

The Next 100 Years of Global Energy: Part IV

The Global Power Fuel Mix and Carbon Transition*

Mark A. Snell¹

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¹Retired President, Sempra Energy, San Diego, California (mark.a.snell@icloud.com)

Outline

World energy consumption

World electricity consumption

Electricity fuel mix

Change 1990-2015

Coal and lignite

Natural gas

Nuclear

Hydro

Wind and solar

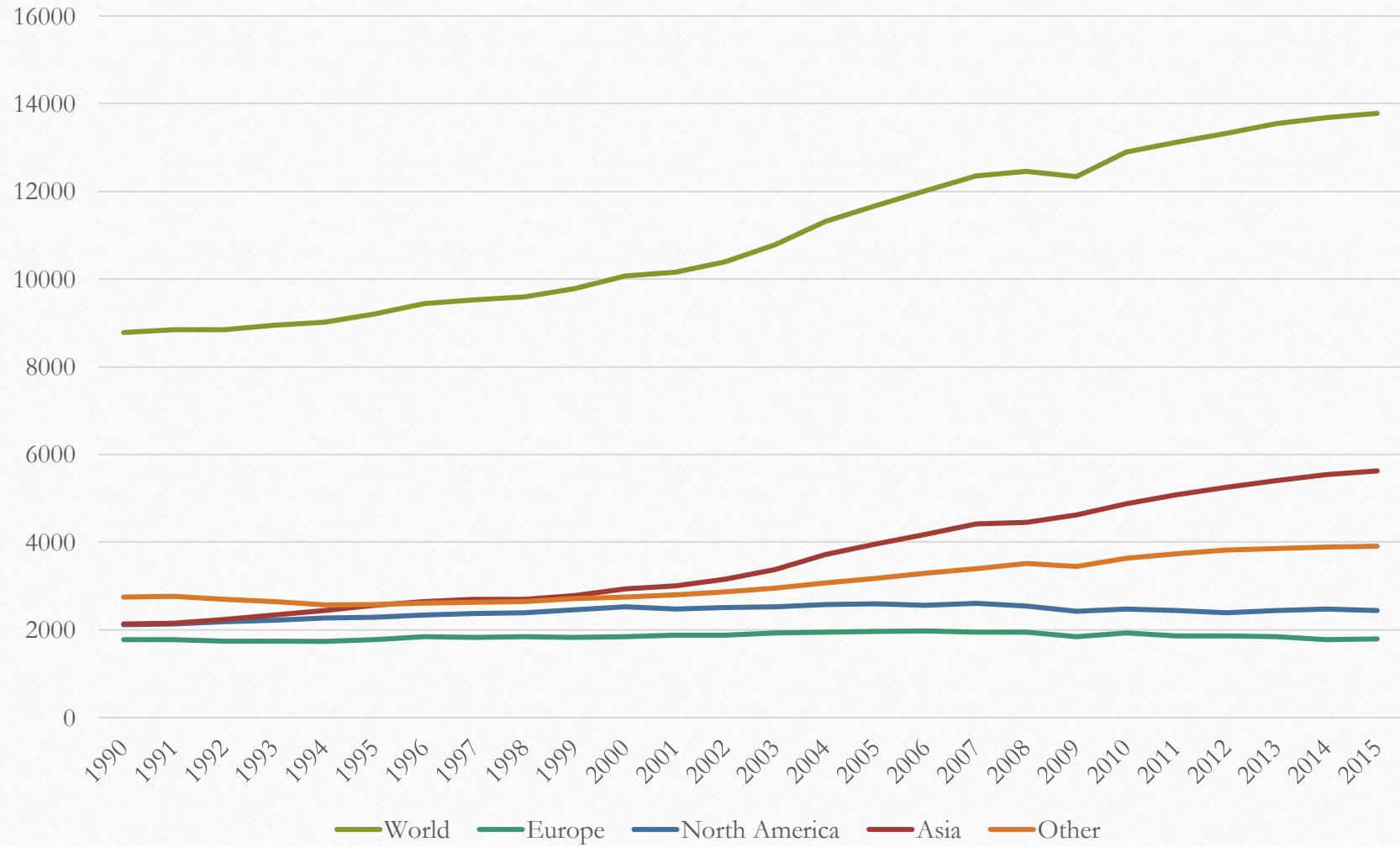
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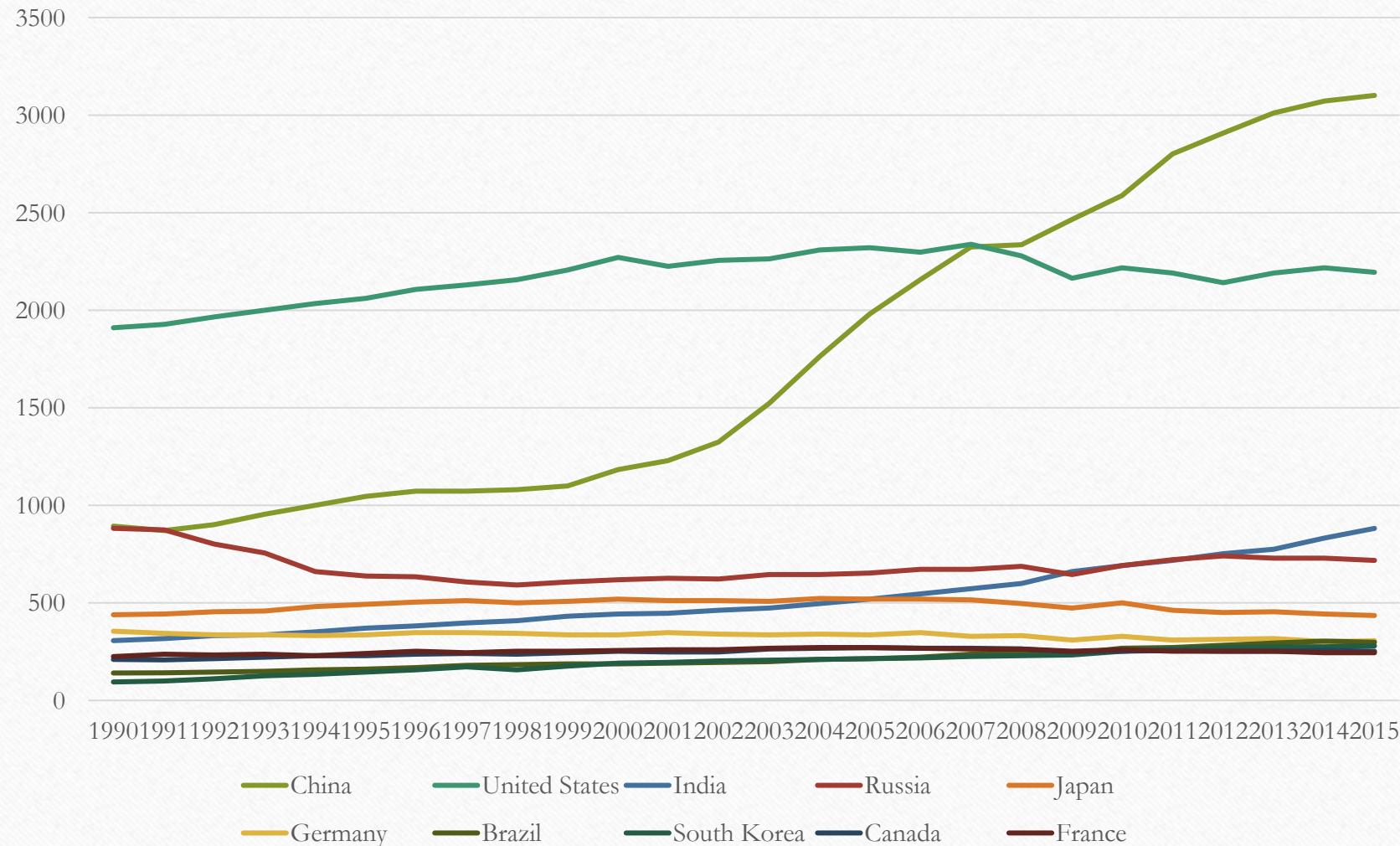
Retired President of Sempra Energy



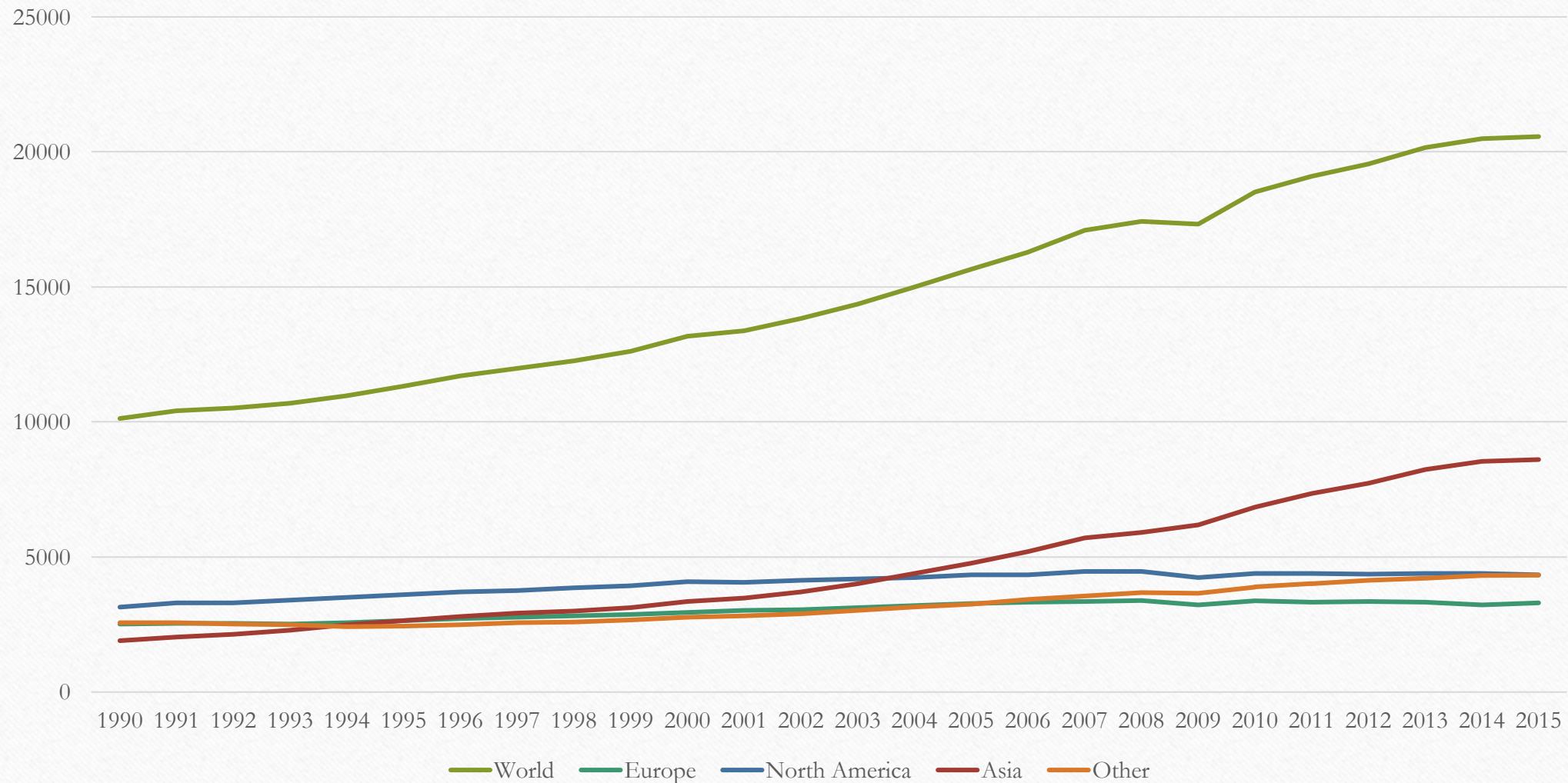
World Energy Consumption (Mtoe)



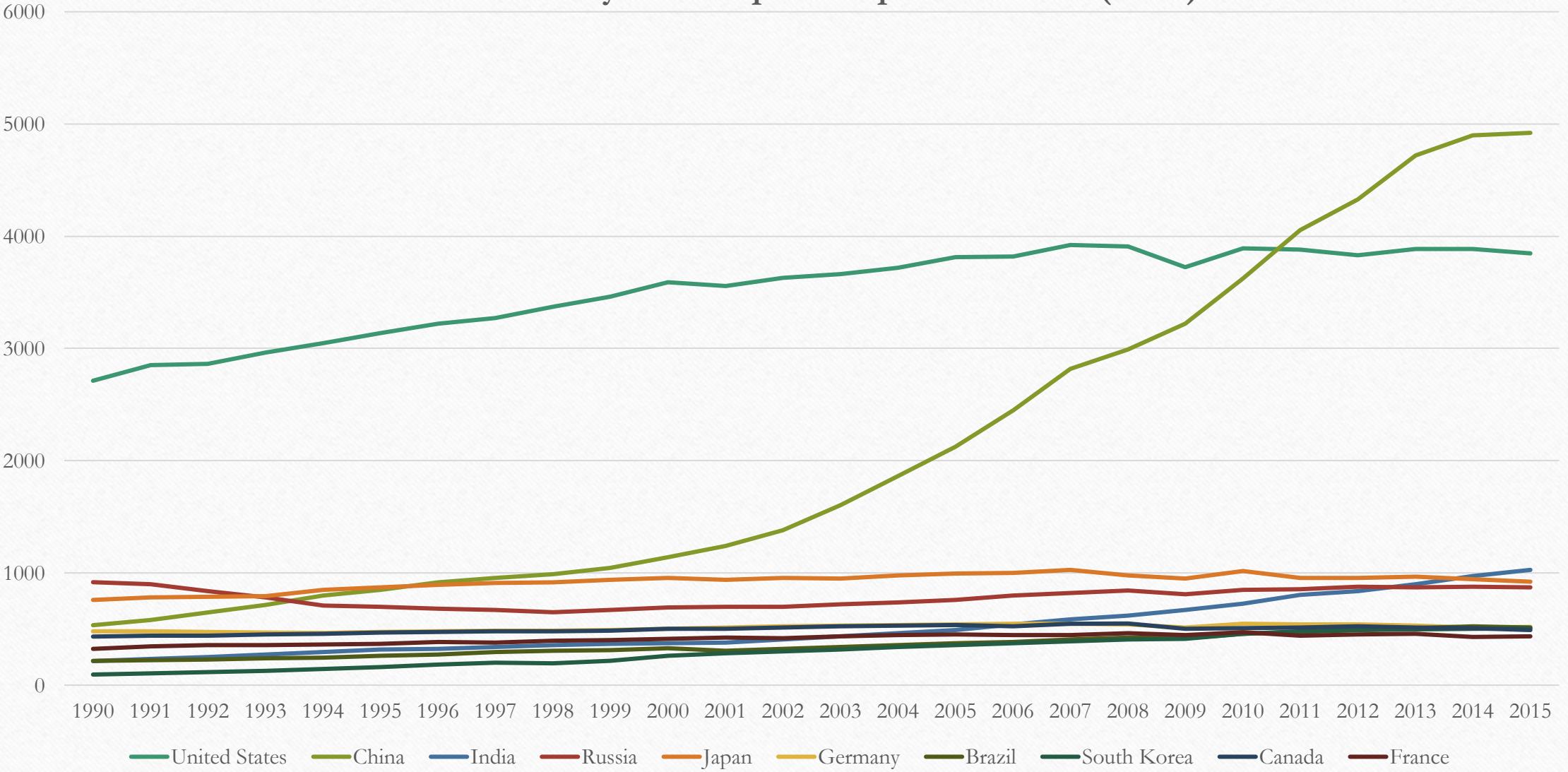
Energy Consumption Top 10 Countries (Mtoe)



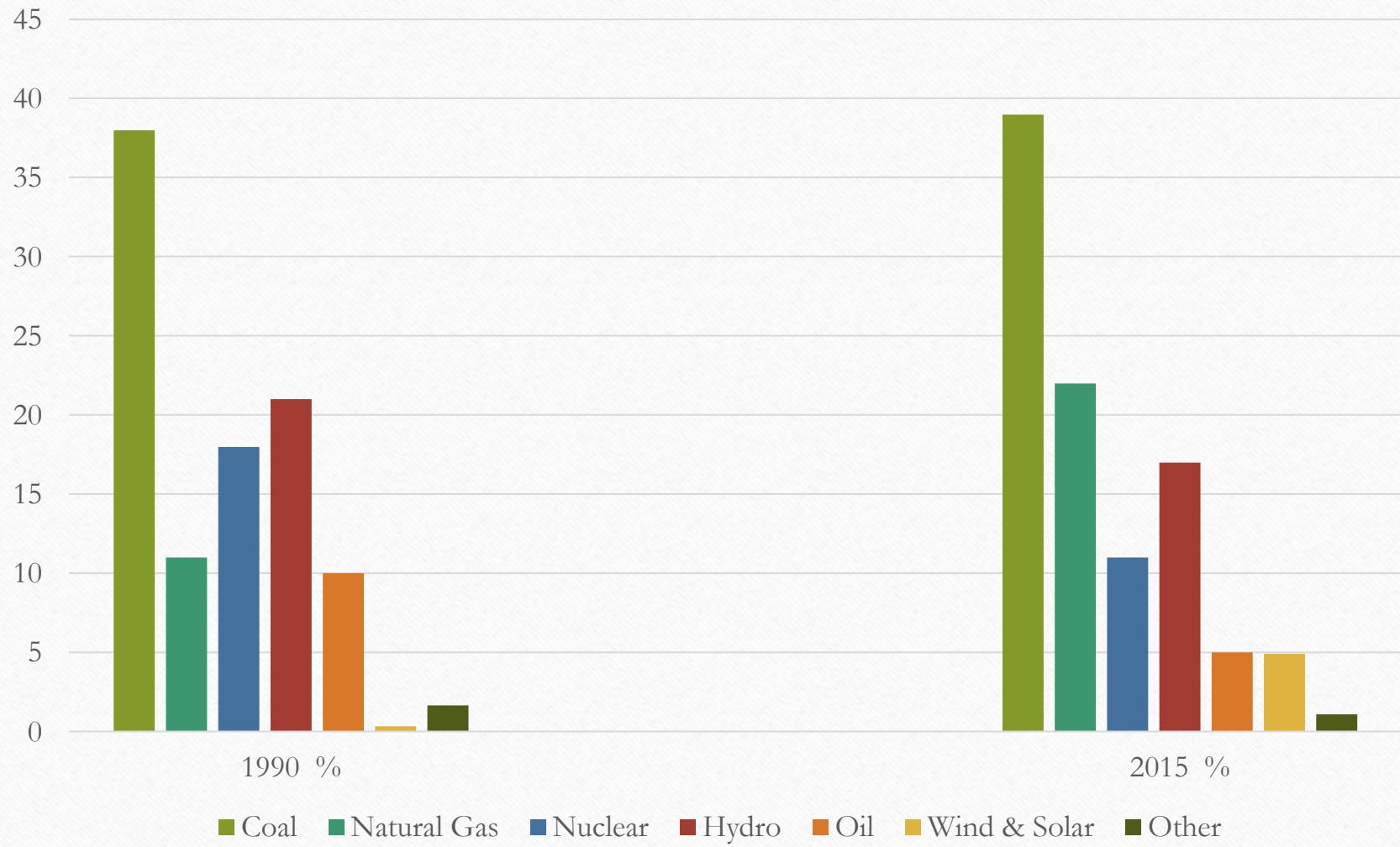
World Electricity Consumption (TWh)



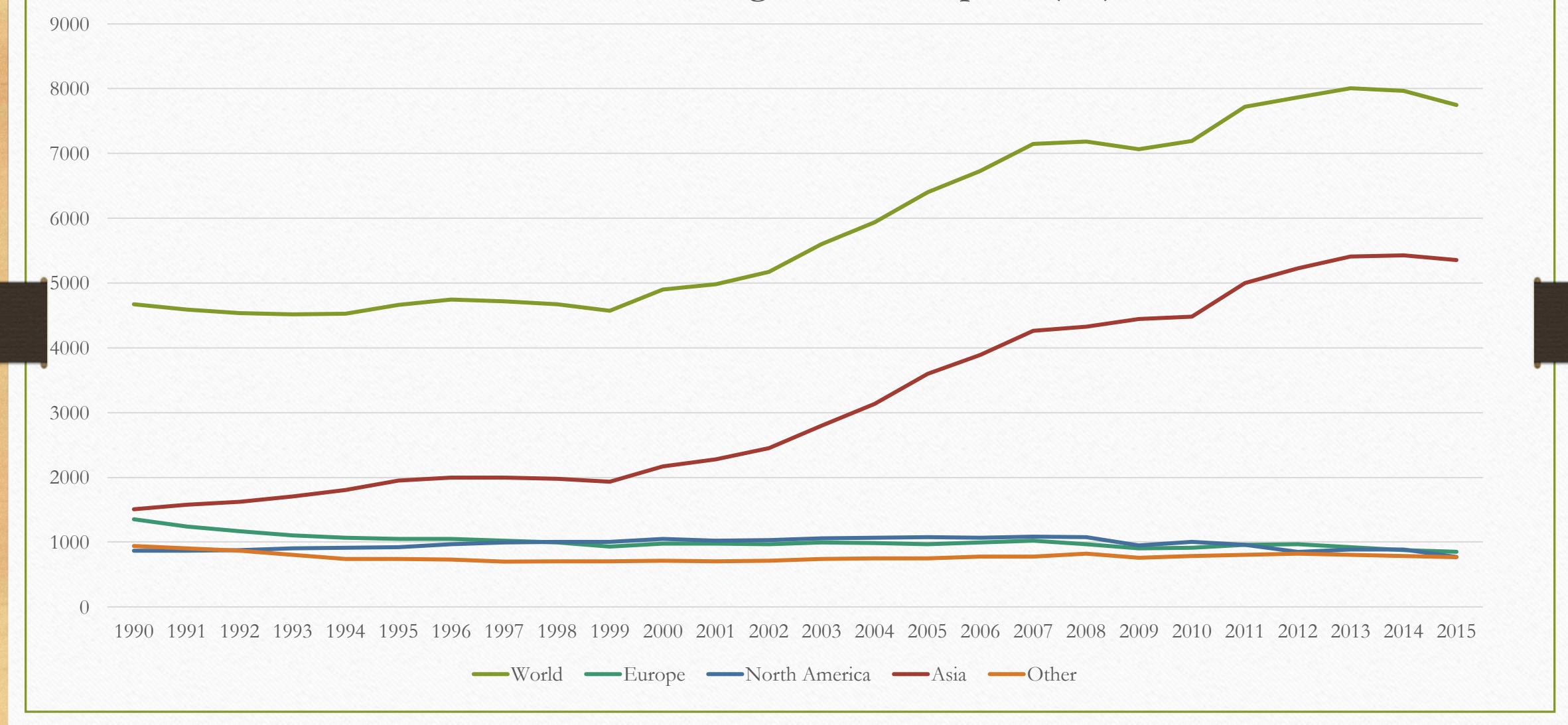
Electricity Consumption Top 10 Countries (TWh)



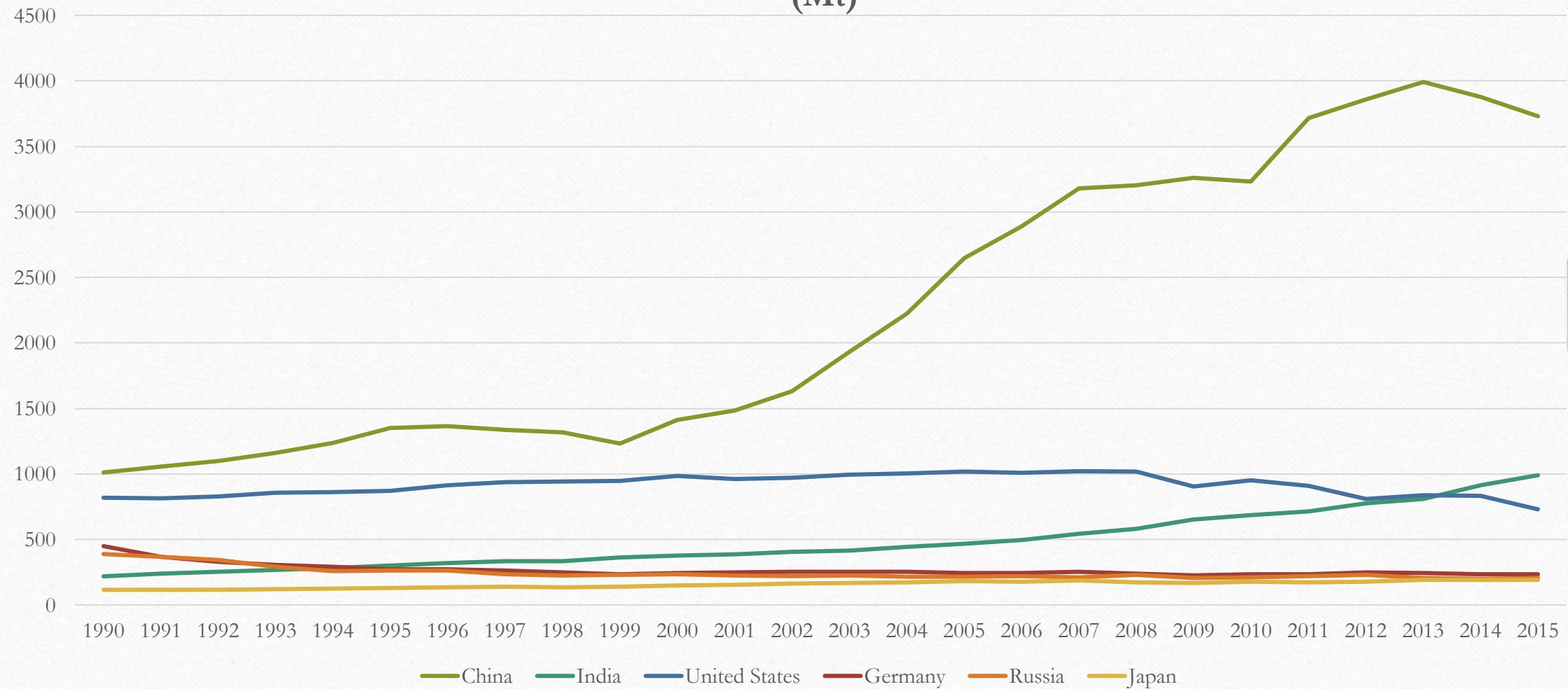
Change in Electricity Fuel Mix



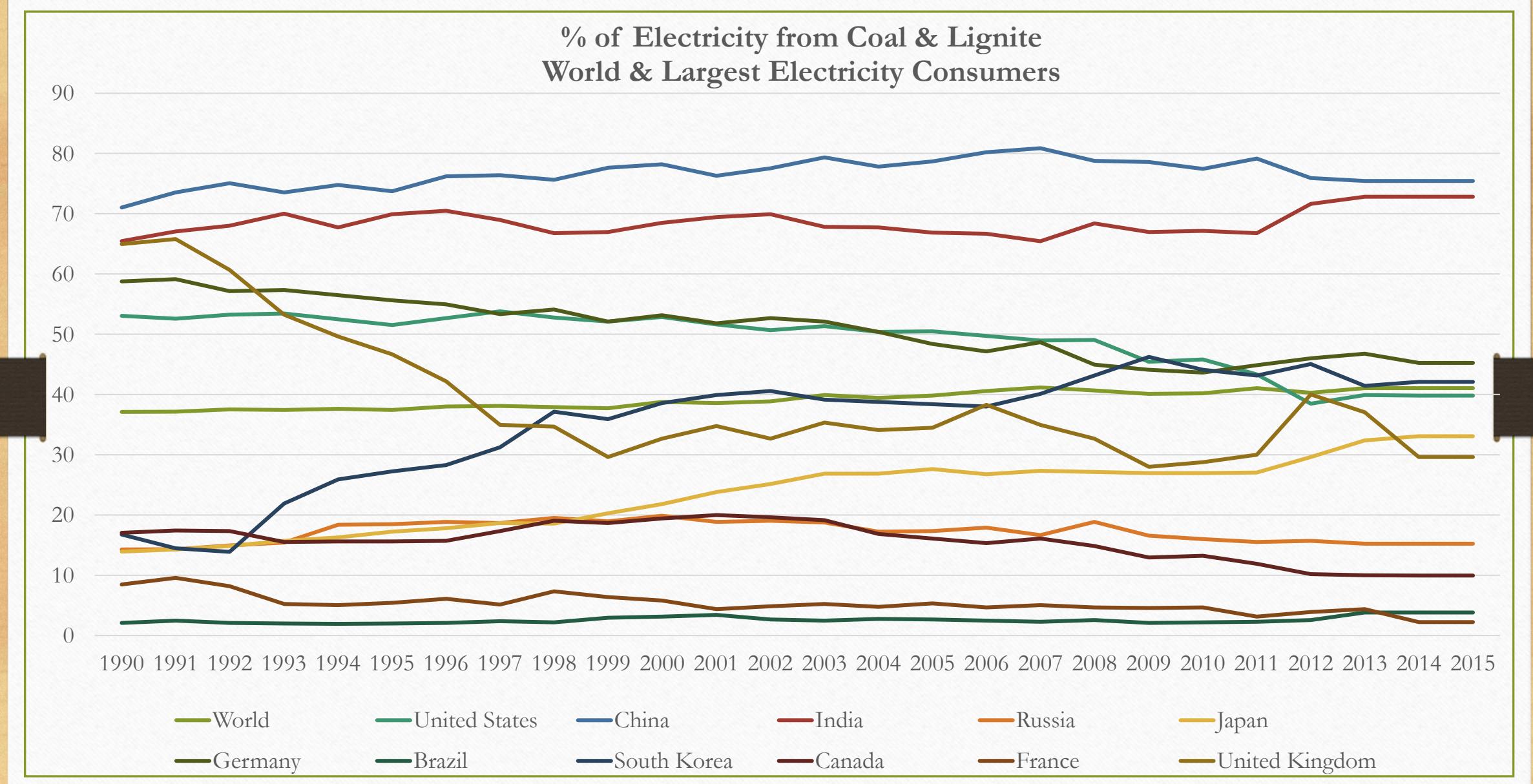
Coal & Lignite Consumption (Mt)



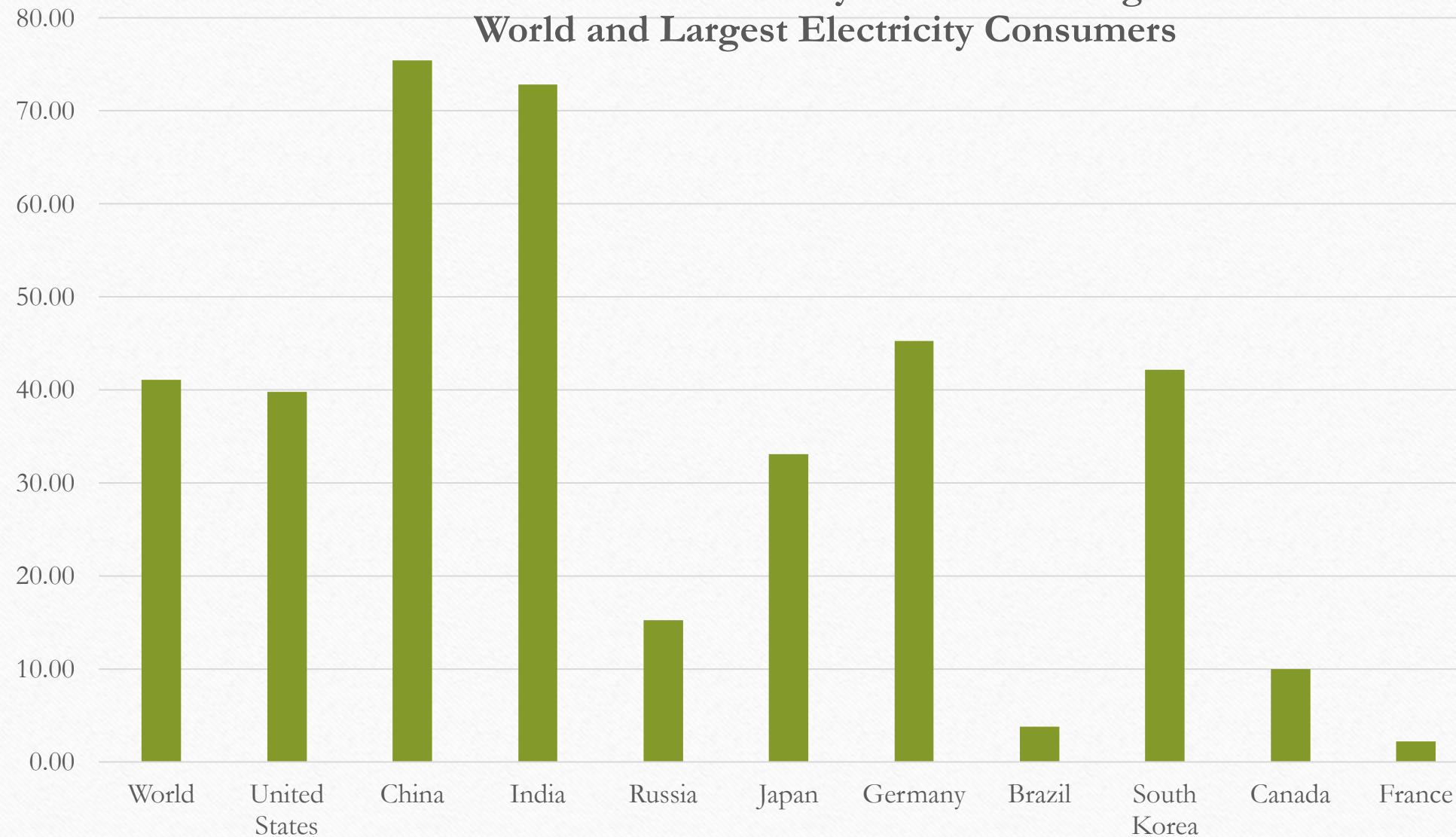
Coal & Lignite Consumption Top Six Electricity Consumers (Mt)



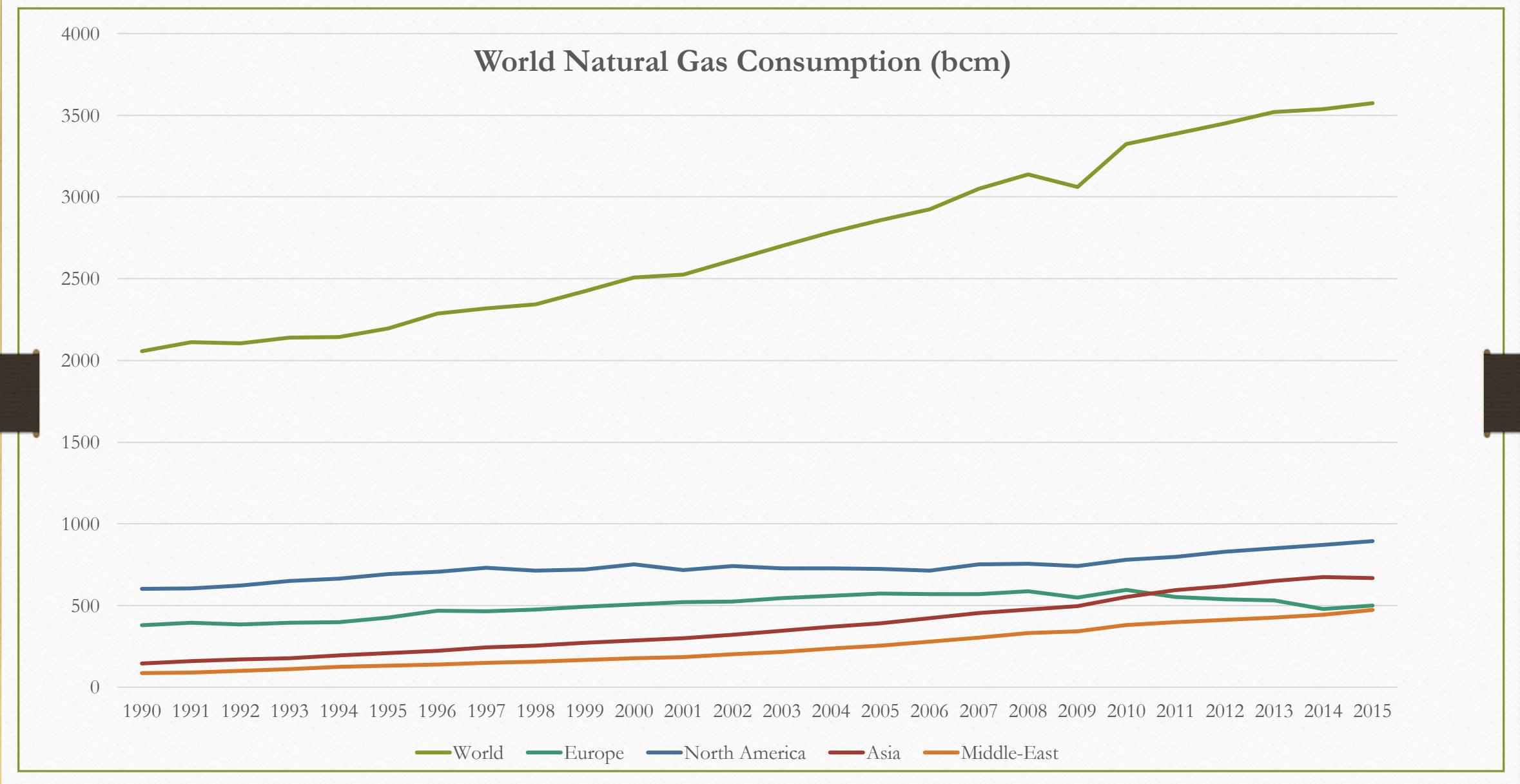
% of Electricity from Coal & Lignite World & Largest Electricity Consumers



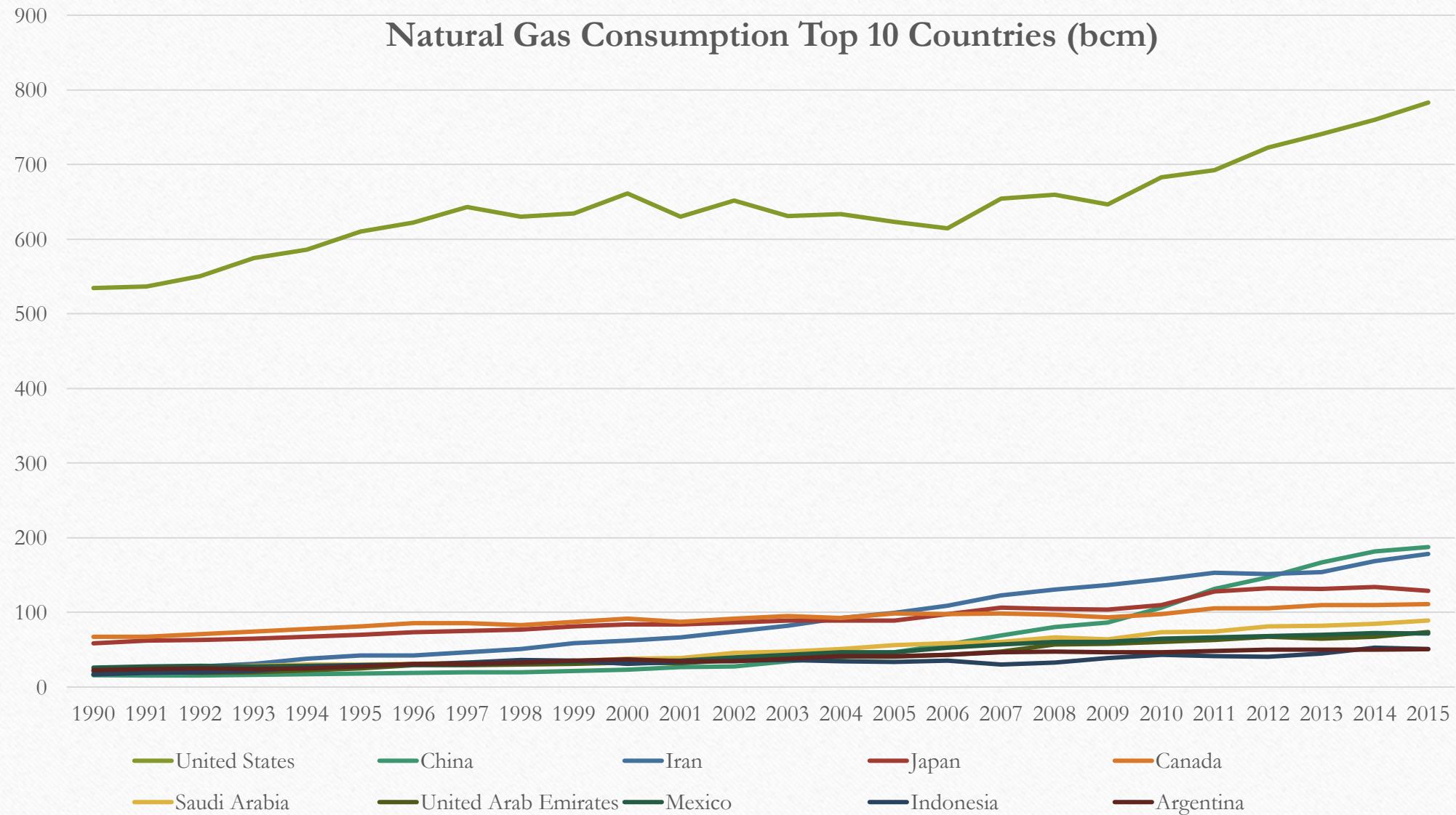
Current % of Electricity from Coal & Lignite World and Largest Electricity Consumers



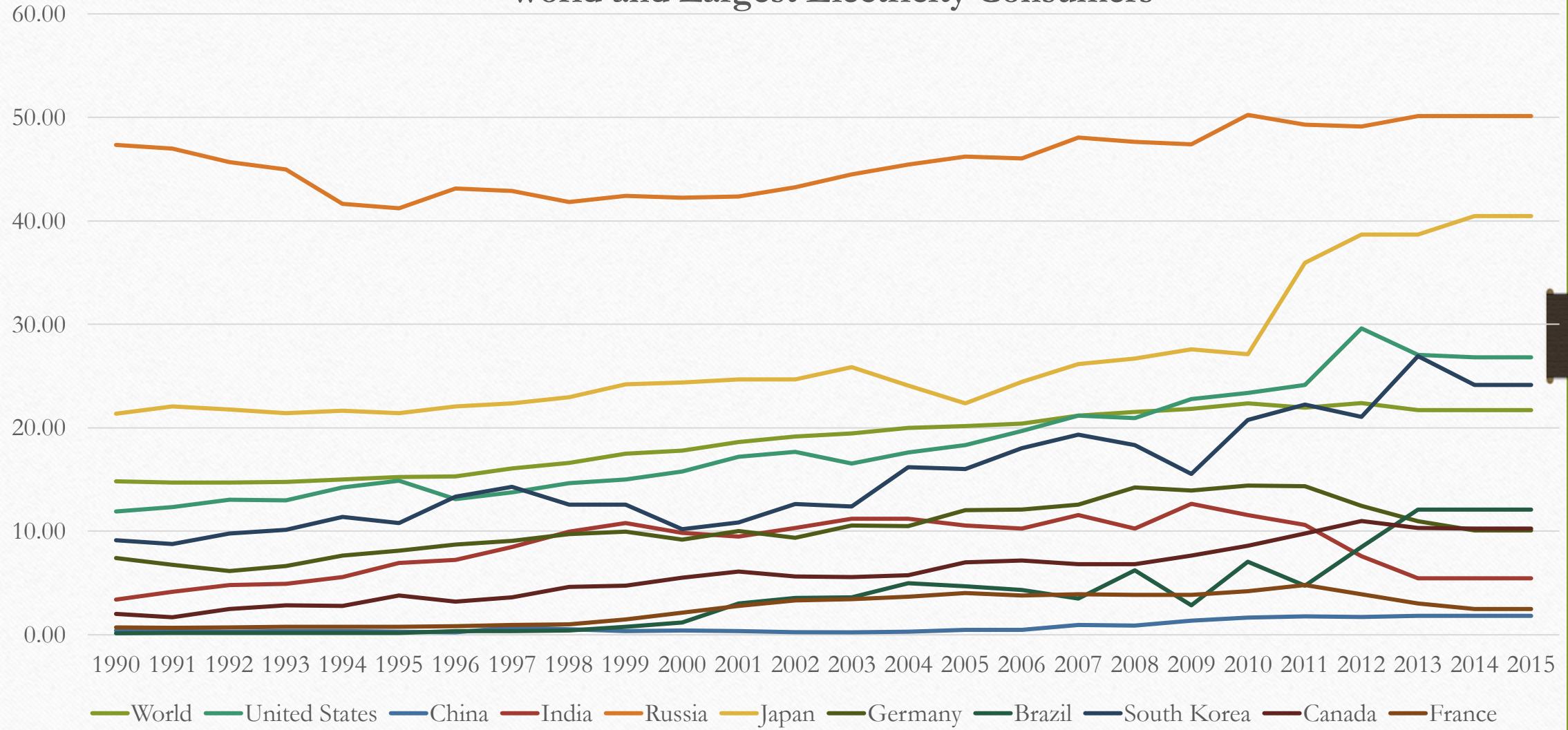
World Natural Gas Consumption (bcm)



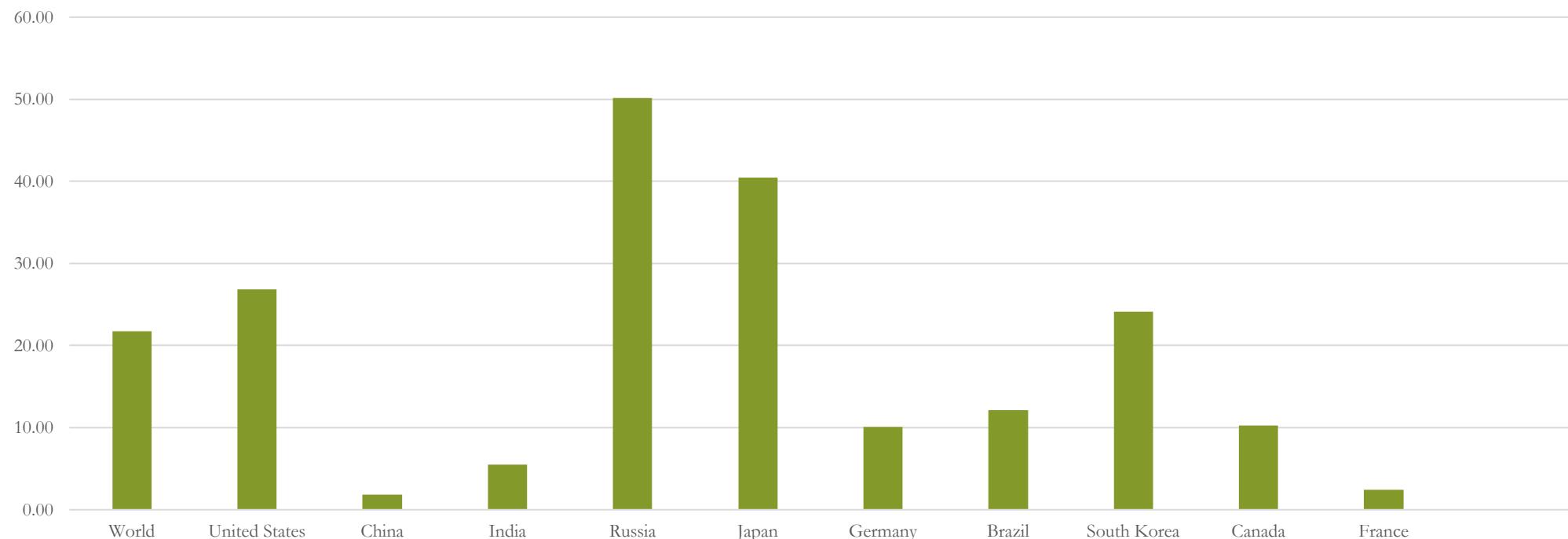
Natural Gas Consumption Top 10 Countries (bcm)



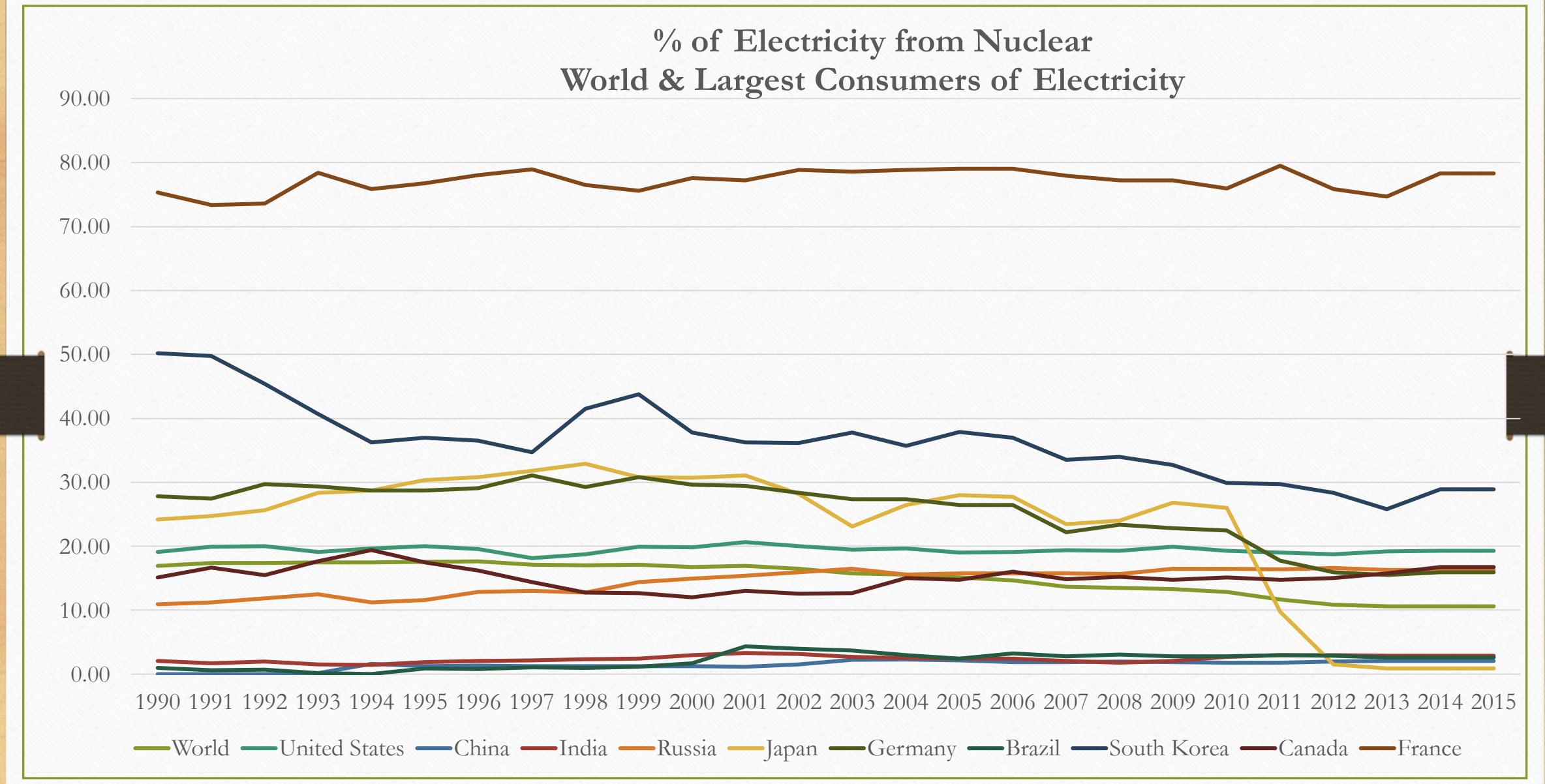
% of Electricity from Natural Gas World and Largest Electricity Consumers



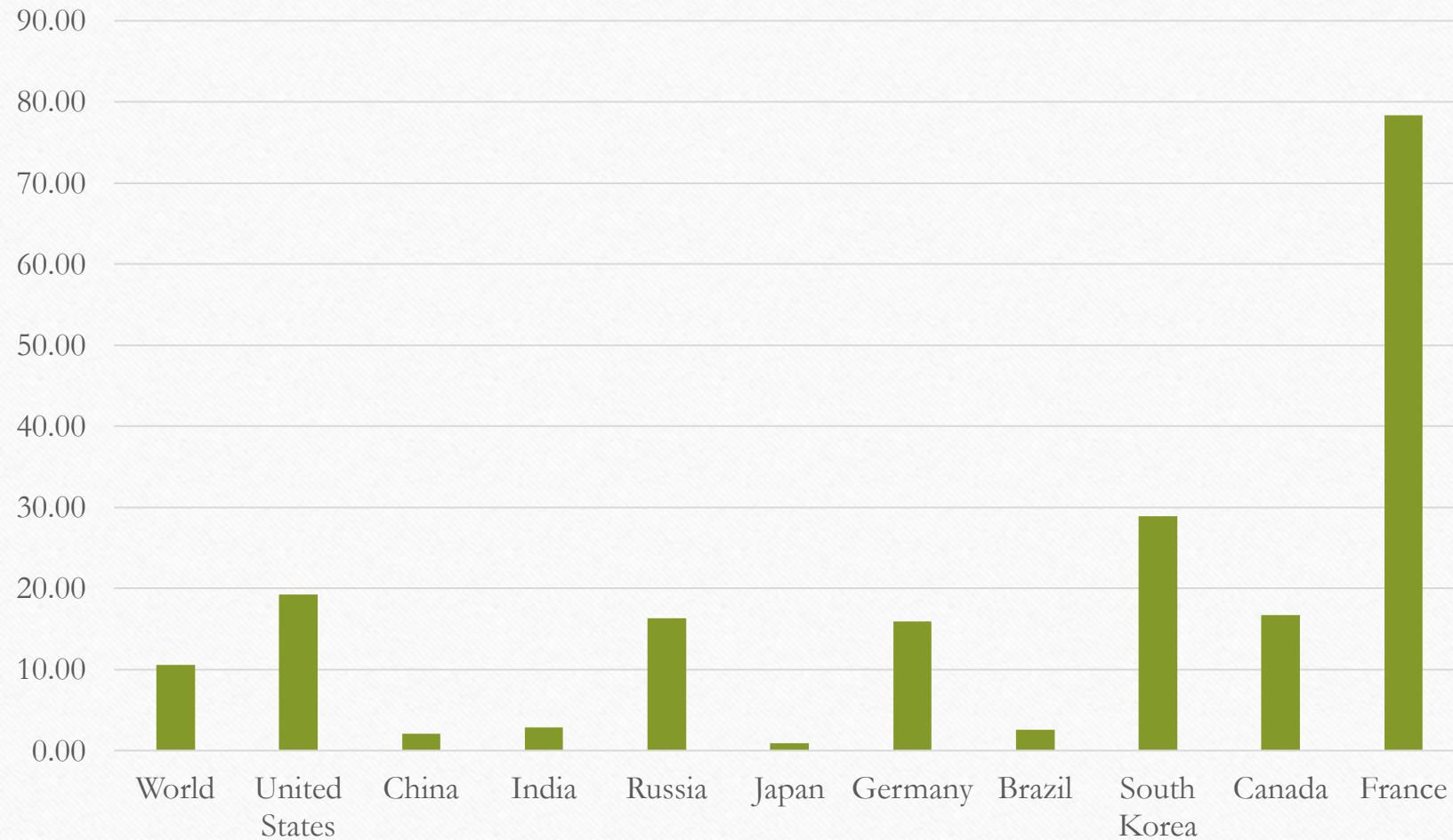
Current % of Electricity from Natural Gas World and Top Electricity Consumers



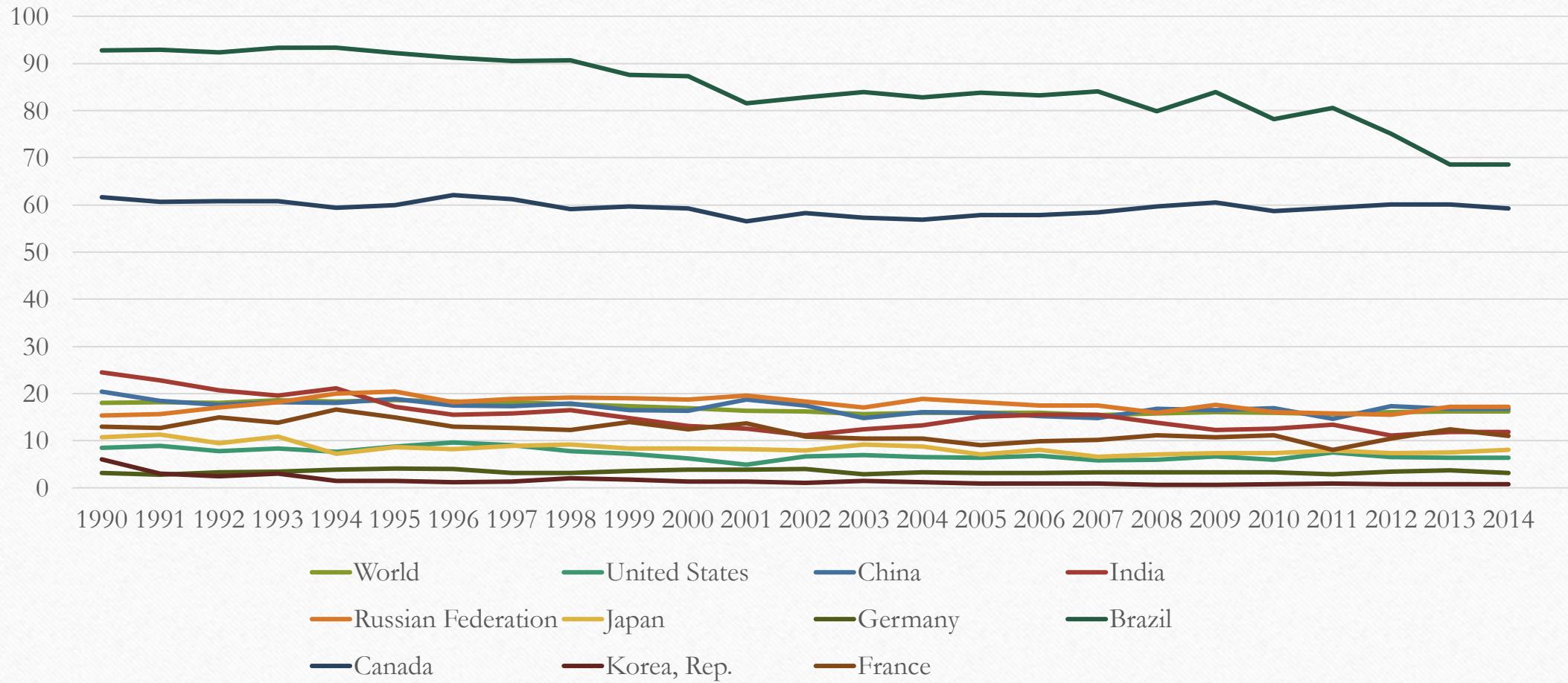
% of Electricity from Nuclear World & Largest Consumers of Electricity



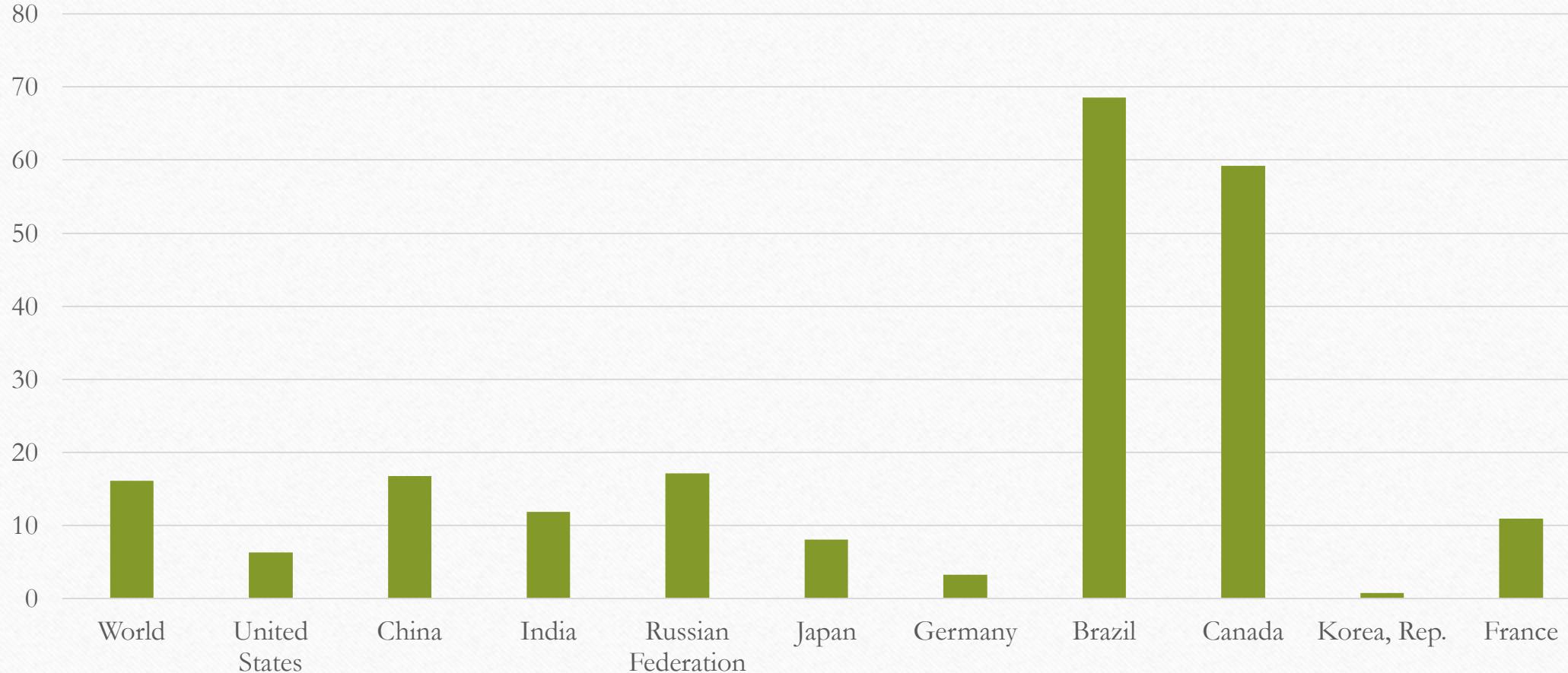
Current % of Electricity from Nuclear World and Largest Consumers of Electricity



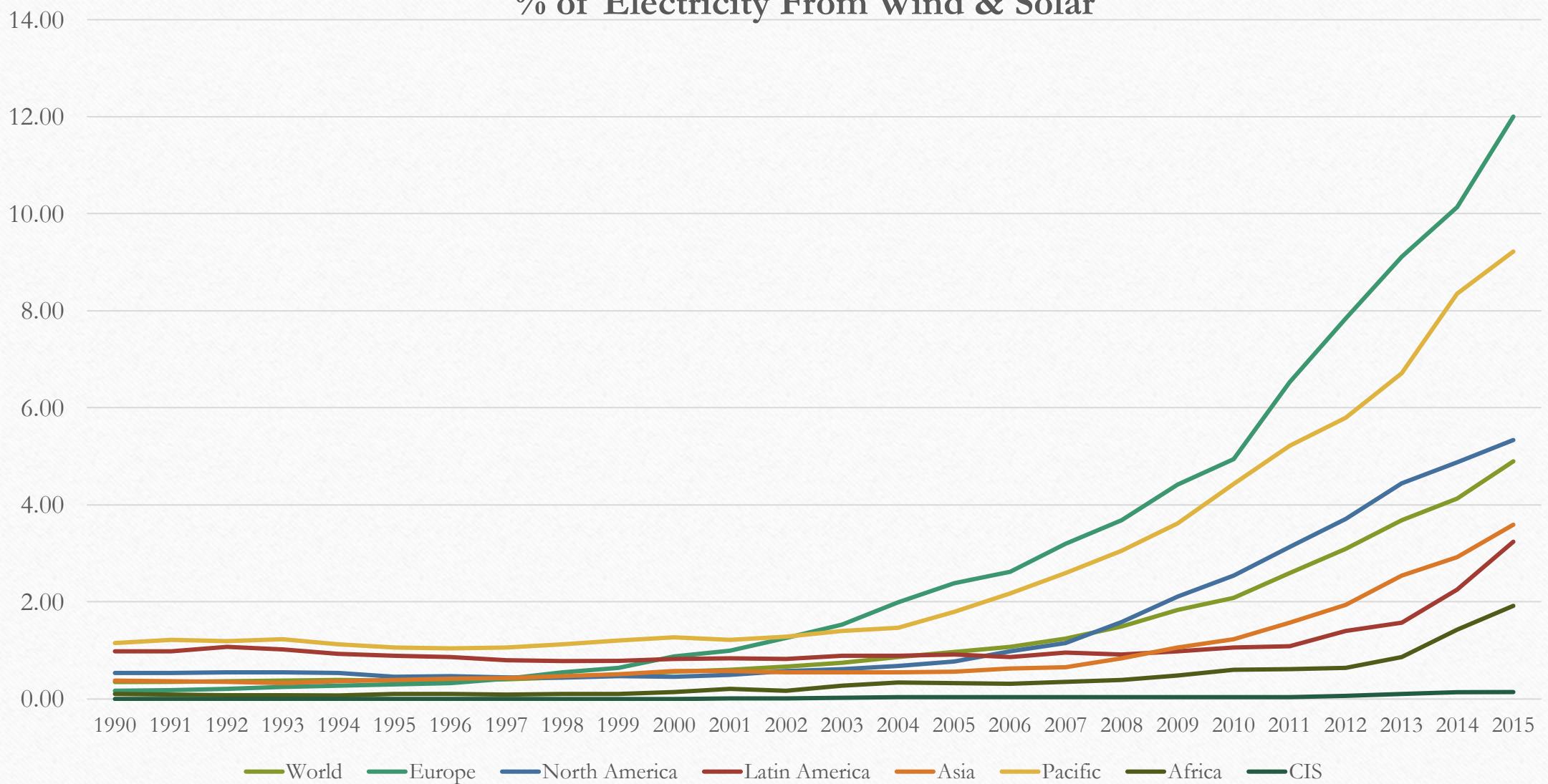
% of Electricity from Hydro World & 10 Largest Consumers of Electricity



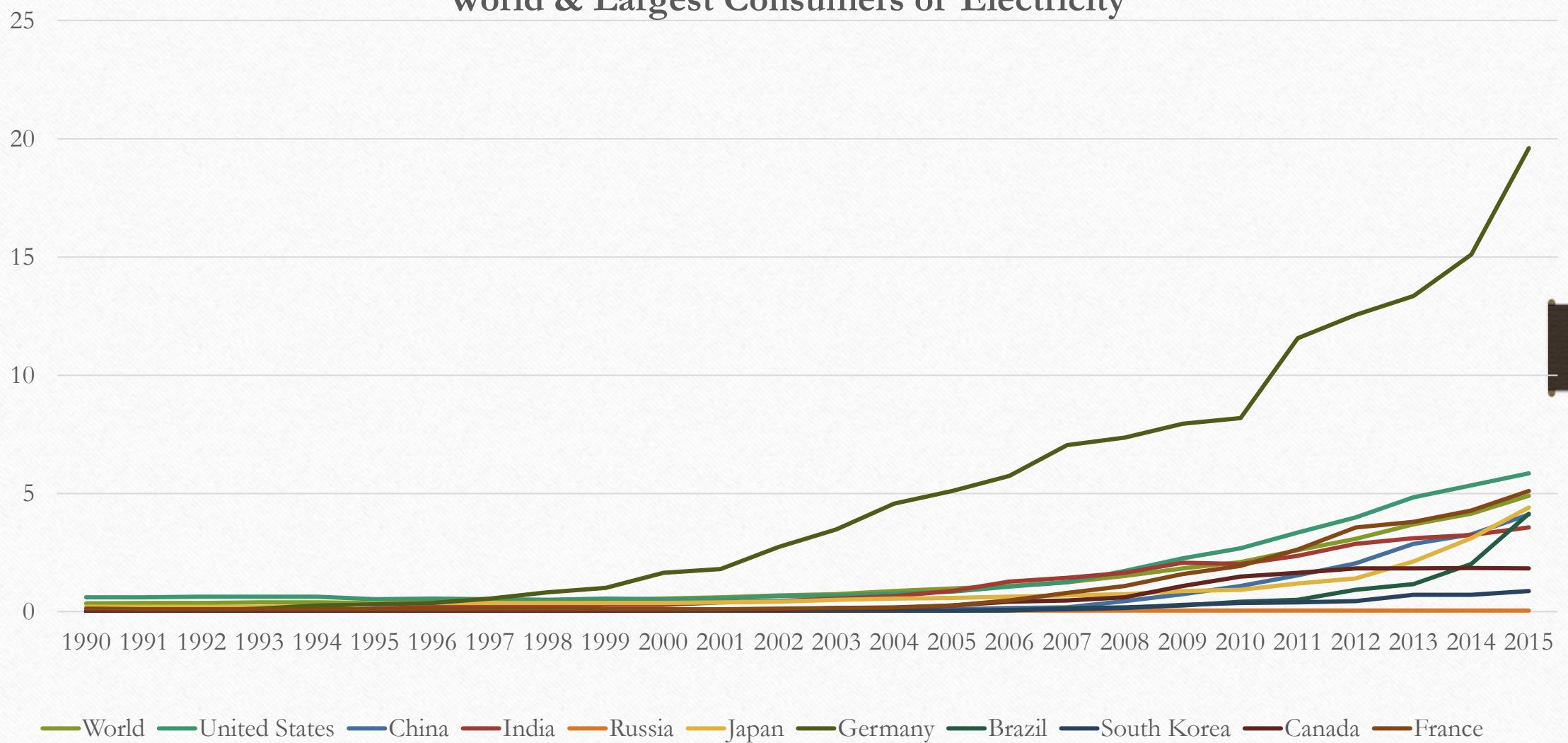
Current % Electricity from Hydro World and Top 10 Electricity Consumers



% of Electricity From Wind & Solar



% of Electricity from Wind & Solar World & Largest Consumers of Electricity





The End & Thank-you



All information in the foregoing slides was derived from information compiled by Sempra Energy, the US Government or the World Bank.