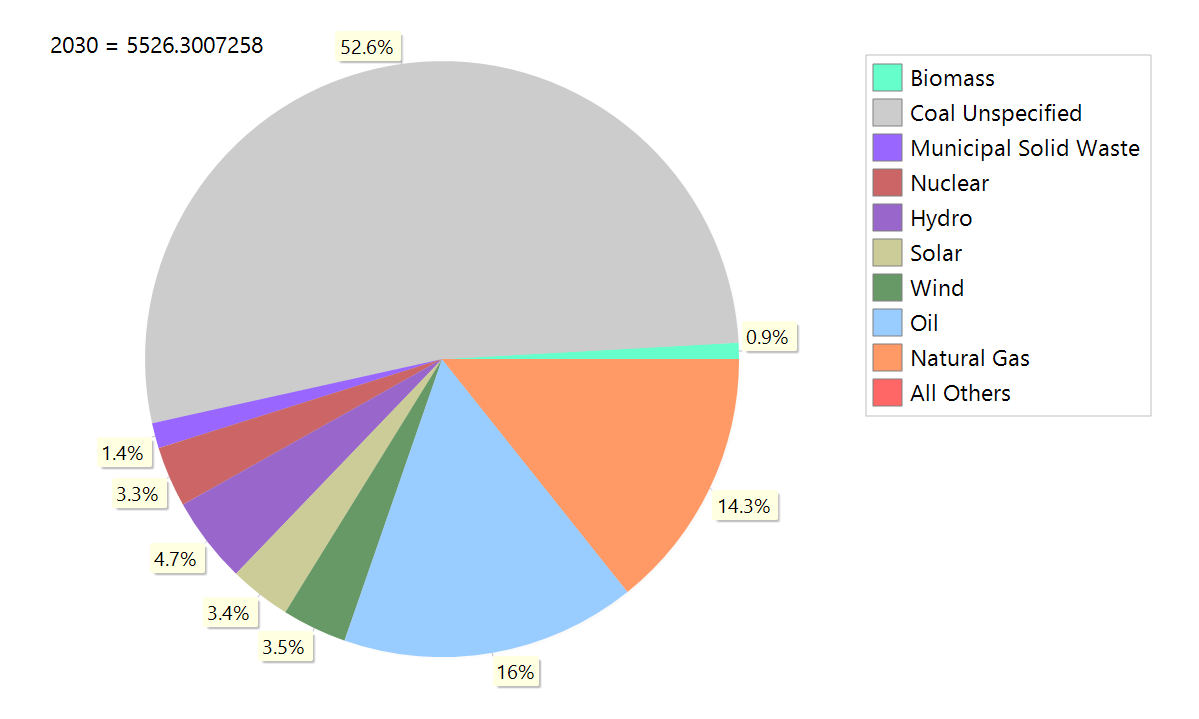
 

A2-3. Comparison of the industrial structures in BAU and SOI

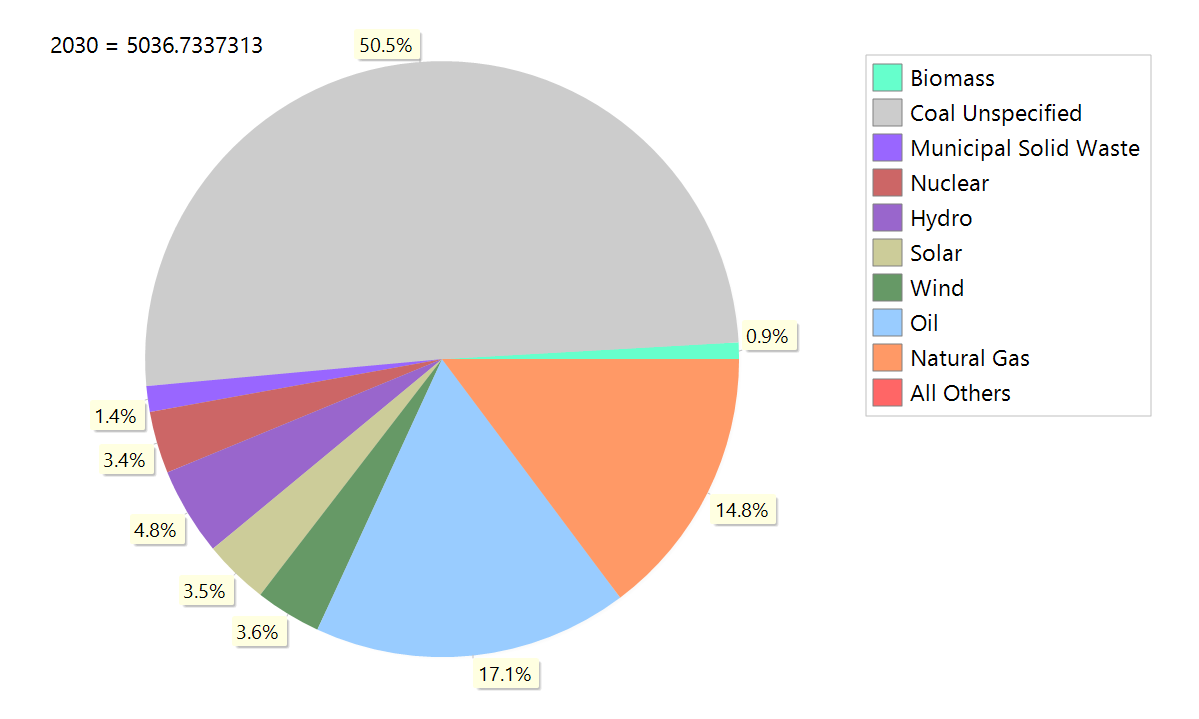
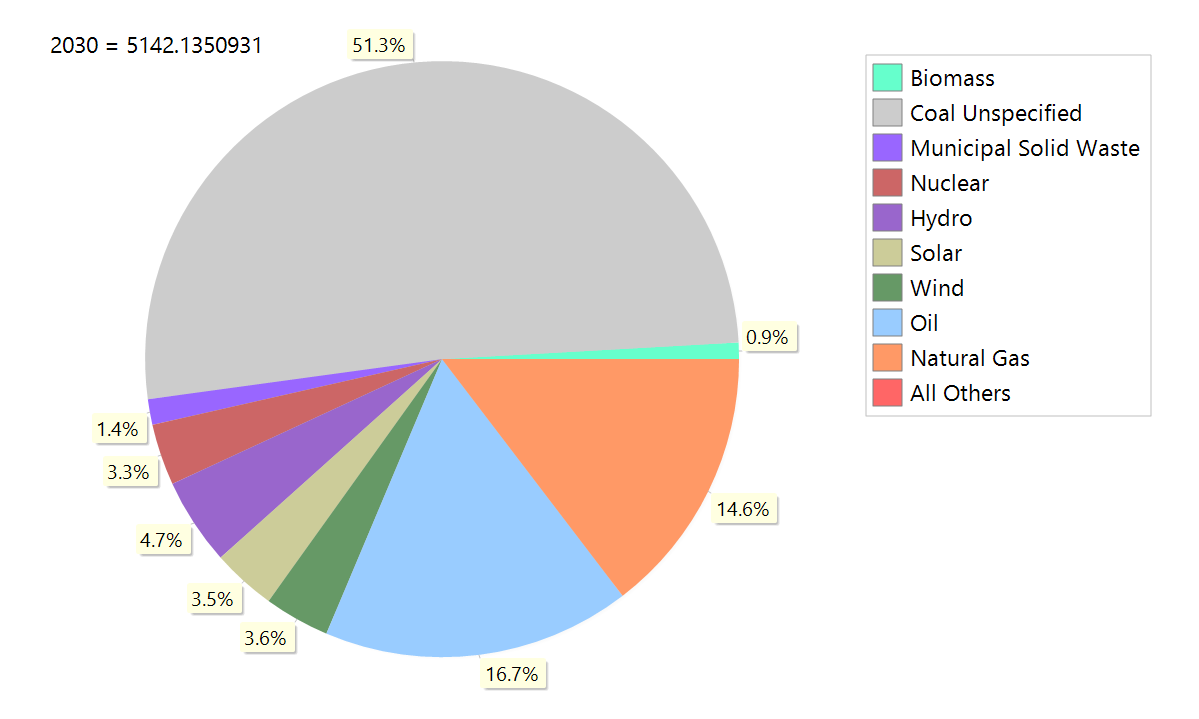
A3: Supplemented Simulation Results

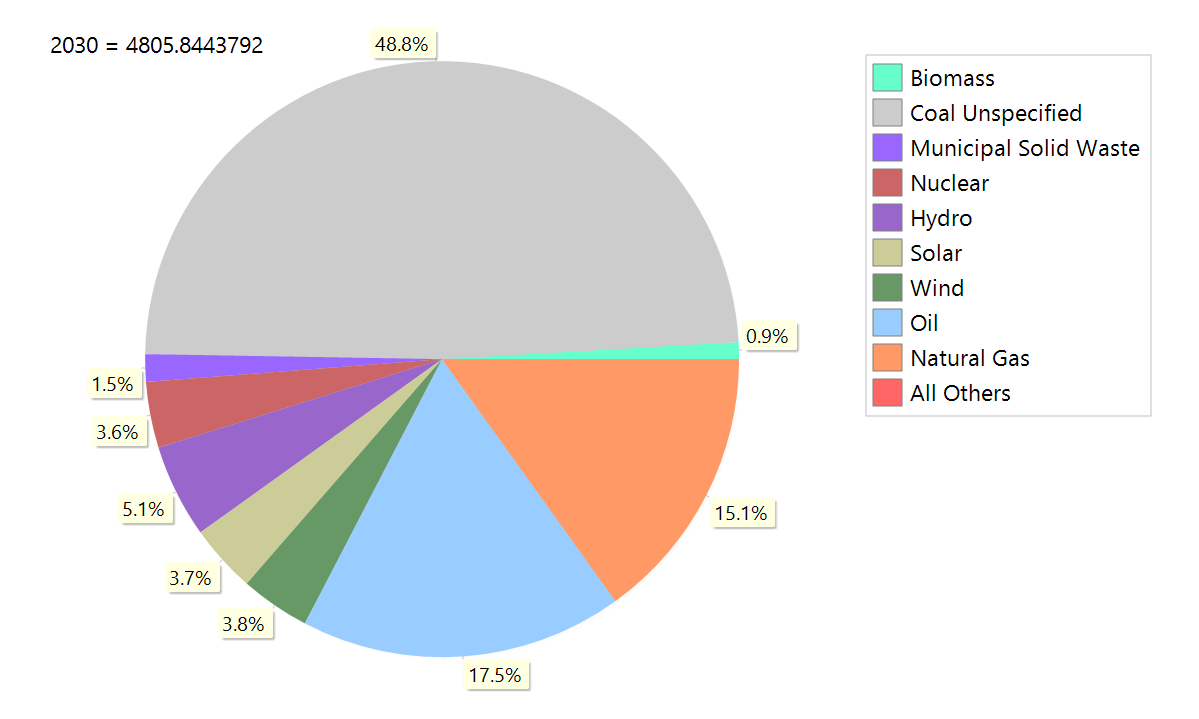
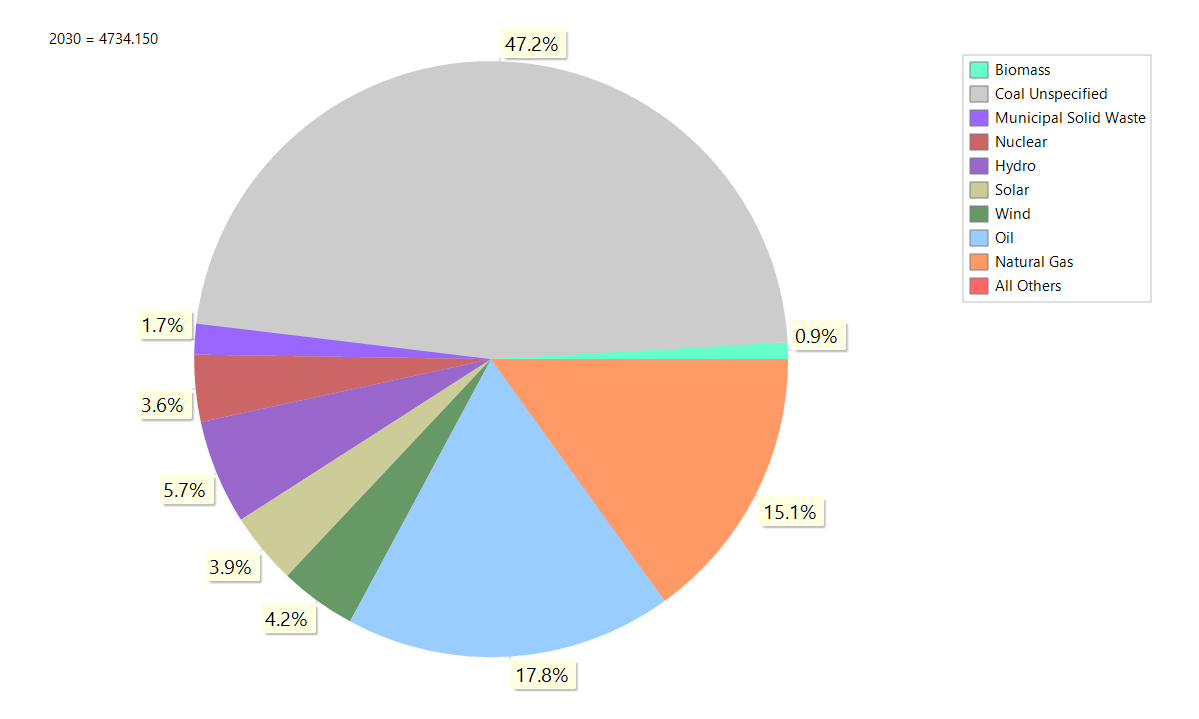
A3-1. Simulation results of the fuel mix for all scenarios



BAU ME

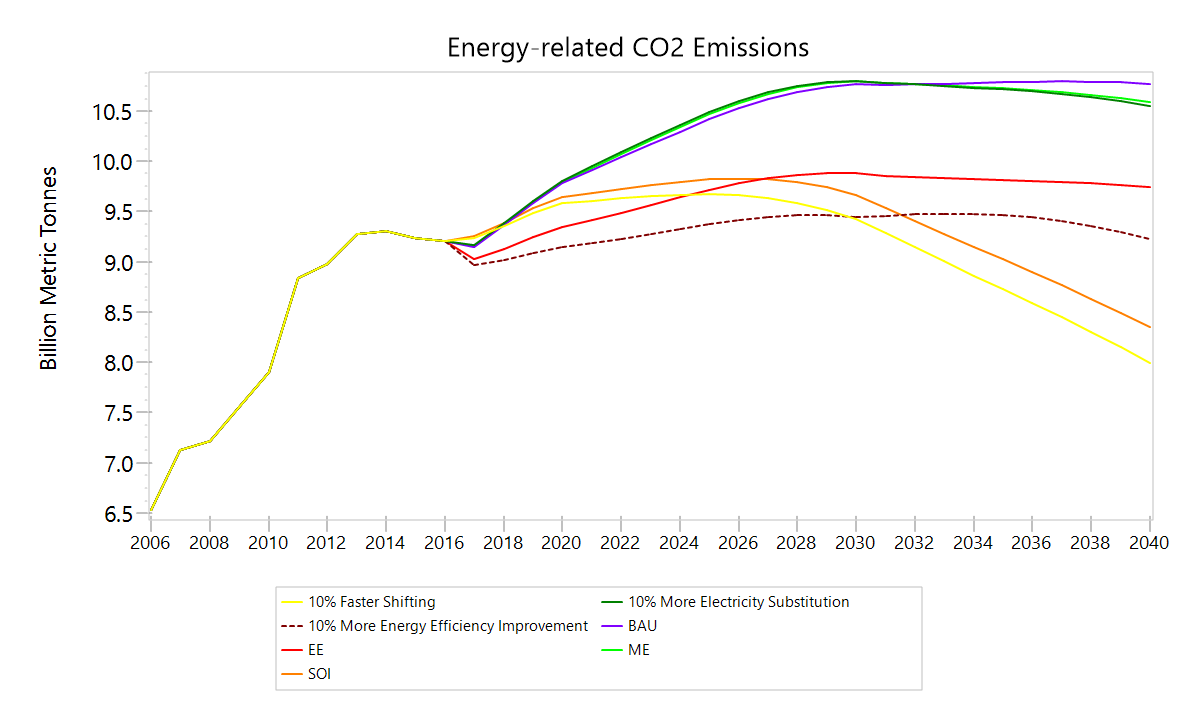


EE SOI

COMB COMB with 10% more non-fossil energy for electricity generation

A3-2. Simulation results of the fuel mix in 2030 for all the scenario



A3-3. Sensitive analysis Results of the energy-related CO2 emissions for each scenario

A3-4. Simulation results of the energy-related CO2 intensity of electricity generation

A3-5. Simulation results of the energy intensity of GDP (tons of coal equivalent per 1,000 yuan)

A1: Supplemented Historic DataA1-1. Fuel share of energy-intensive manufacturing sector

A1-2. Share of GDP for various sectors in China

A1-3. Share of energy consumption for each sector in China (2016)

A1-4. Historical fuel mix for heat production

A2: Supplemented Hypothesis Data

A2-1. Evolution of the fuel mix for energy-intensive manufacturing sector in the BAU and ME scenarios

A2-3. Comparison of the energy intensities of AV for energy-intensive manufacturing sector in BAU and EE scenarios

A2-3. Comparison of the industrial structures in BAU and SOI

A3: Supplemented Simulation Results

A3-1. Simulation results of the fuel mix for all scenarios

A3-2. Simulation results of the fuel mix in 2030 for all the scenario

A3-3. Sensitive analysis Results of the energy-related CO2 emissions for each scenario

A3-4. Simulation results of the energy-related CO2 intensity of electricity generation

A3-5. Simulation results of the energy intensity of GDP (tons of coal equivalent per 1,000 yuan)