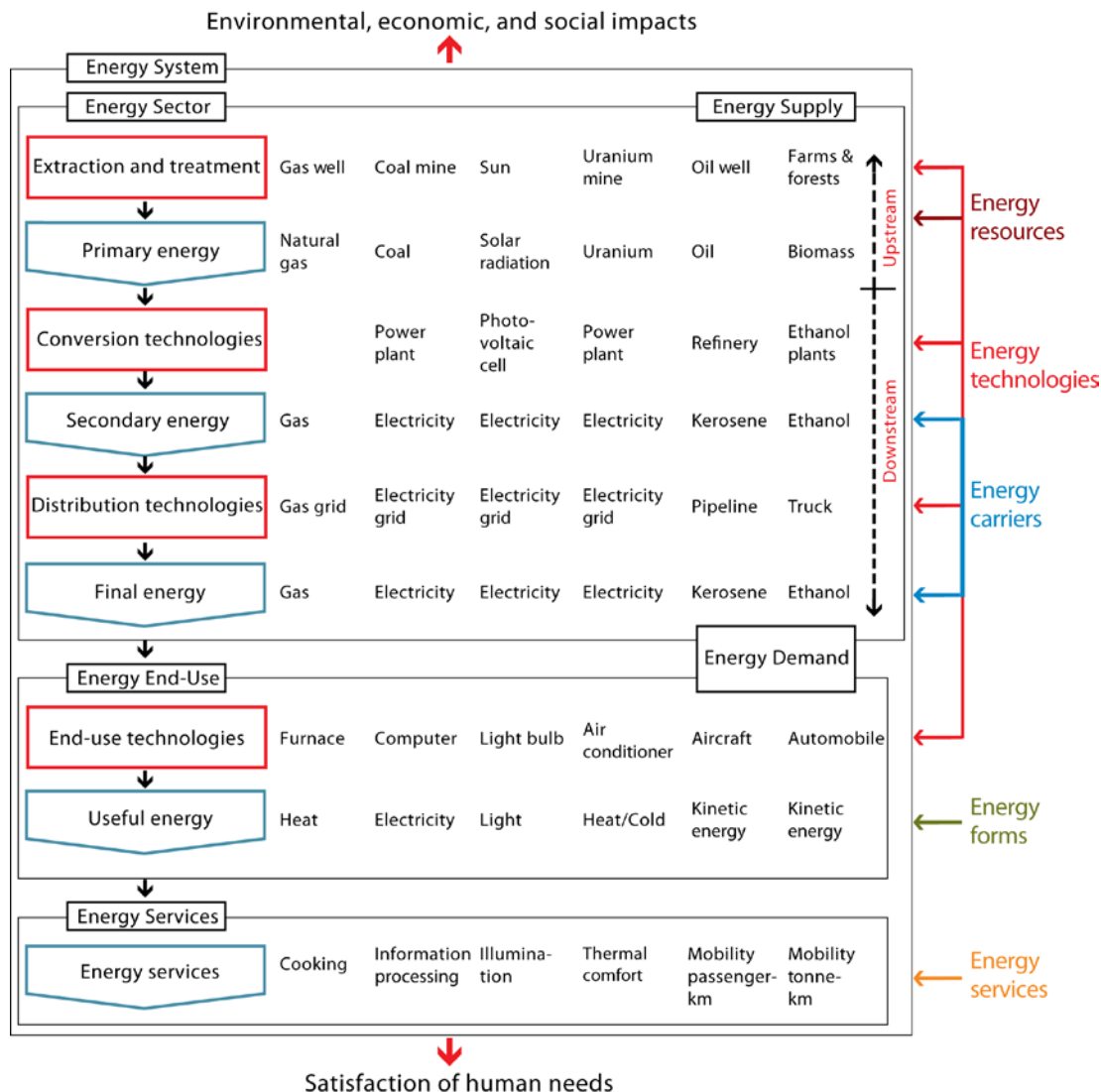
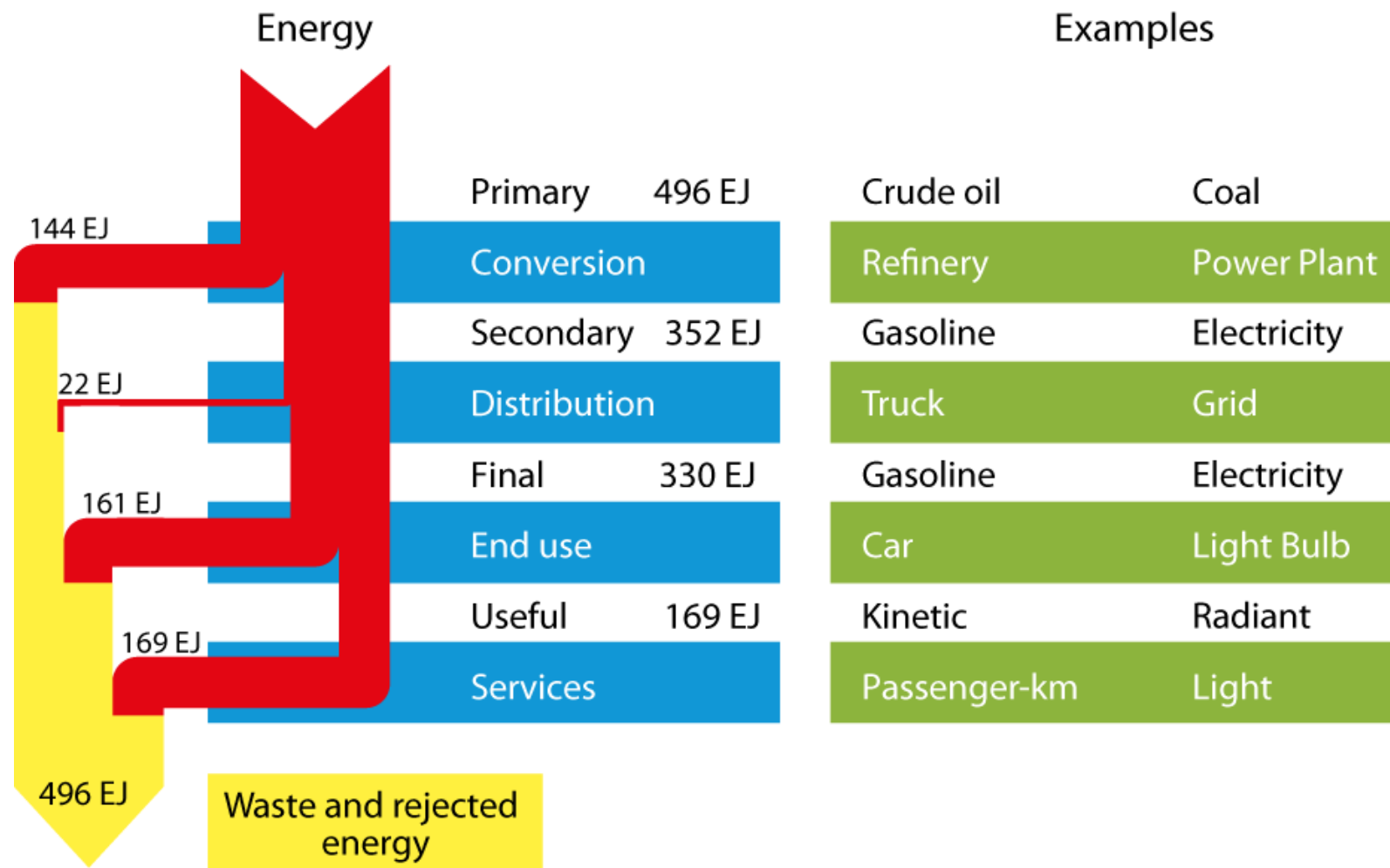


The Energy System

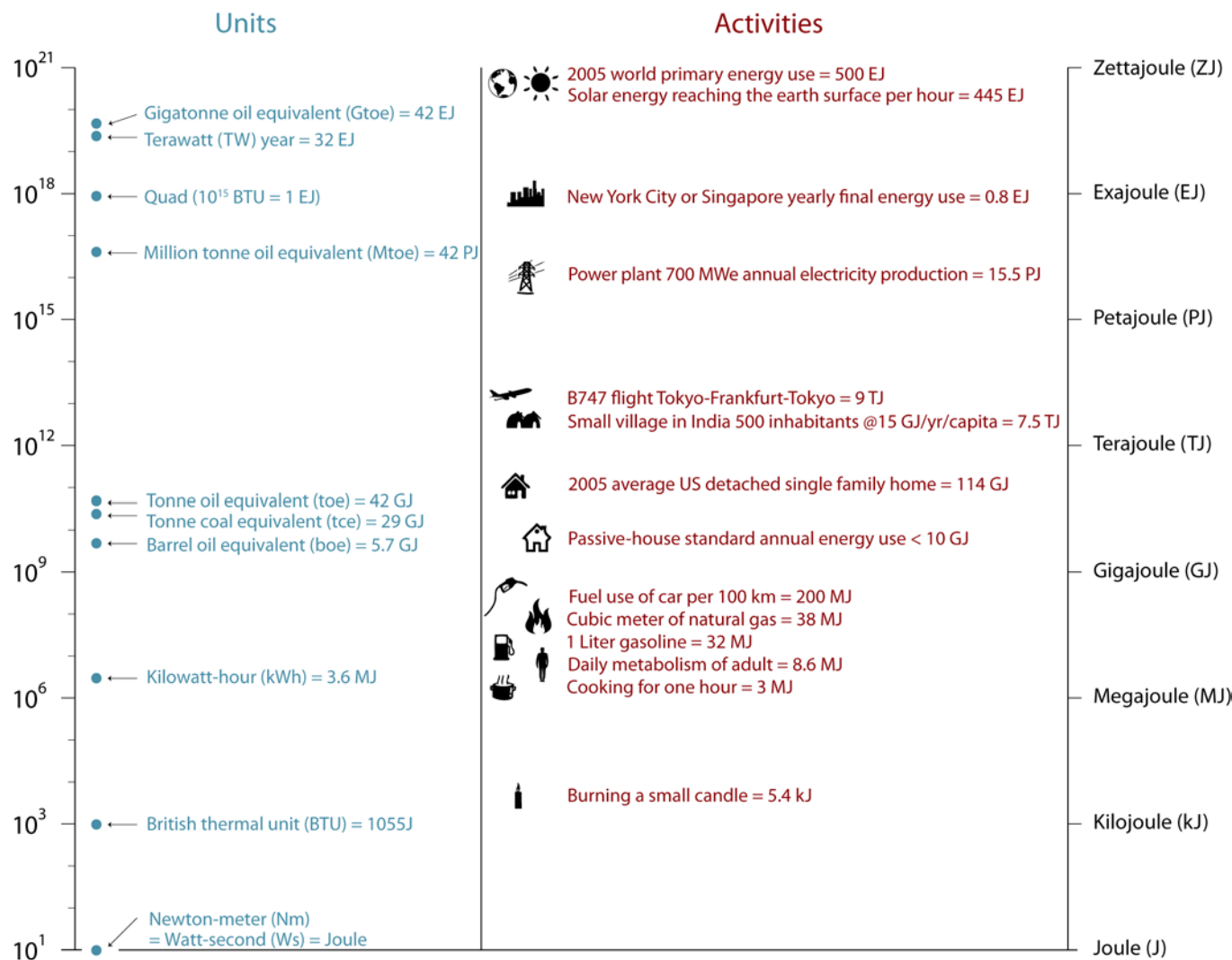


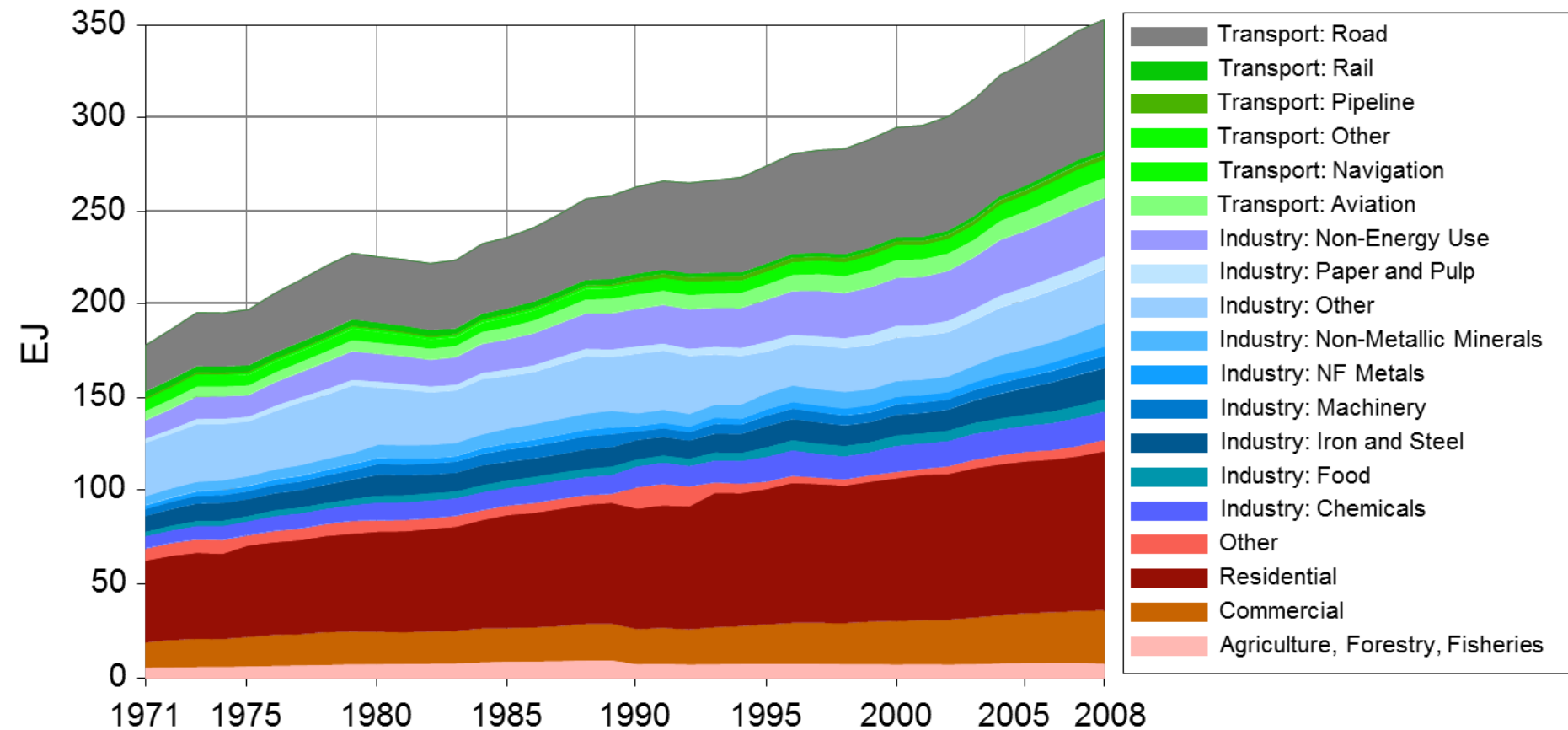
Global Energy Flows





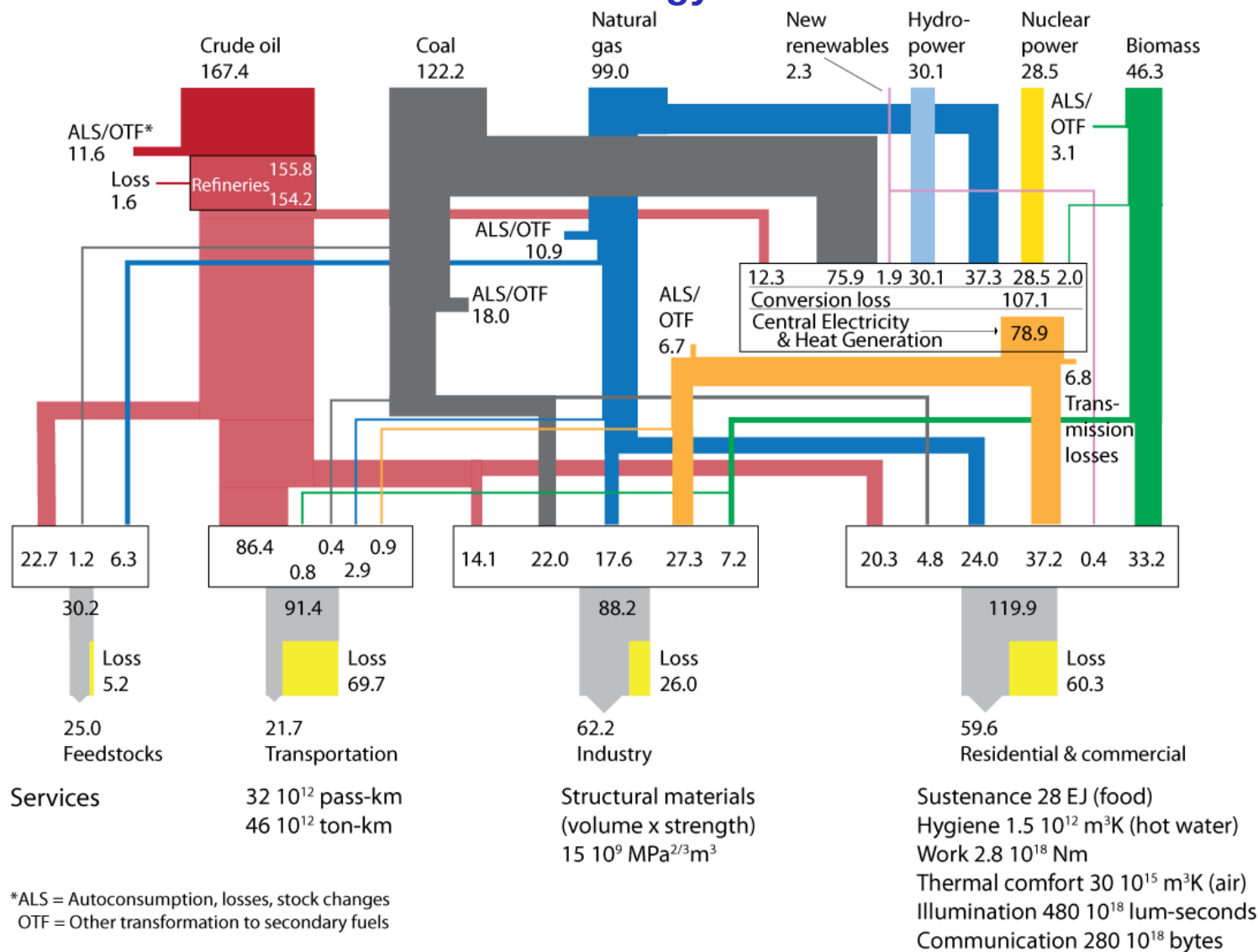
Energy Units and Scales



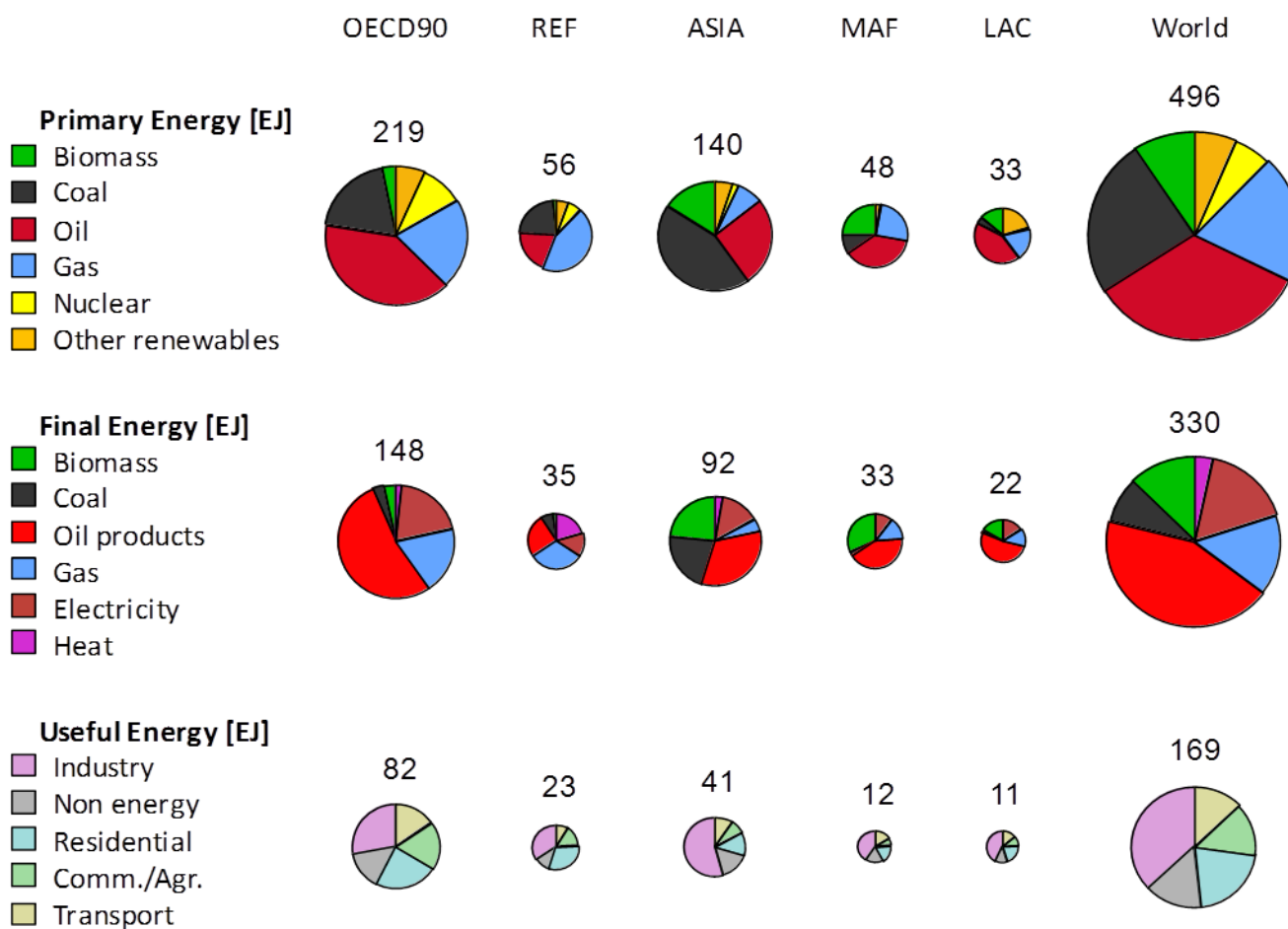




Global Energy Flows

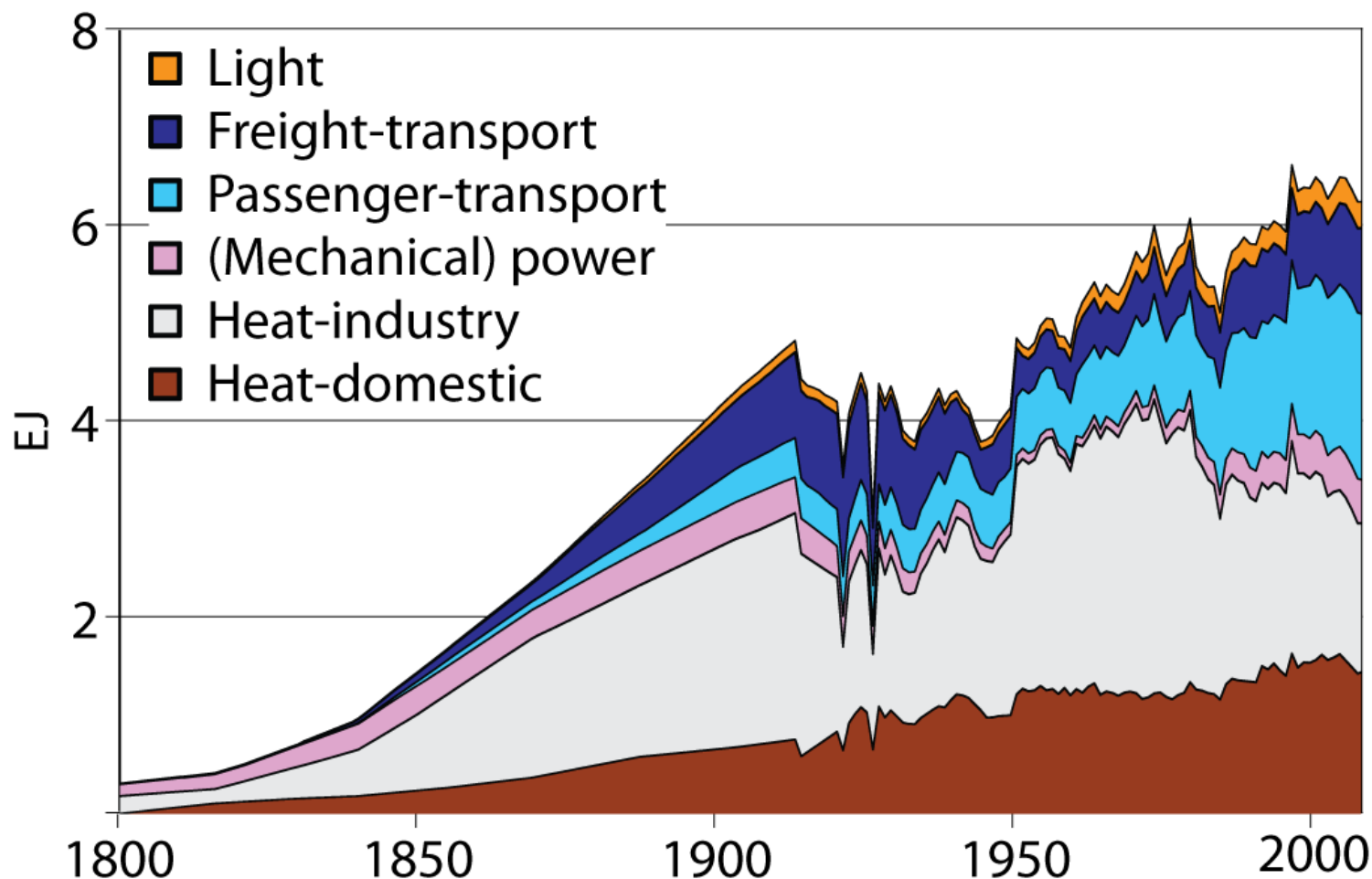


World Energy Use



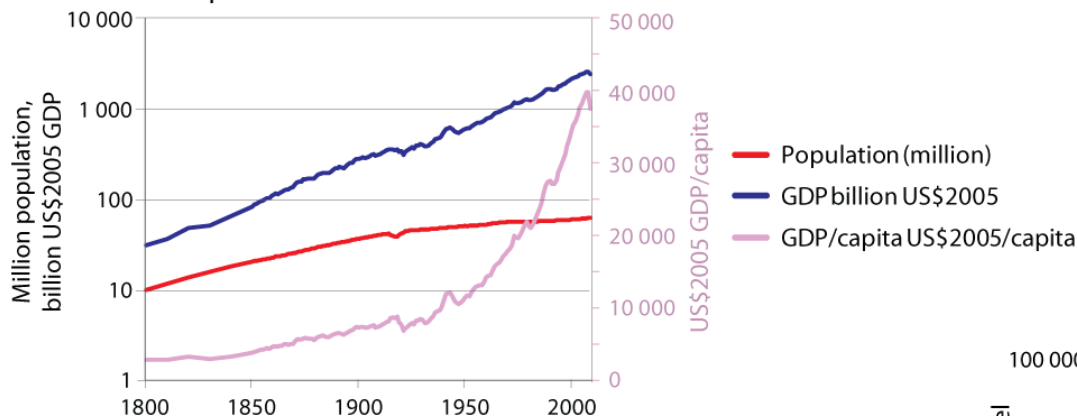


Growth in Energy Service Demand in the UK since 1880

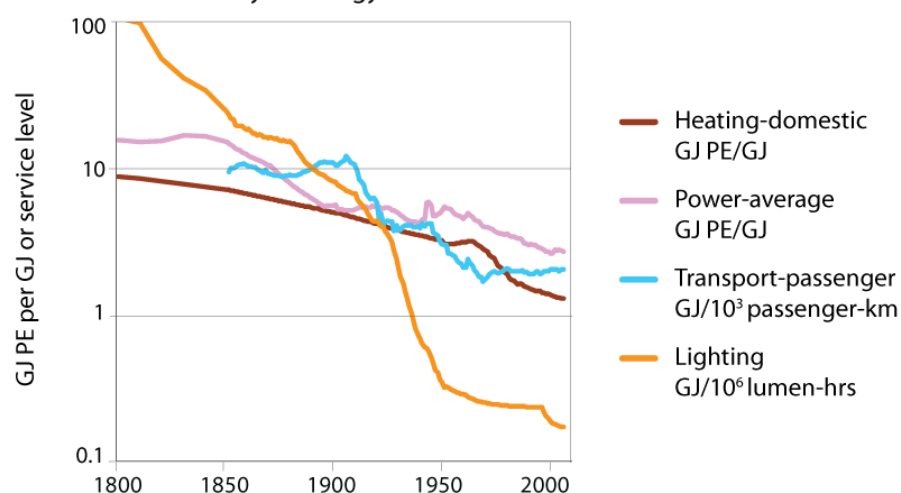


Drivers of UK Energy Service Demand Growth

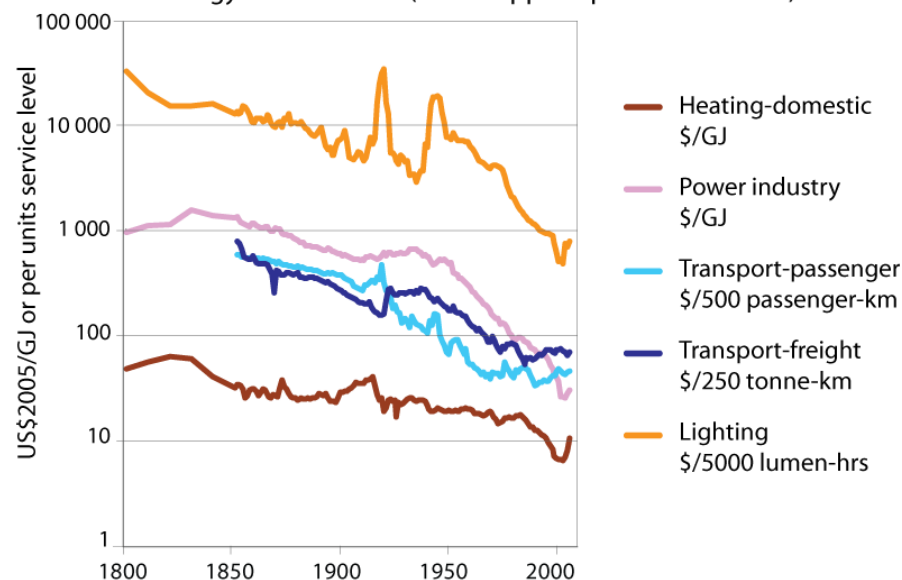
UK Population and GDP



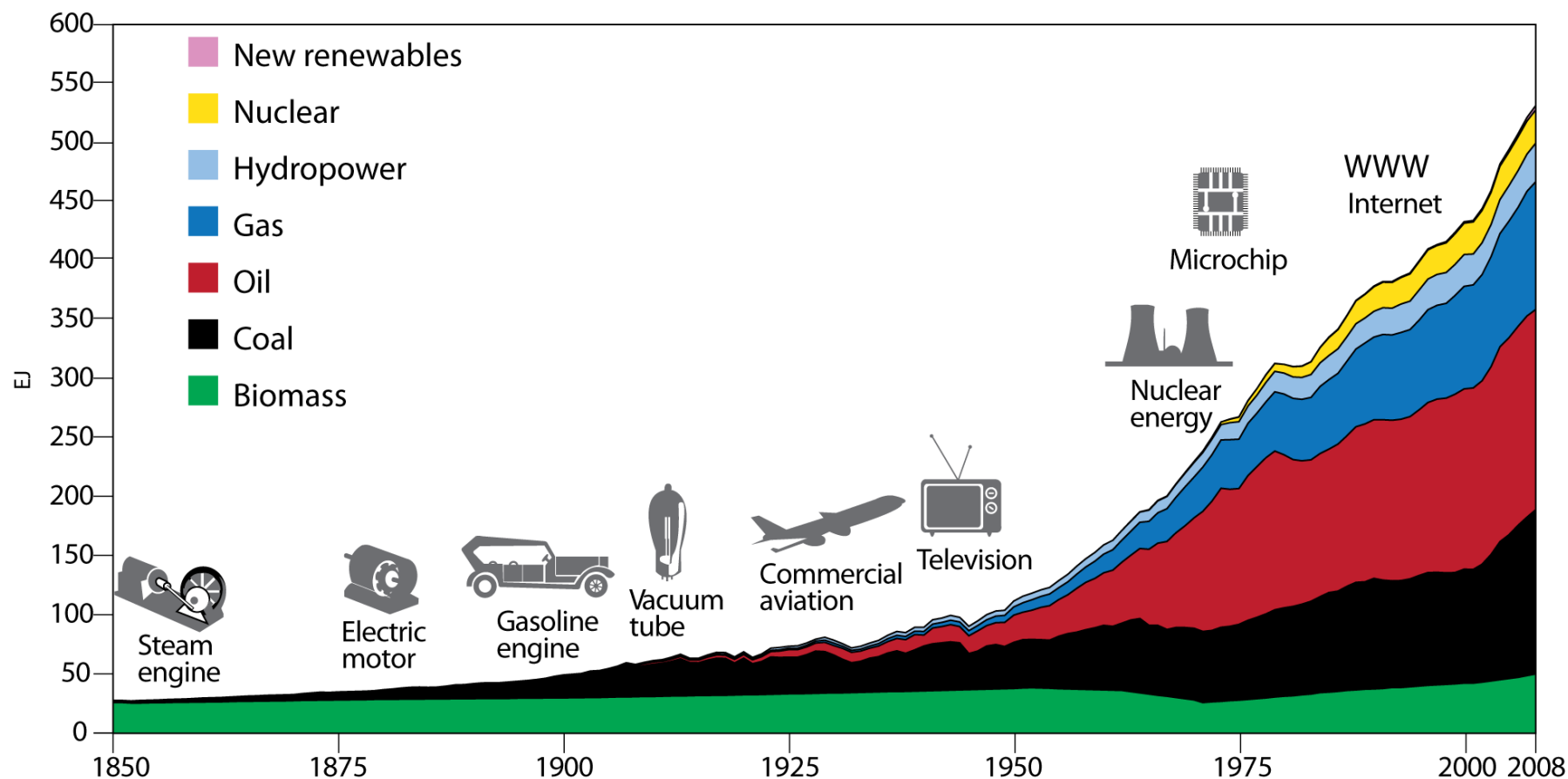
UK Efficiency of Energy Service Provision



UK Energy Service Prices (scaled approx. per current GJ FE)

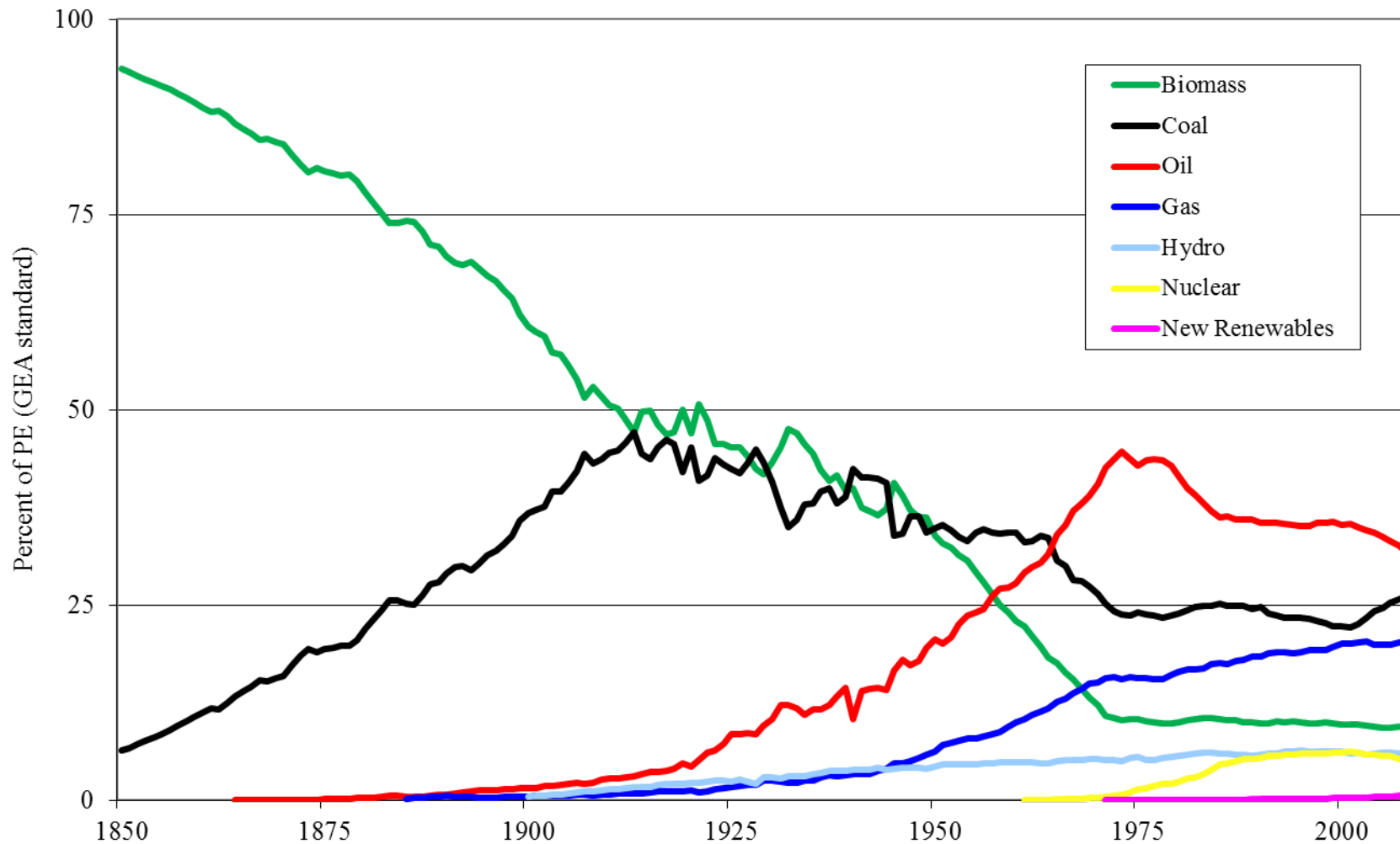


History of World Primary Energy Use



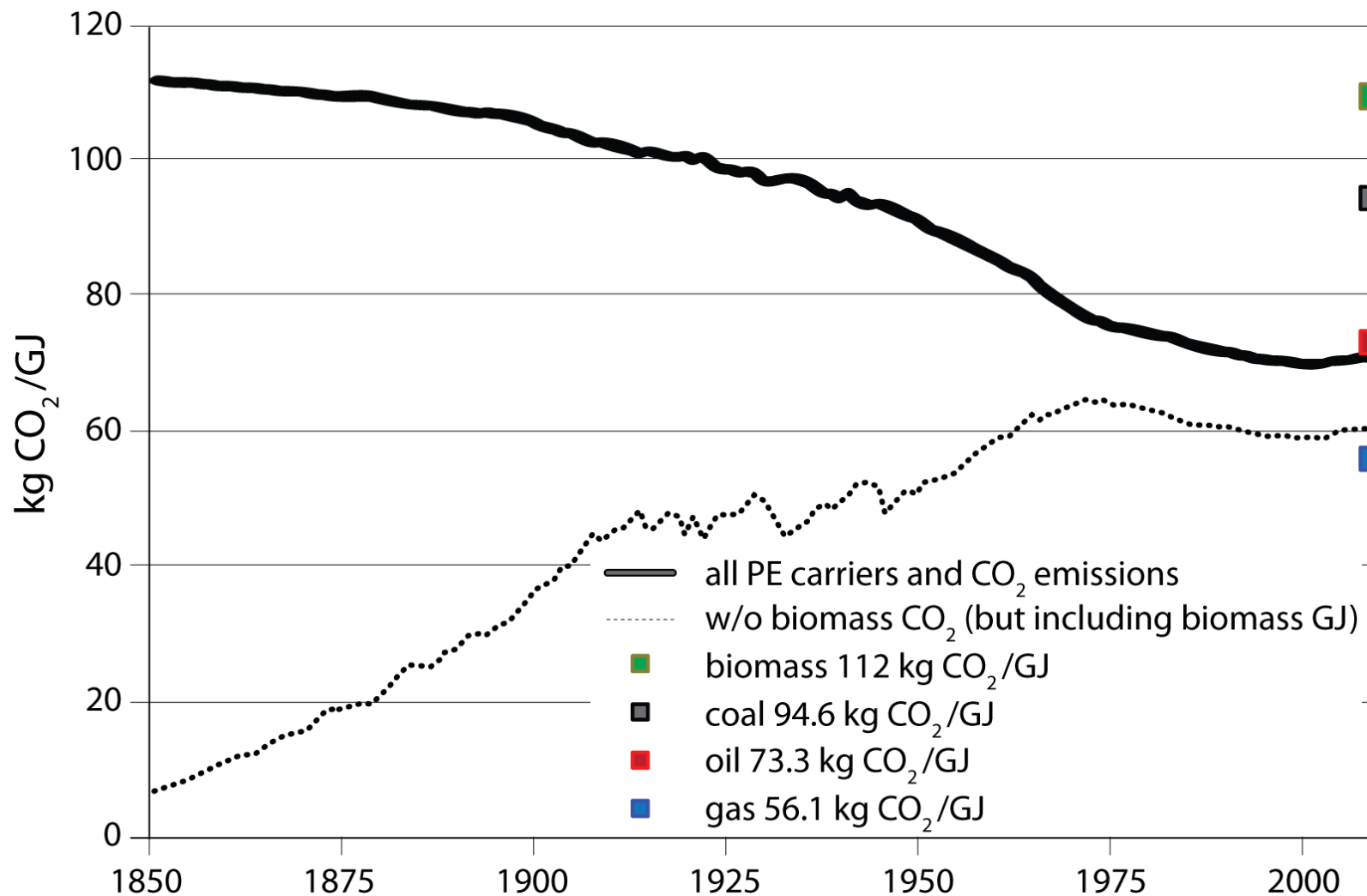


Structural Change in World Primary Energy



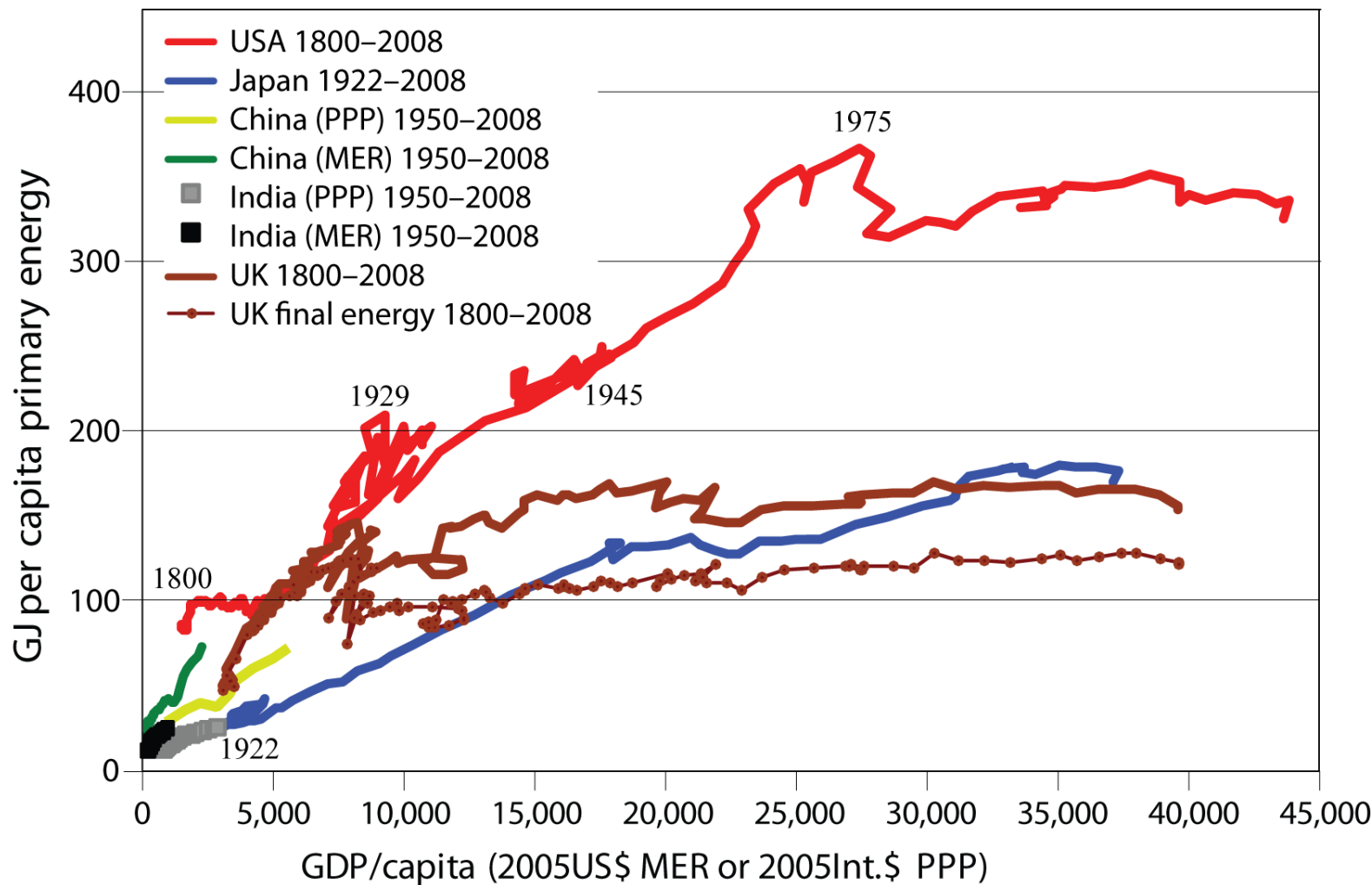


Decarbonization of Global Primary Energy since 1850



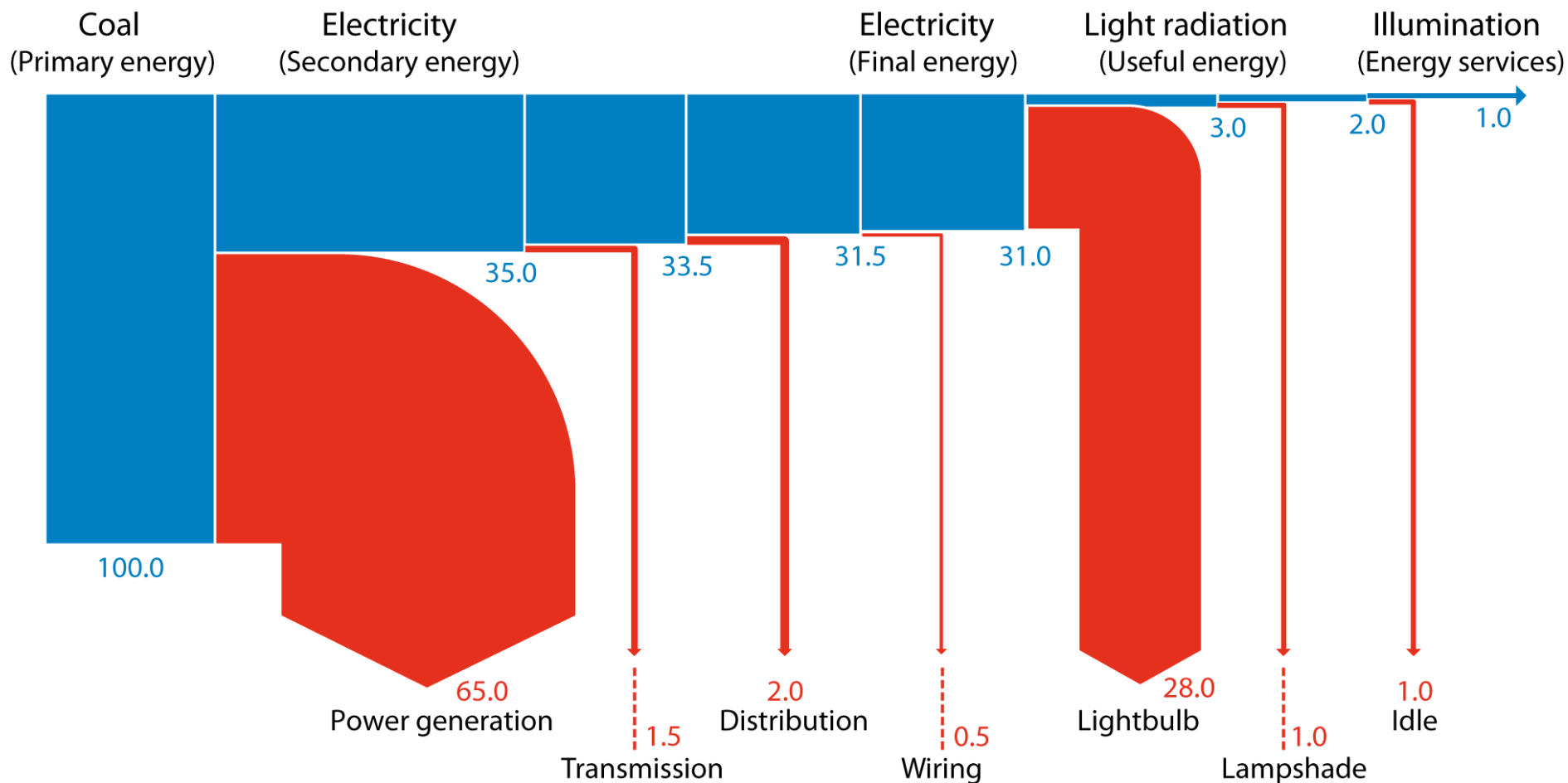


Primary Energy Use versus GDP per Capita



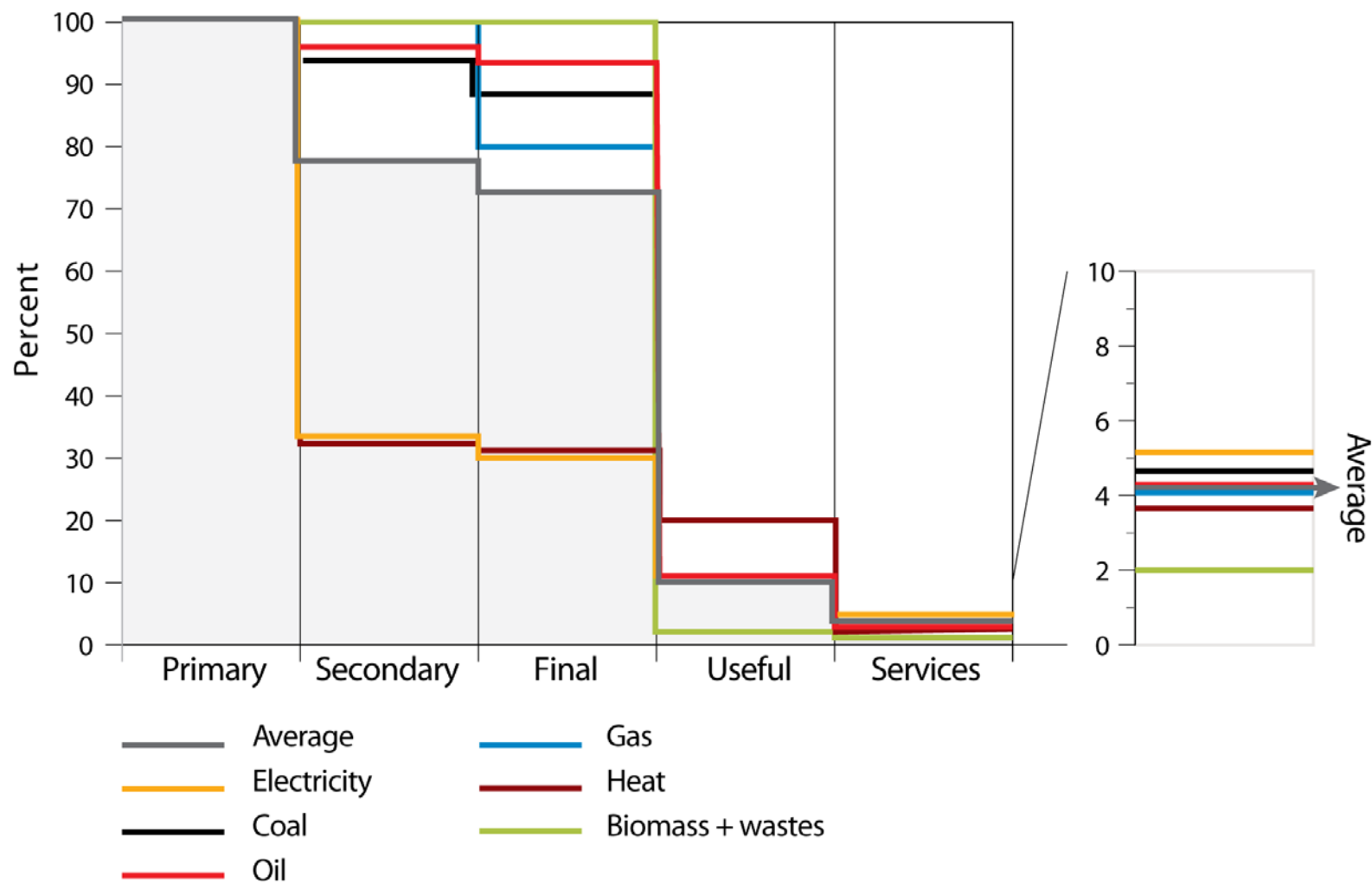


First-Law Efficiency of an Energy Chain

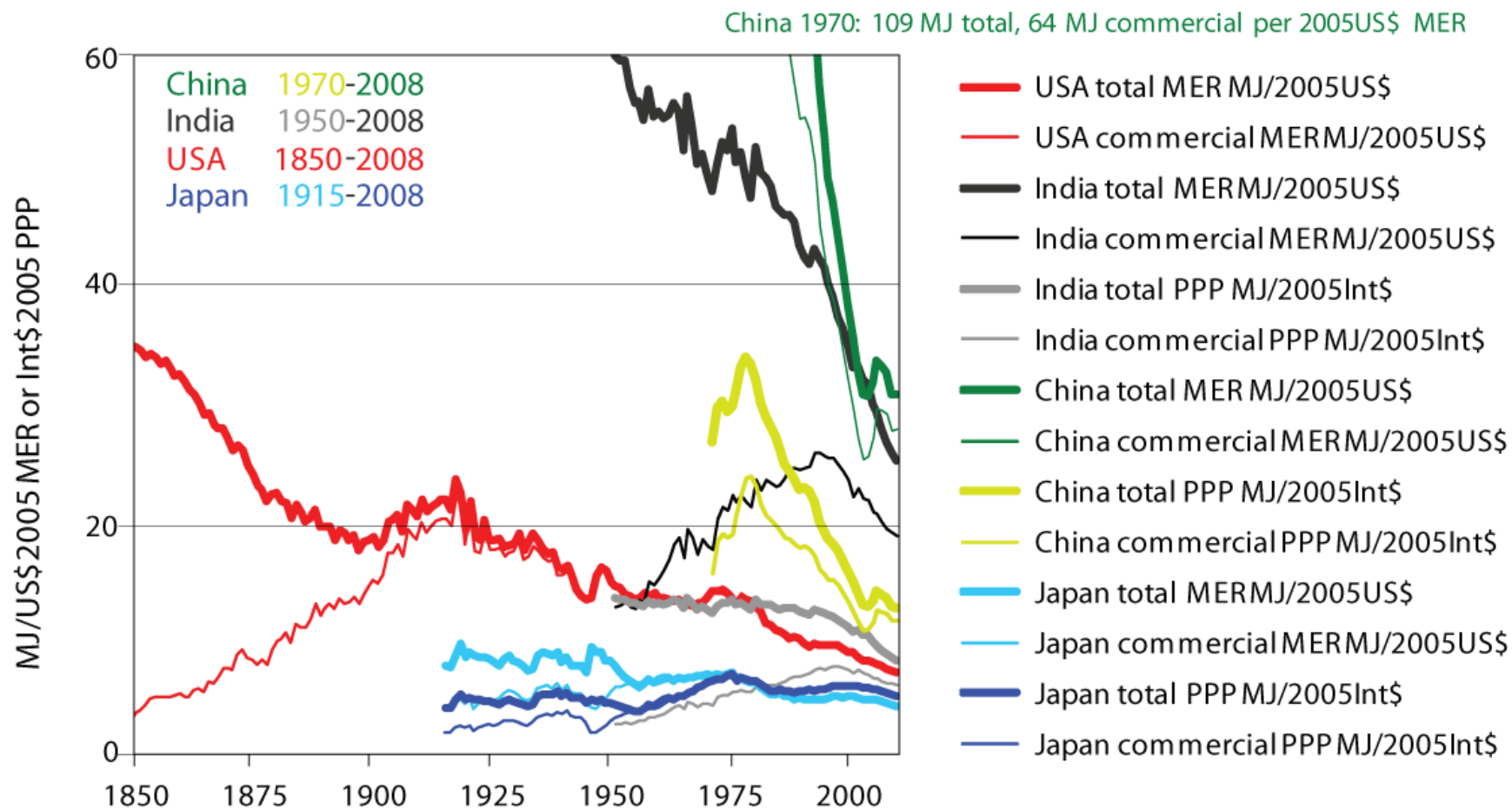




Estimated Exergy Efficiencies by Energy Carrier

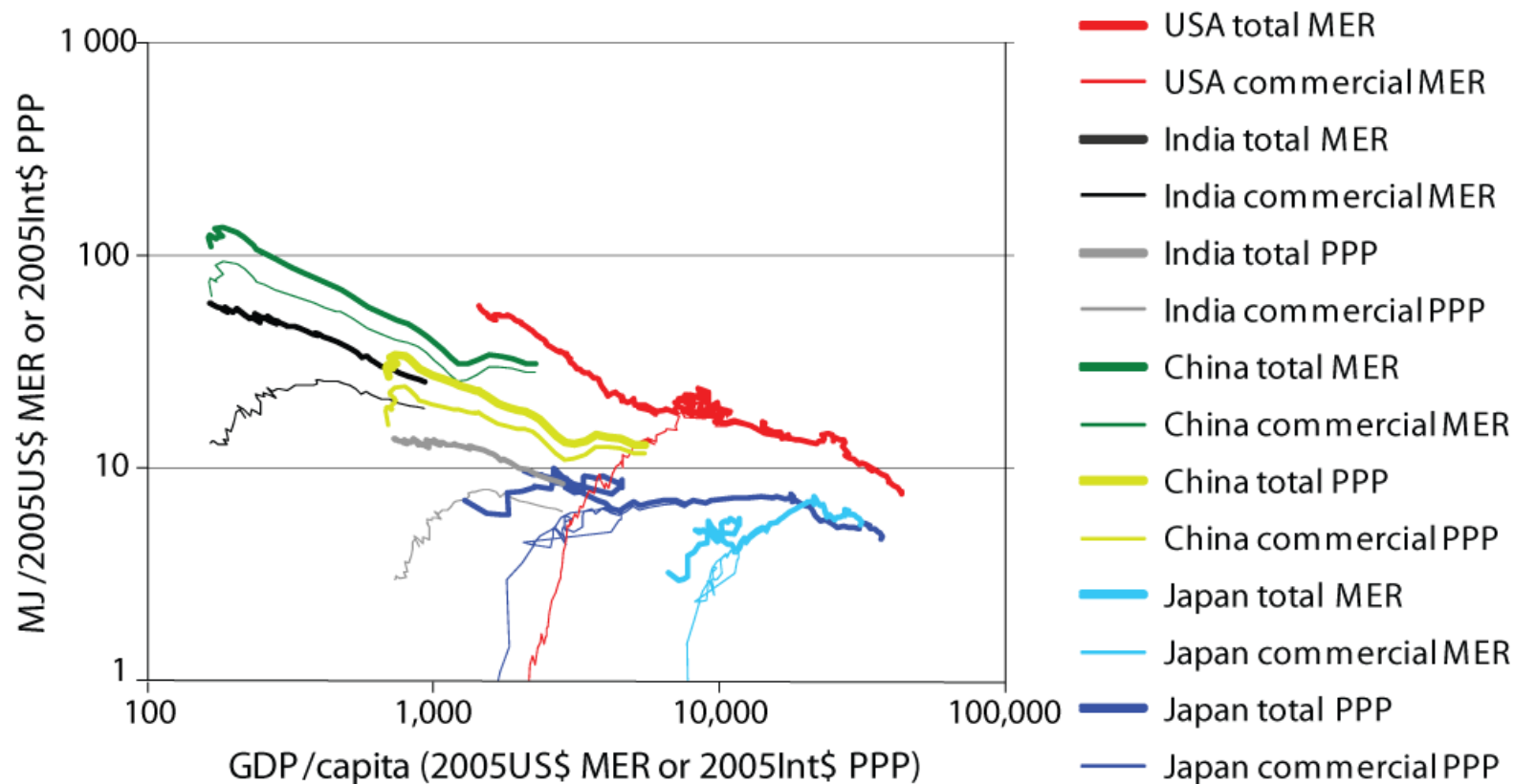


Energy Intensity Improvements over Time



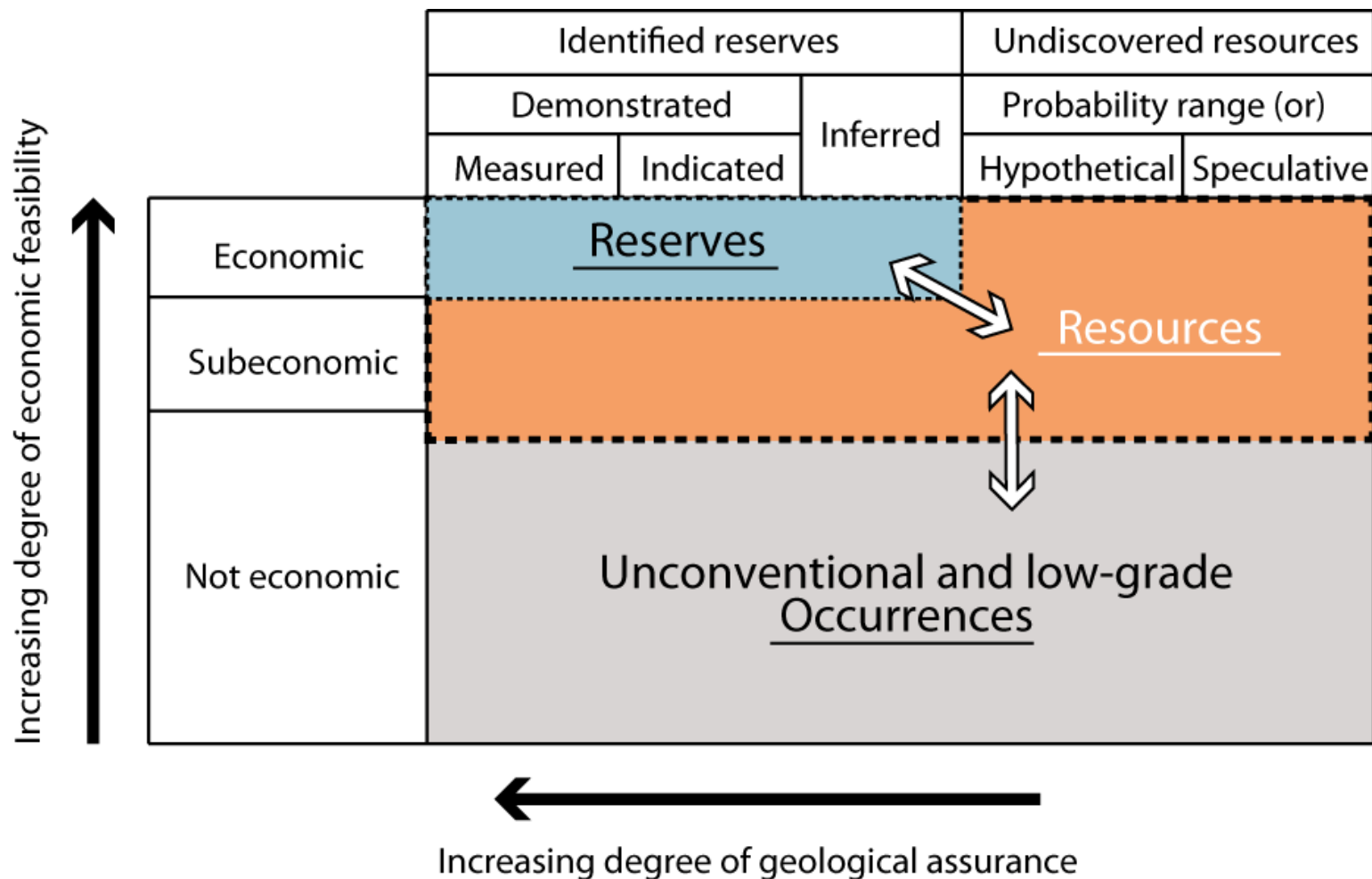


Energy Intensity Improvements Against Per Capita Income



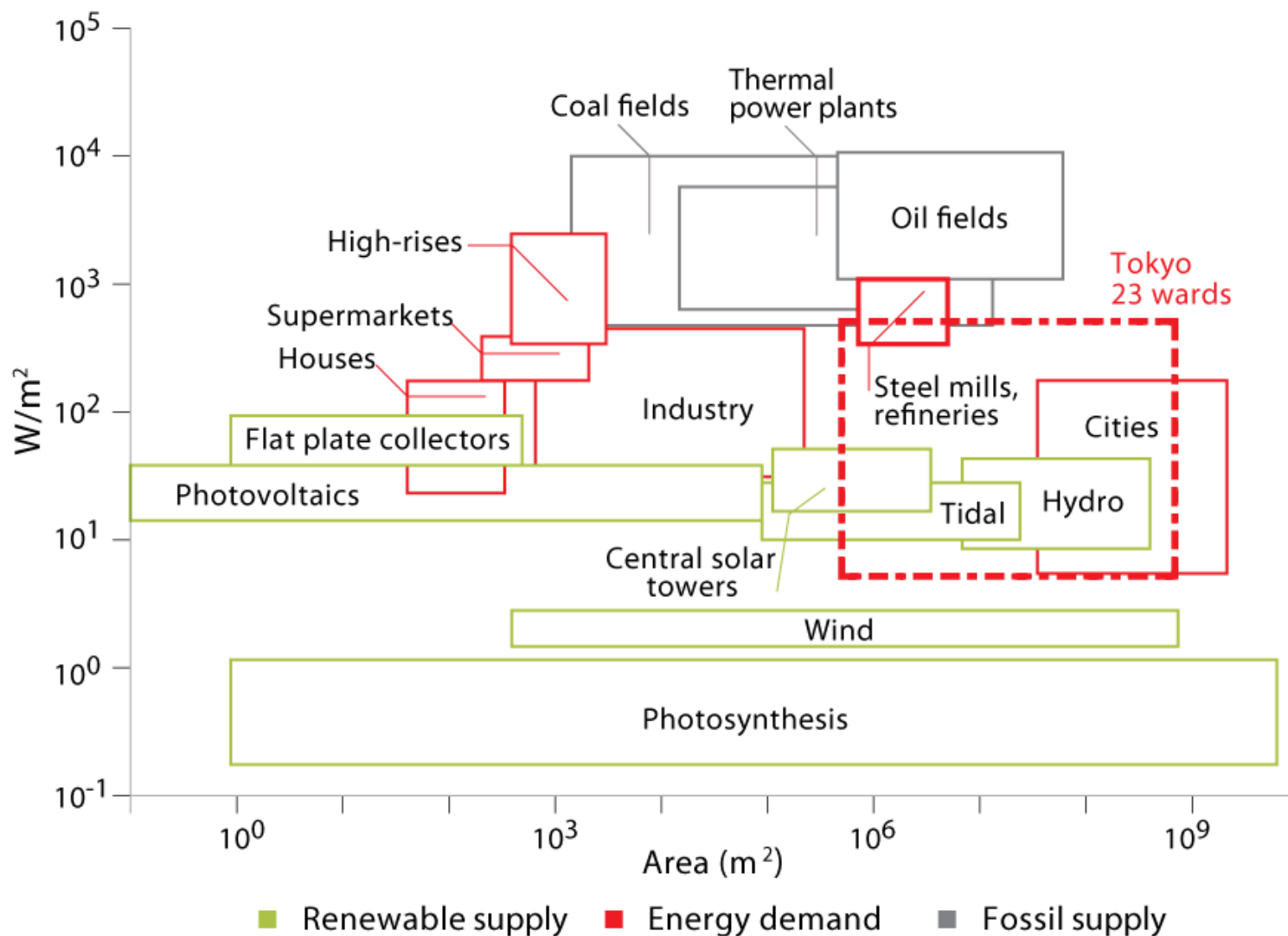


Principles of Resource Classification: Reserves, Resources and Occurrences

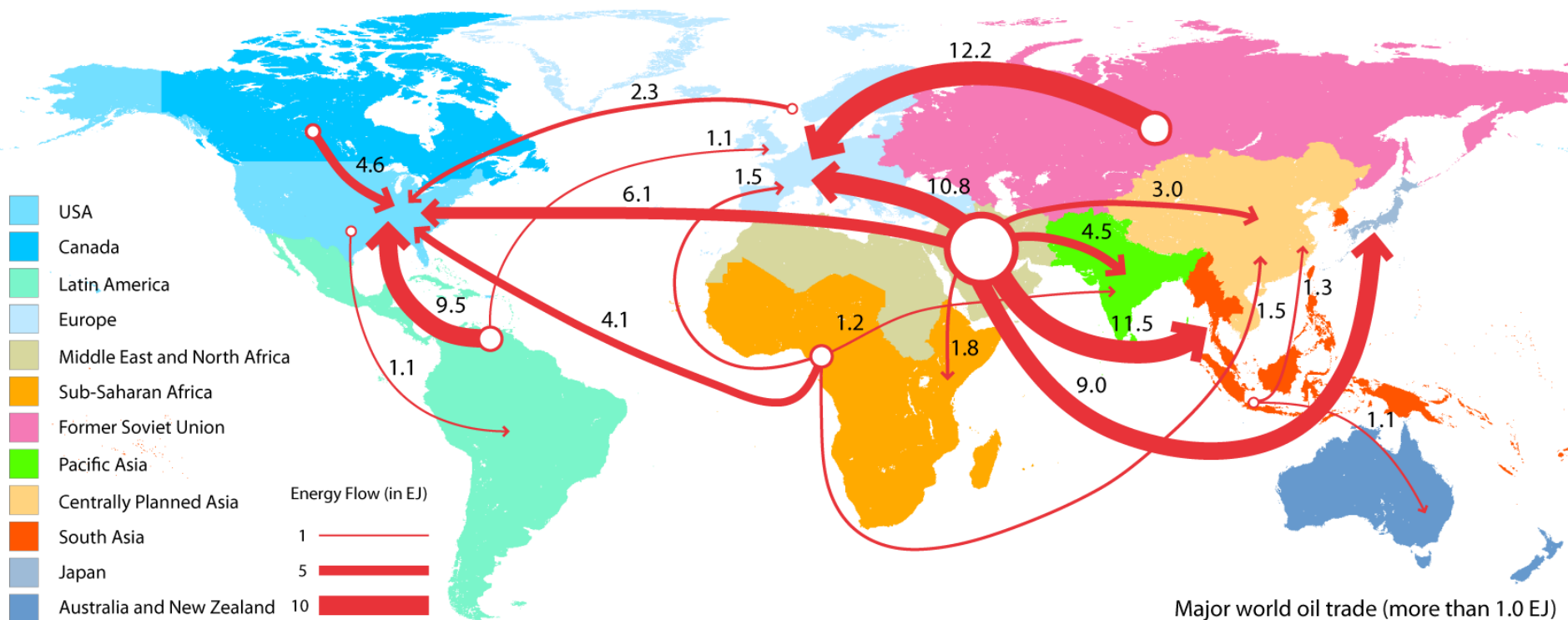




Energy Densities of Fossil and Renewable Energy Supply and Demand

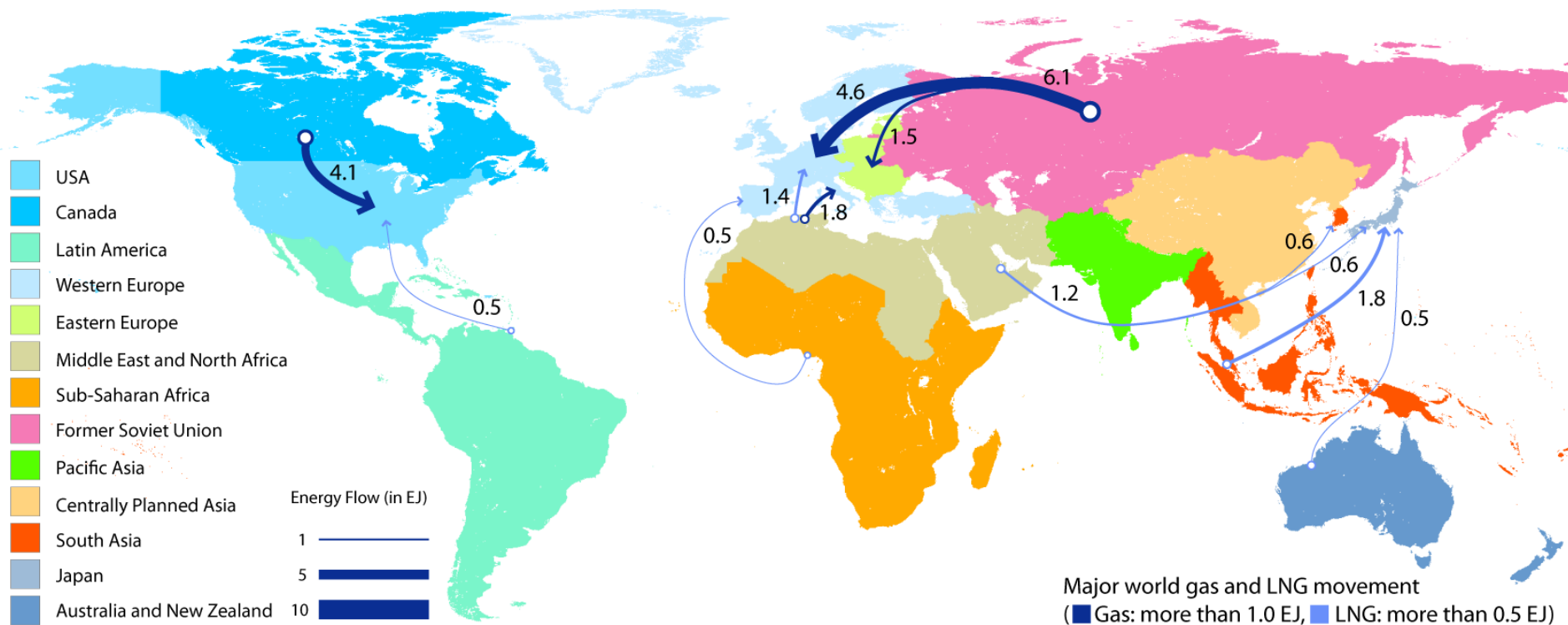


World Energy Trade: Crude Oil and Oil Products



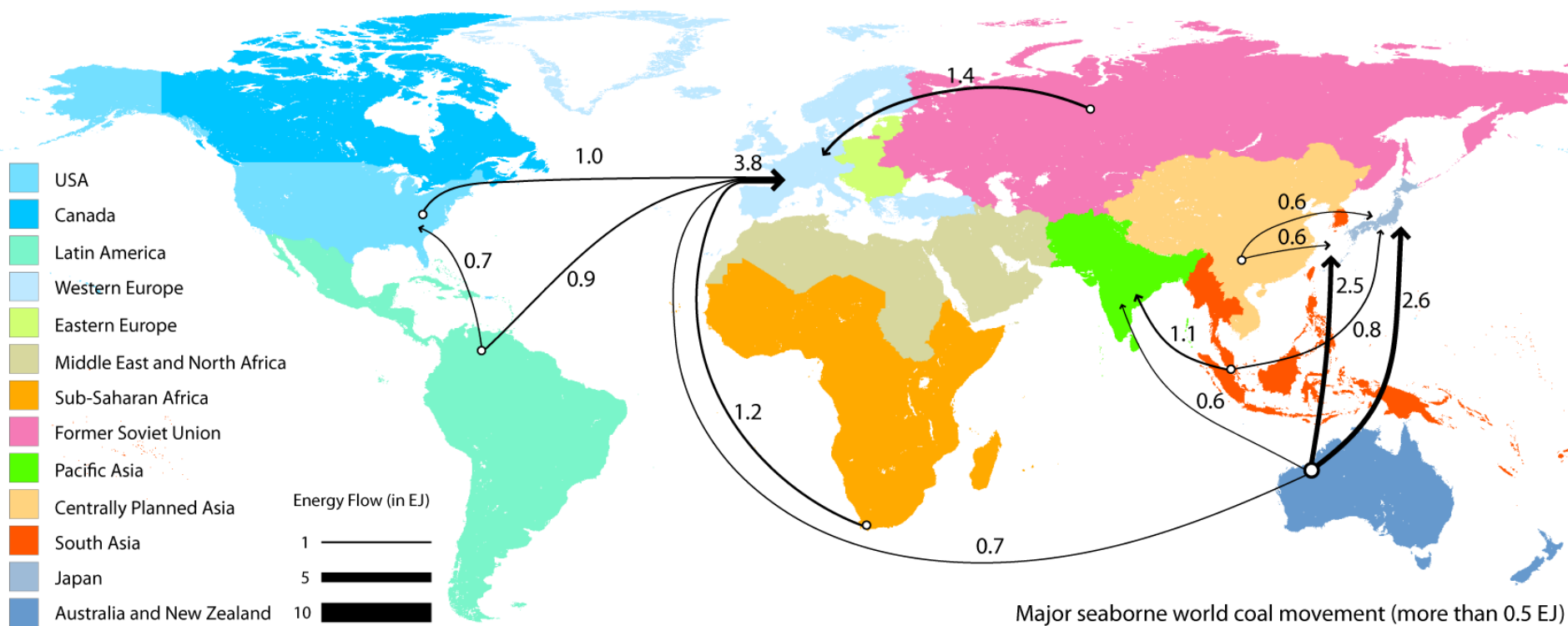


World Energy Trade: Gas by Pipeline and LNG



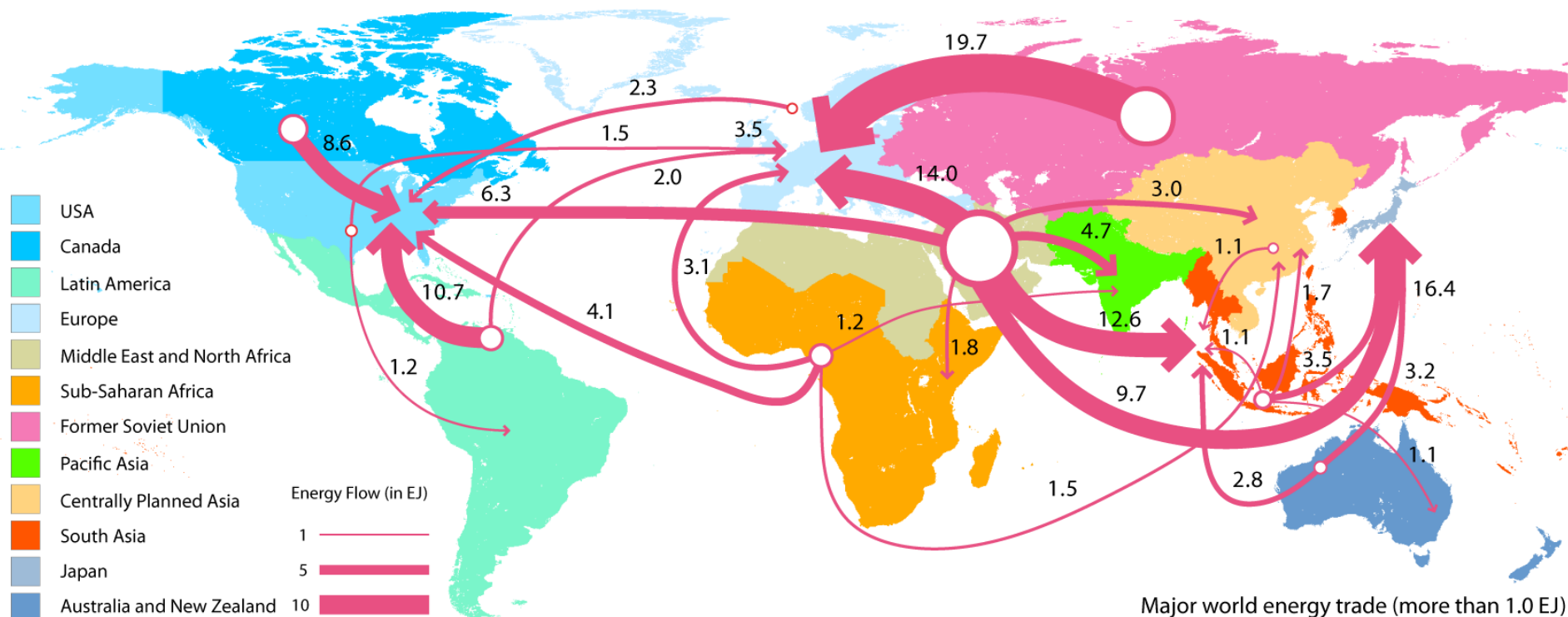


World Energy Trade: Coal

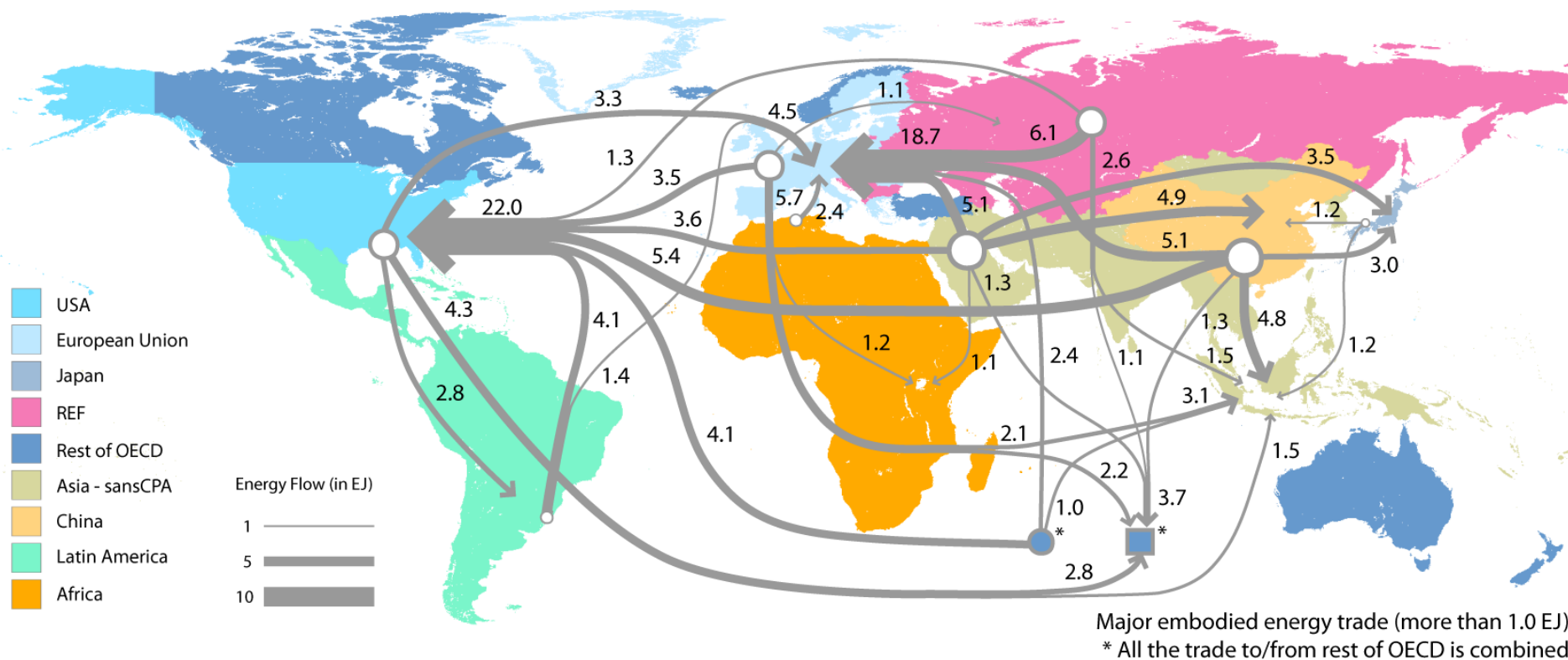




World Energy Trade: Total Direct Energy



World Energy Trade: Embodied Energy in Goods





Electricity Output by Generating Source in 2005

■ Biomass

■ Coal

■ Oil

■ Gas

■ Nuclear

■ Hydro

■ Other renewables

OECD90

REF

ASIA

MAF

LAC

World

TWh
EJ

9454
34

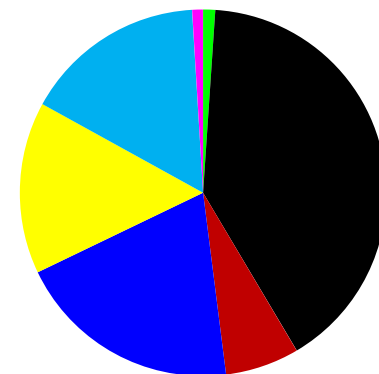
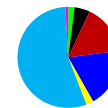
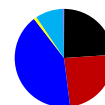
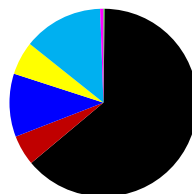
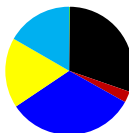
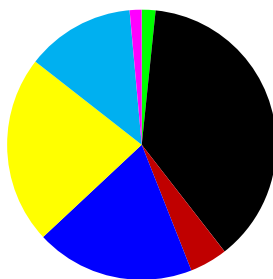
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7

4526
16

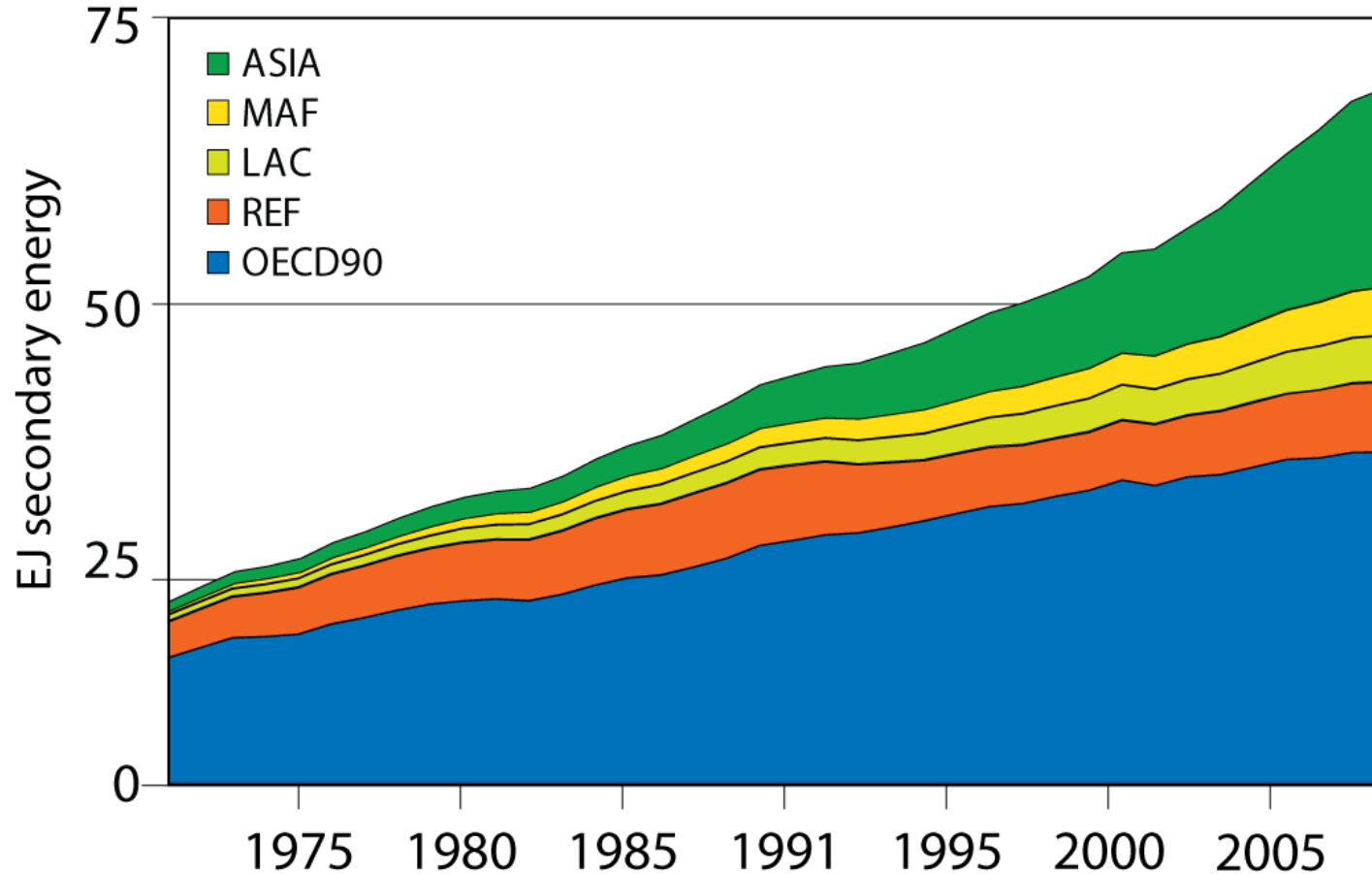
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4

1179
4

18256
66

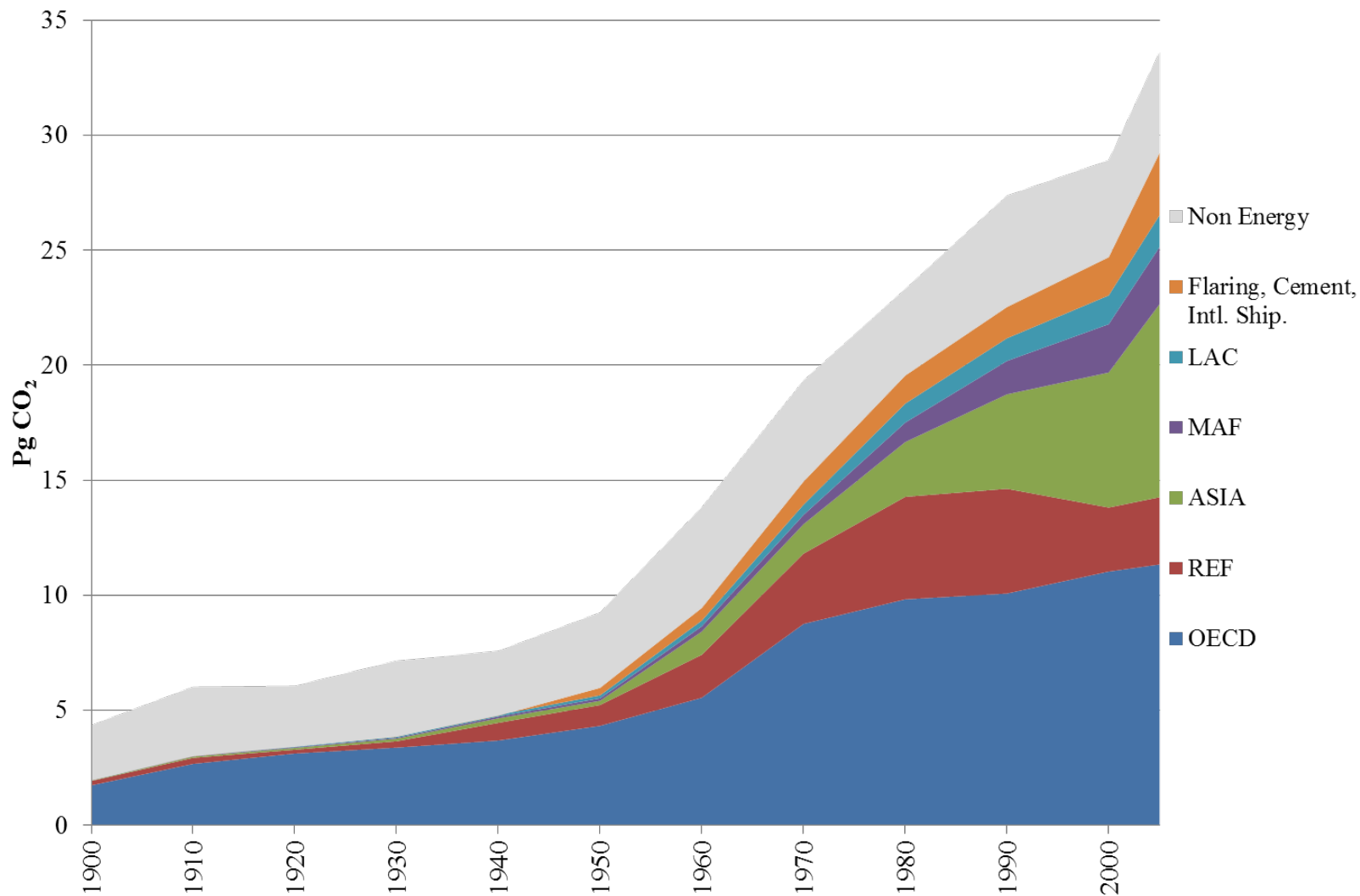


World Electricity Generation in Five GEA Regions

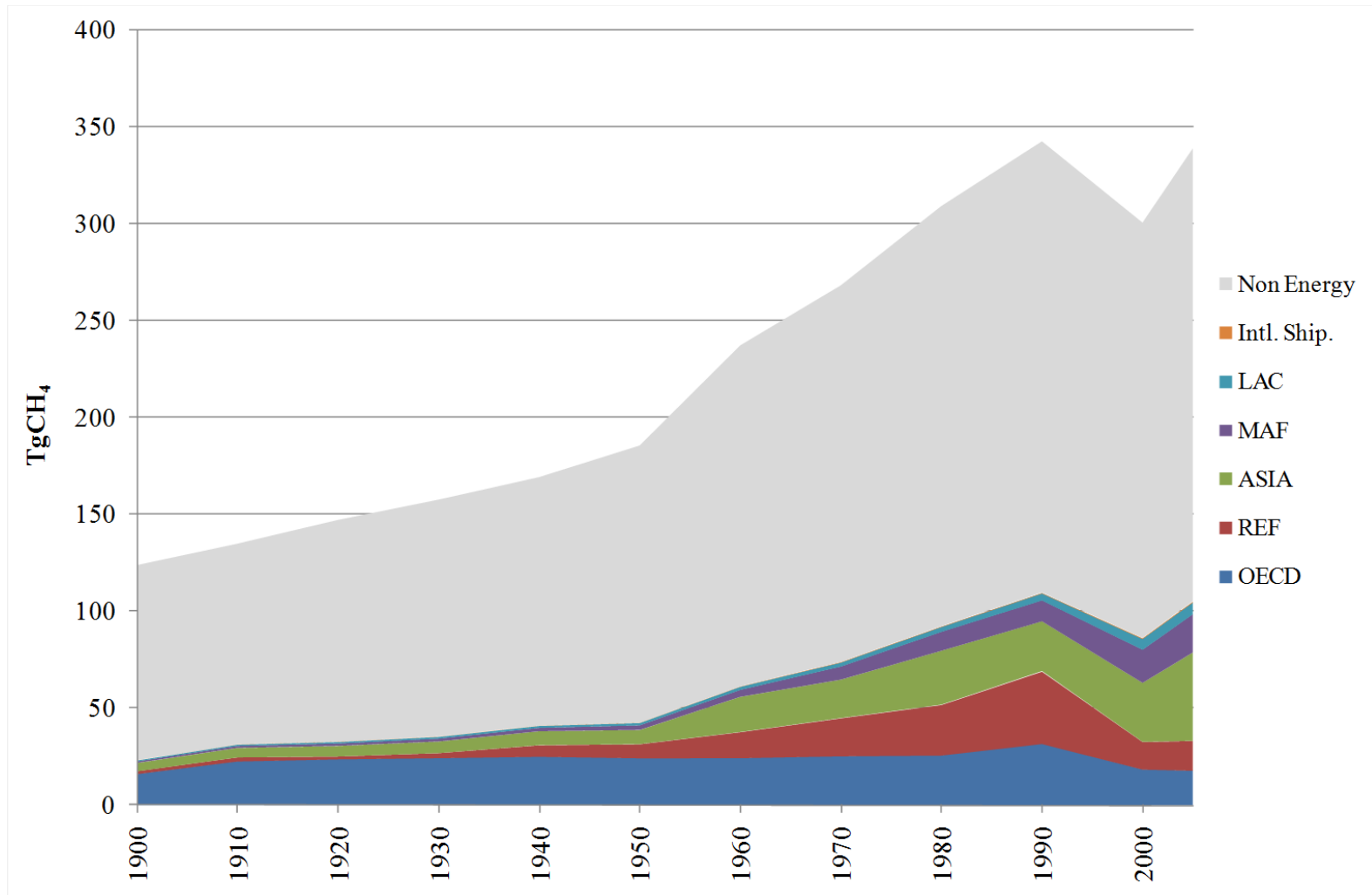




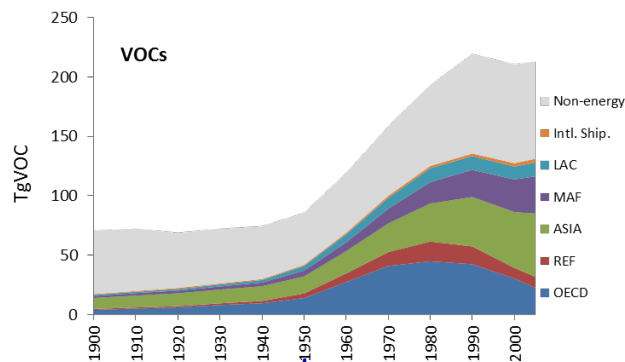
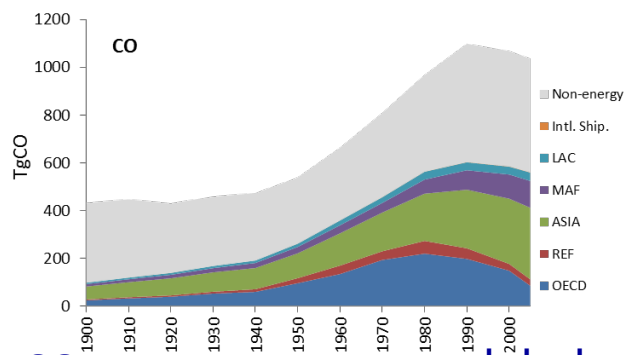
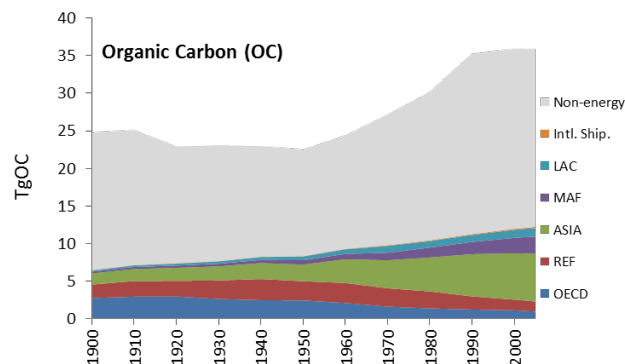
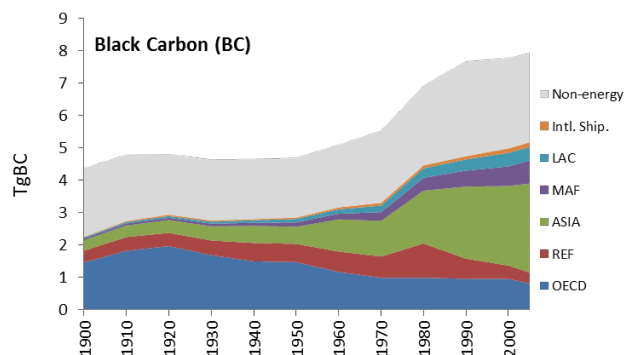
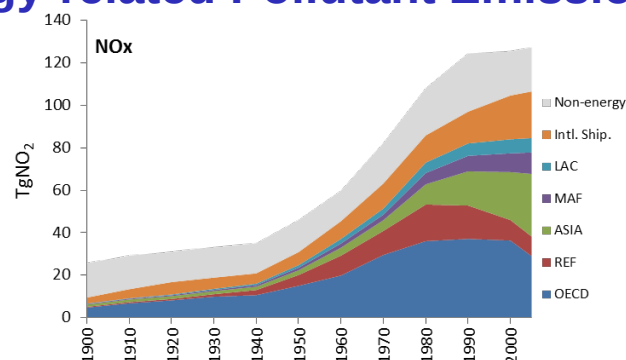
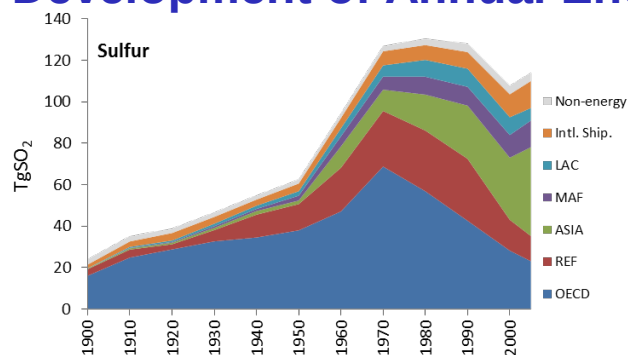
Development of Annual Energy-related CO₂ Emissions by Region



Development of Annual Energy-related CH₄ Emissions by Region

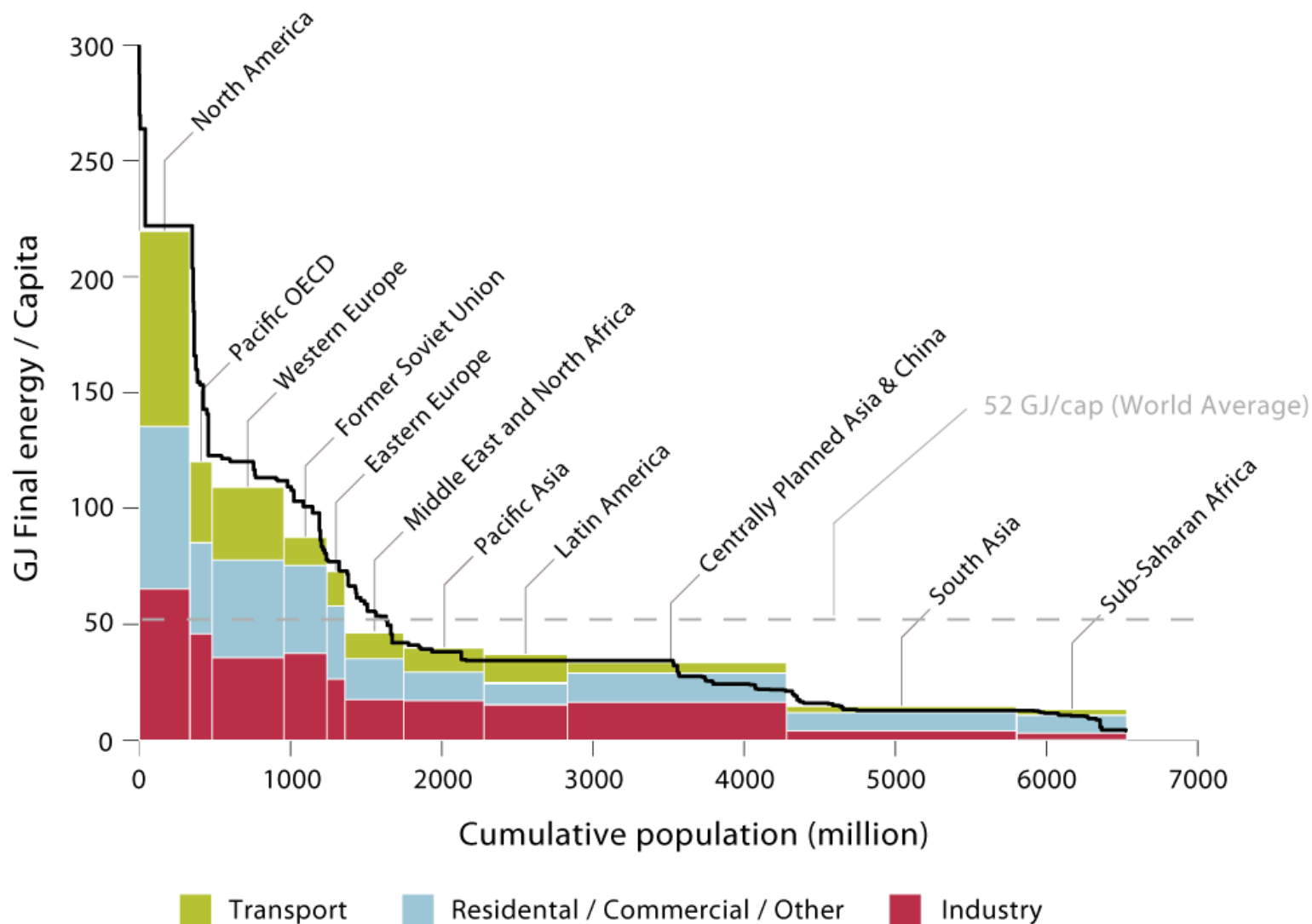


Development of Annual Energy-related Pollutant Emissions



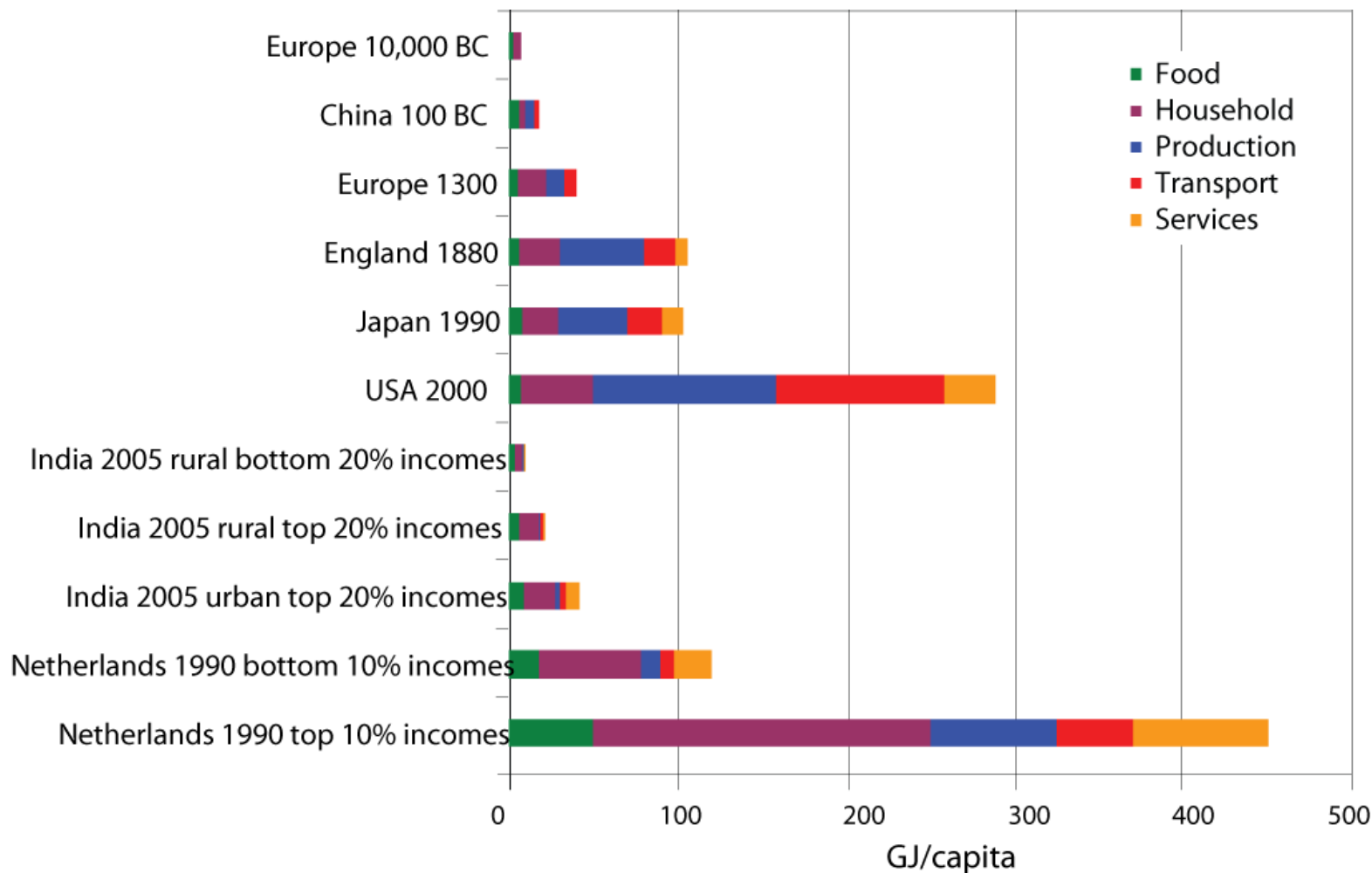


World Final Energy Per Capita versus Cumulative Population



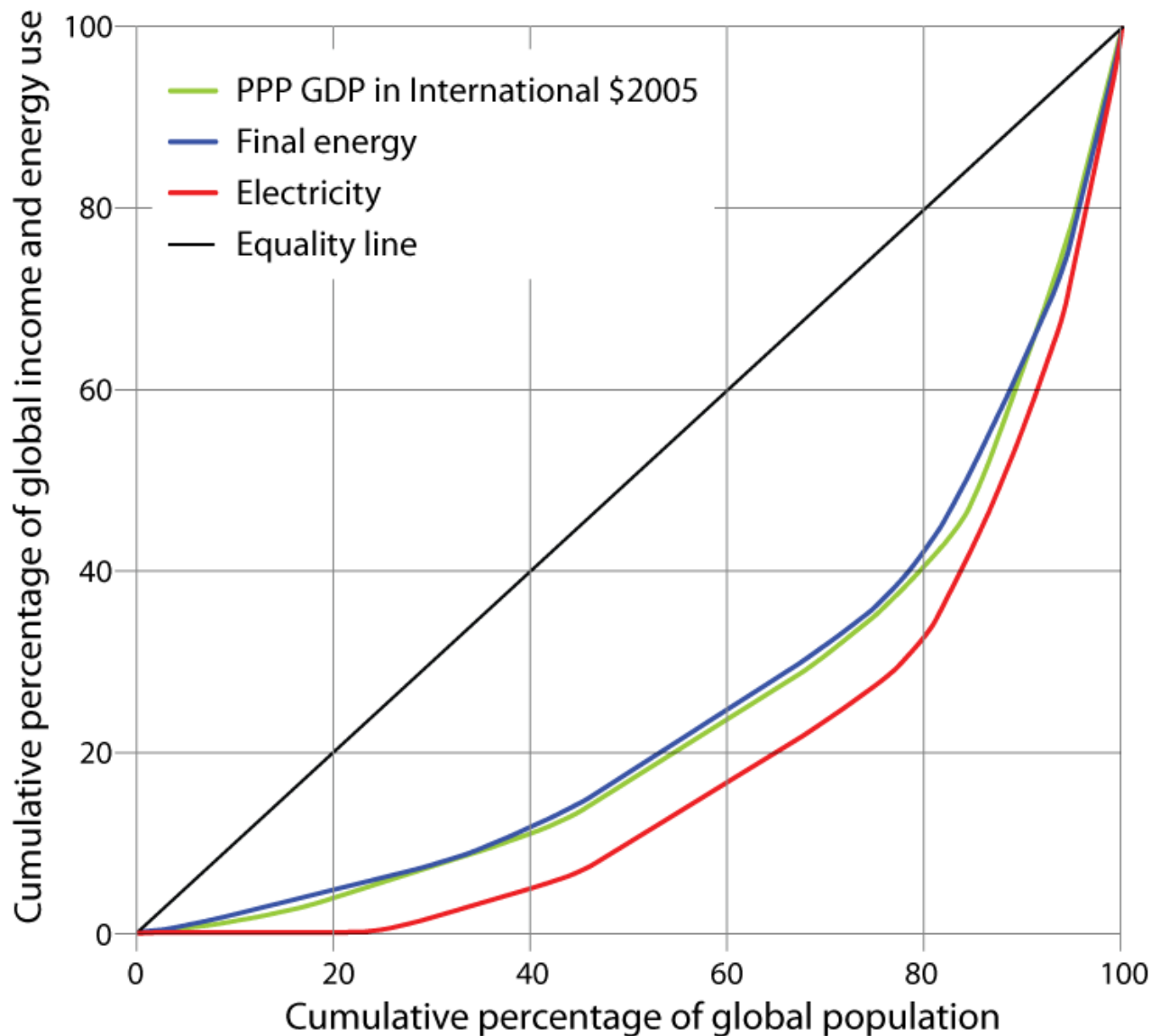


Per Capita Primary Energy Use by Service Category over Time and Across Different Populations



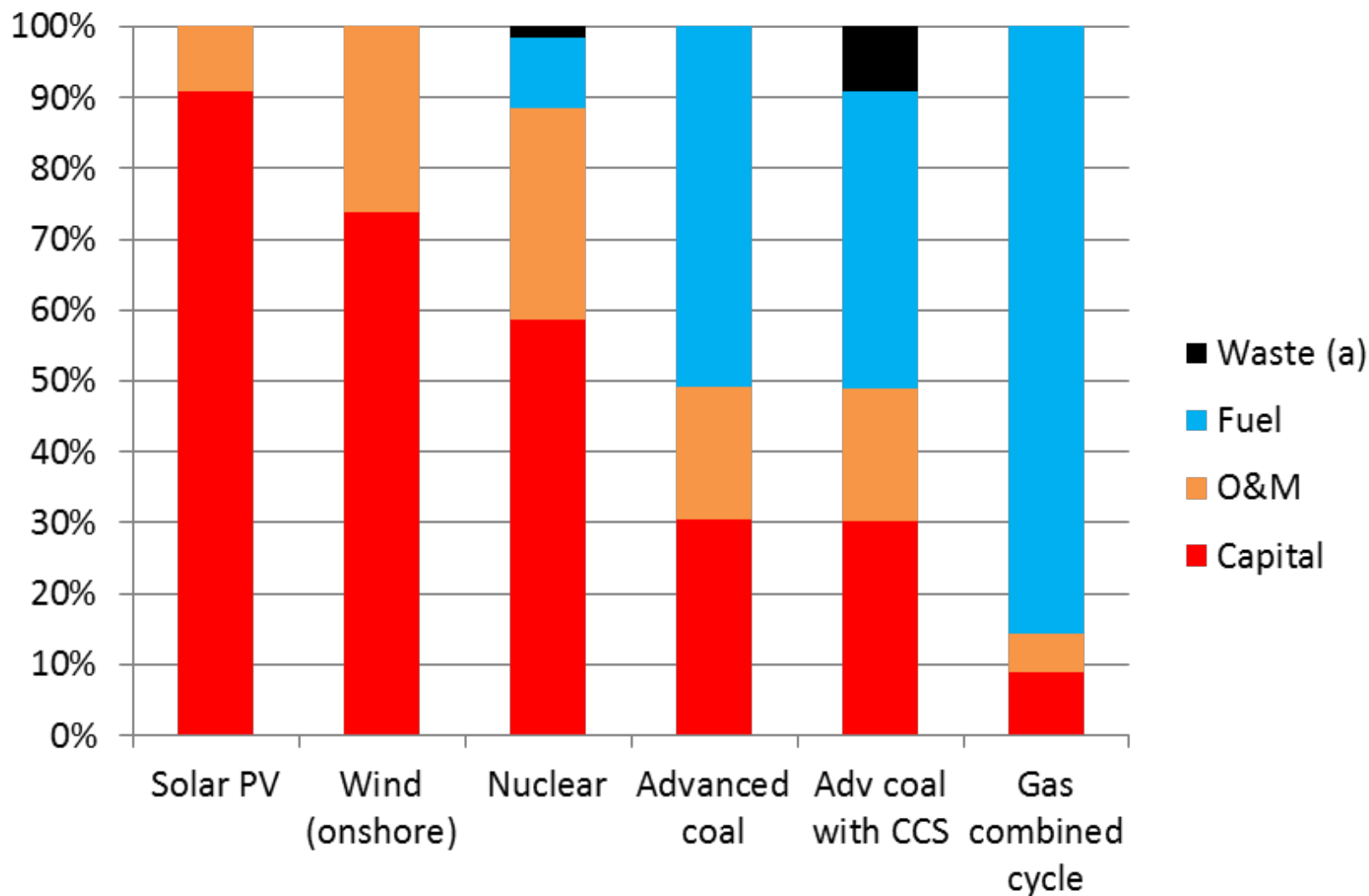


Lorenz Curves of Energy Inequality



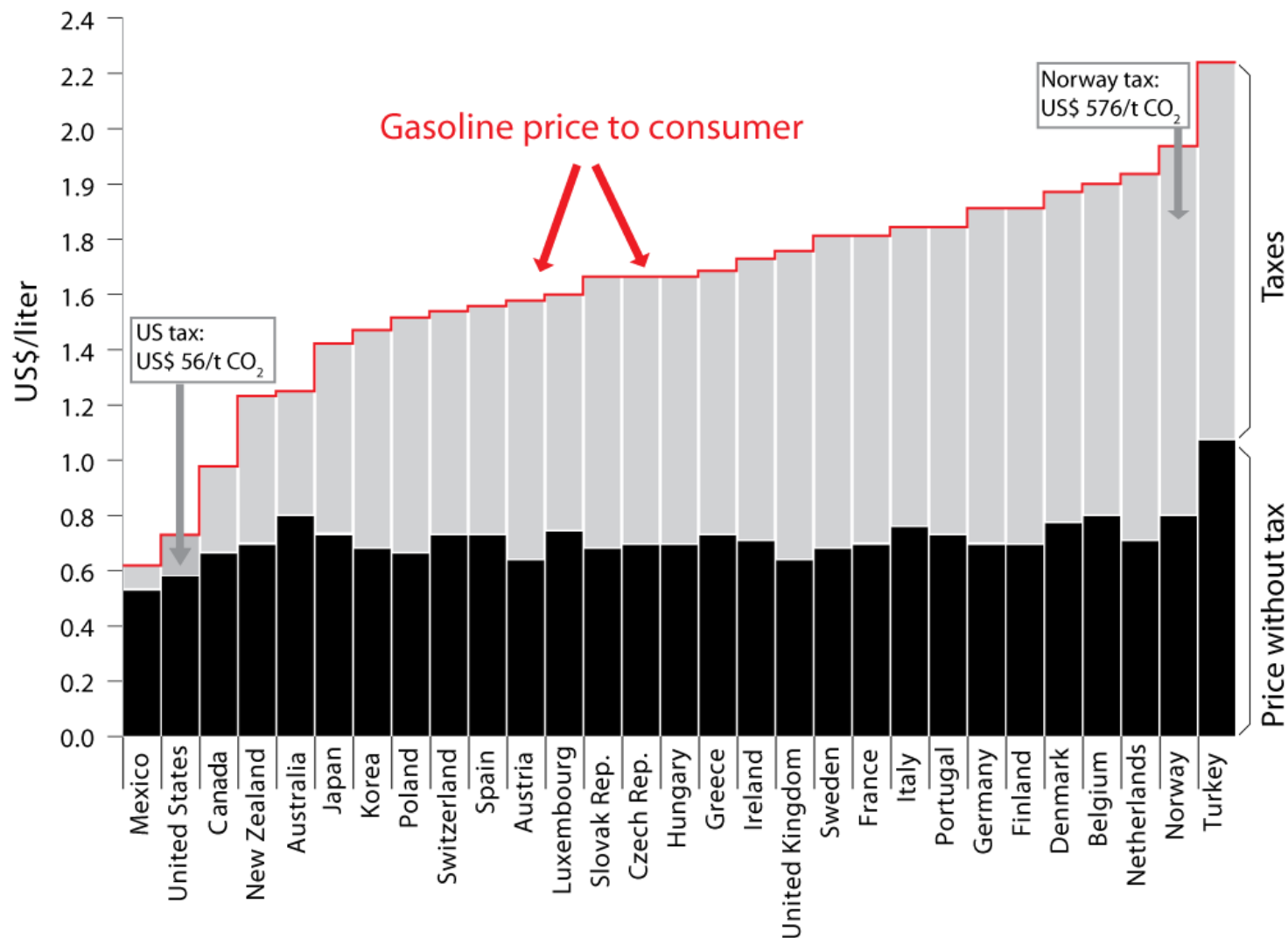


Structure of Total Levelized Costs of Electricity Generation Technologies

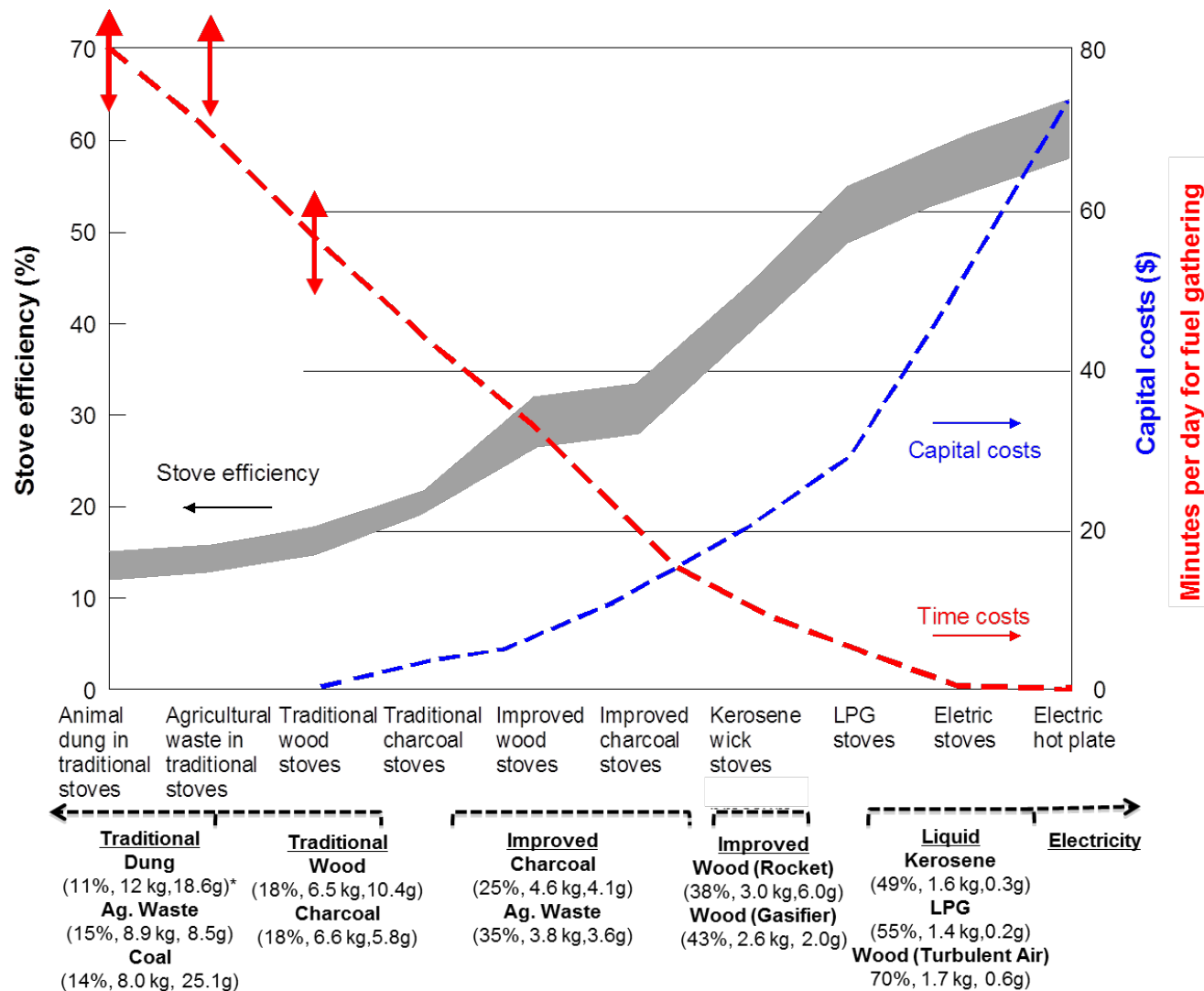




Gasoline Prices with and without Taxes and Implied Carbon Prices

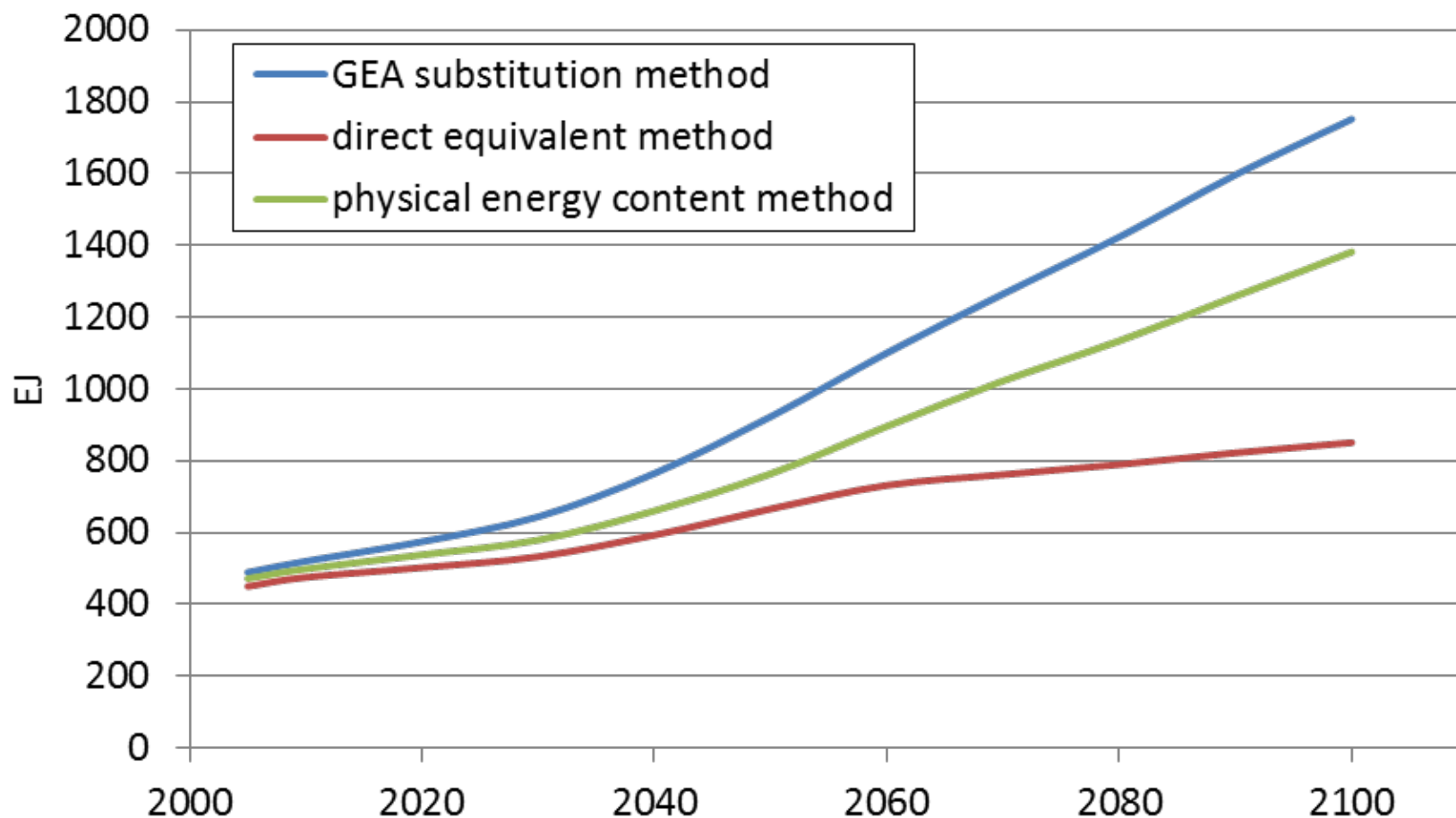


Different costs of Energy Service Provision



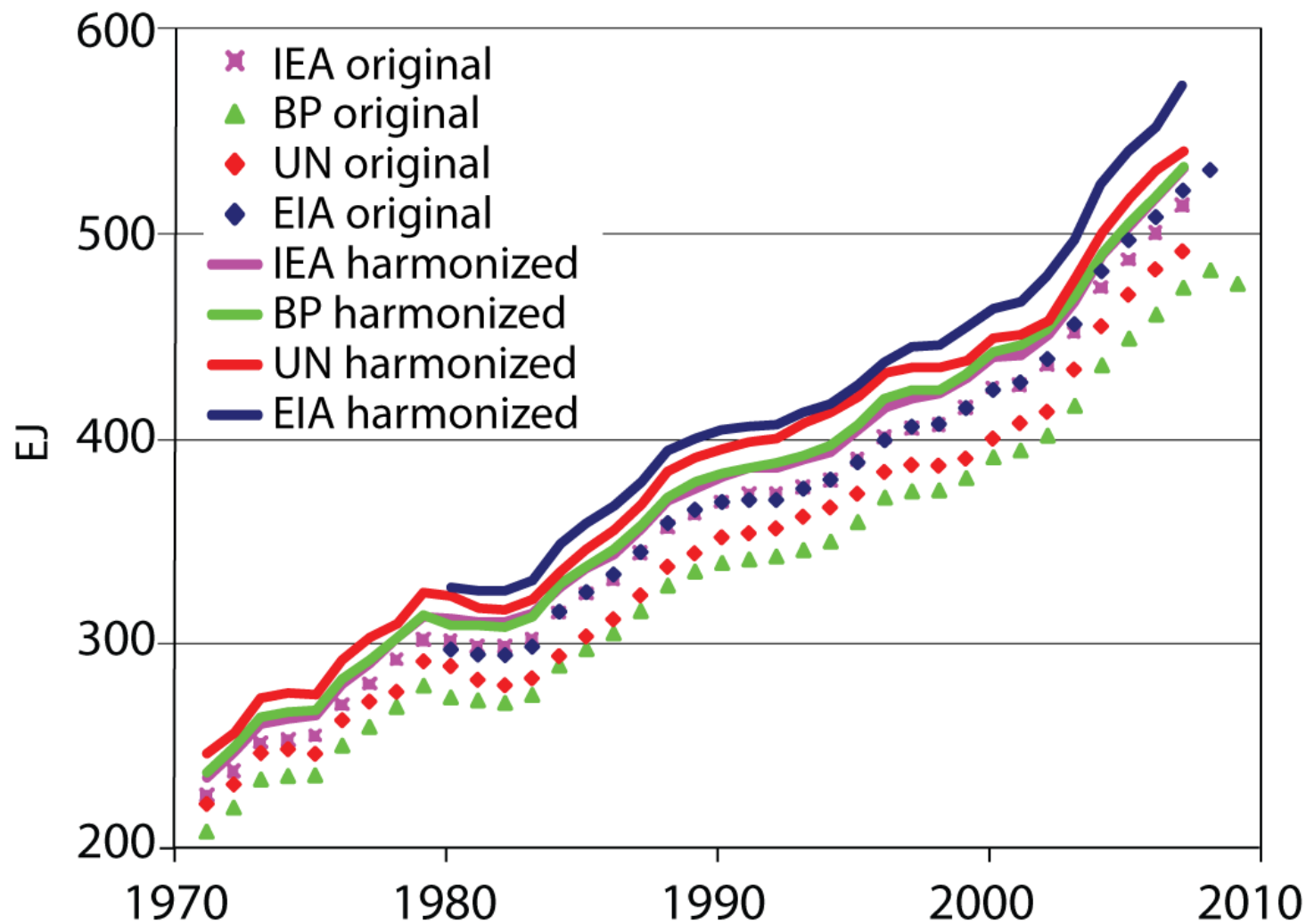


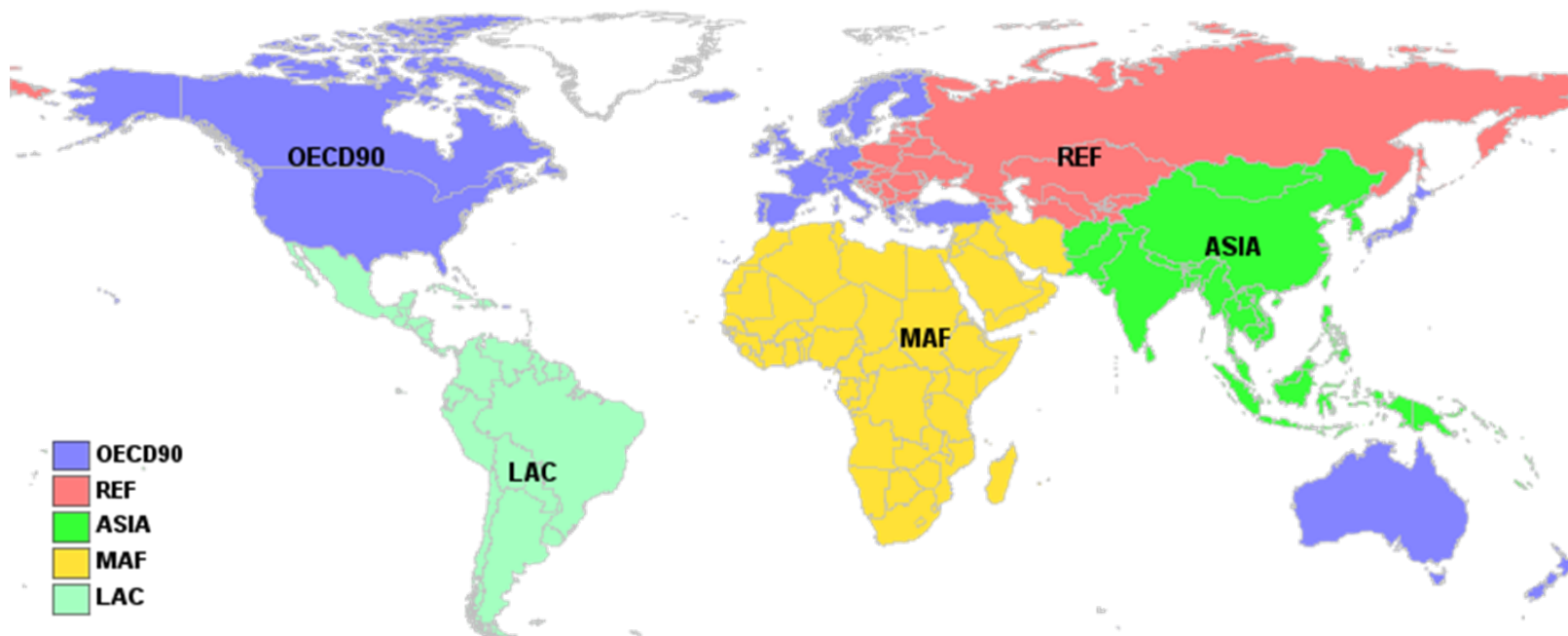
Primary Accounting Methods





World Primary Energy Estimates





Regional acronyms	Regional definition
OECD90	UNFCC Annex I countries
REF	Eastern Europe and Former Soviet Union
ASIA	Asia excl. OECD90 countries
MAF	Middle East and Africa
LAC	Latin America and the Caribbean

OECD90 = OECD countries as of 1990 in Western Europe, North America, and Pacific Asia (and defined in UNFCCC as Annex-I countries)

REF = Countries undergoing economic reform, i.e. countries in Eastern Europe and the former Soviet Union

ASIA = non-Annex-I countries in Asia

MAF = Middle East and North, and Sub-Saharan Africa

LAC = Latin America and the Caribbean

For country listings and finer-resolution regional definitions see Annex-II.