

The One GigaHuman Earth

By Cesare A. Galtieri

Fig. 2.1: Population Projection (Billion Humans (GHu)) - Reference case

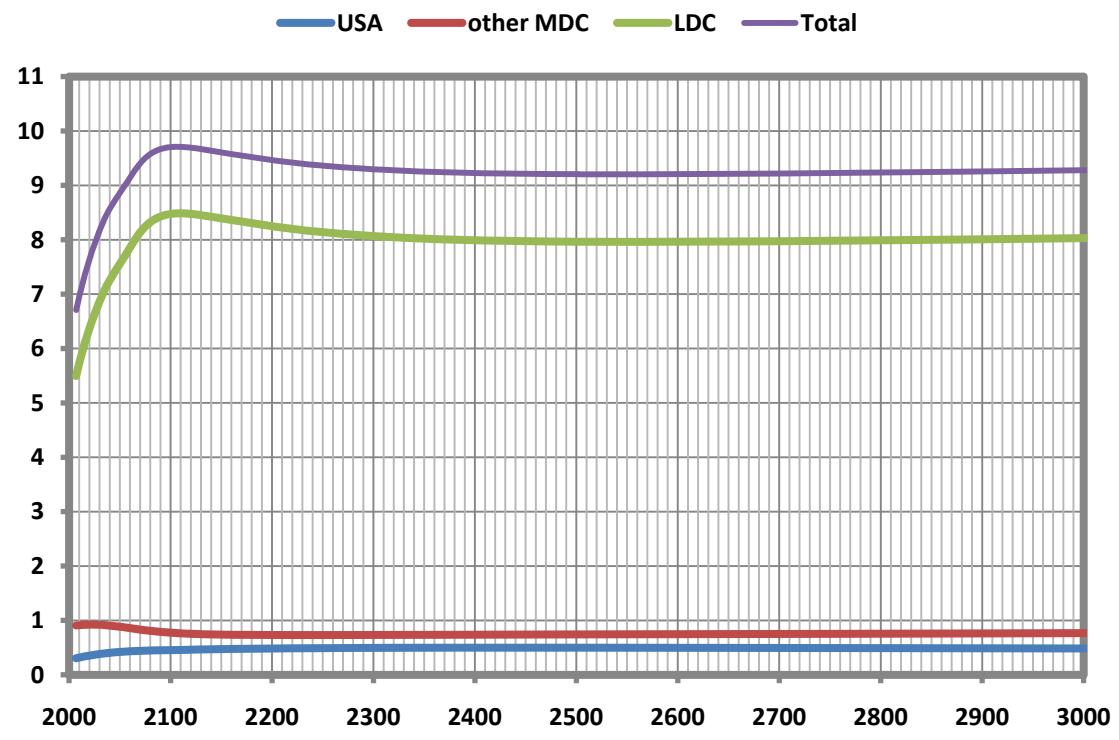


Fig. 2.2.: GDP - Reference Case (Tera\$/year)

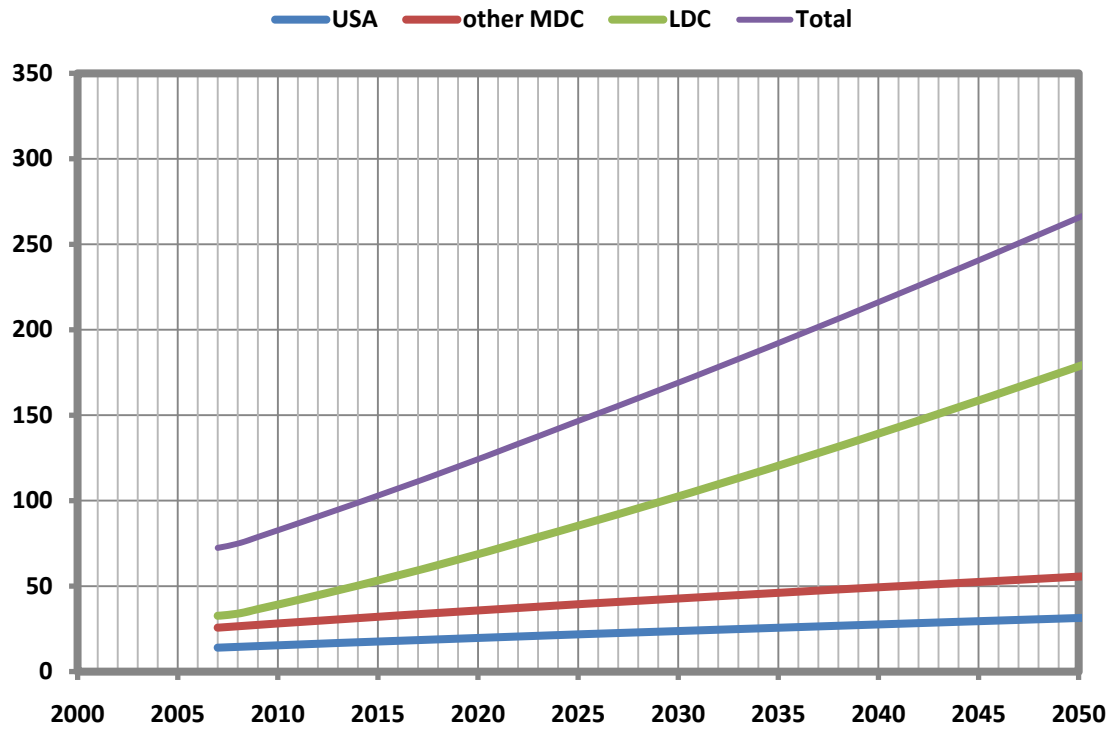


Fig. 2.3: GDP - Reference Case (Tera\$/year)

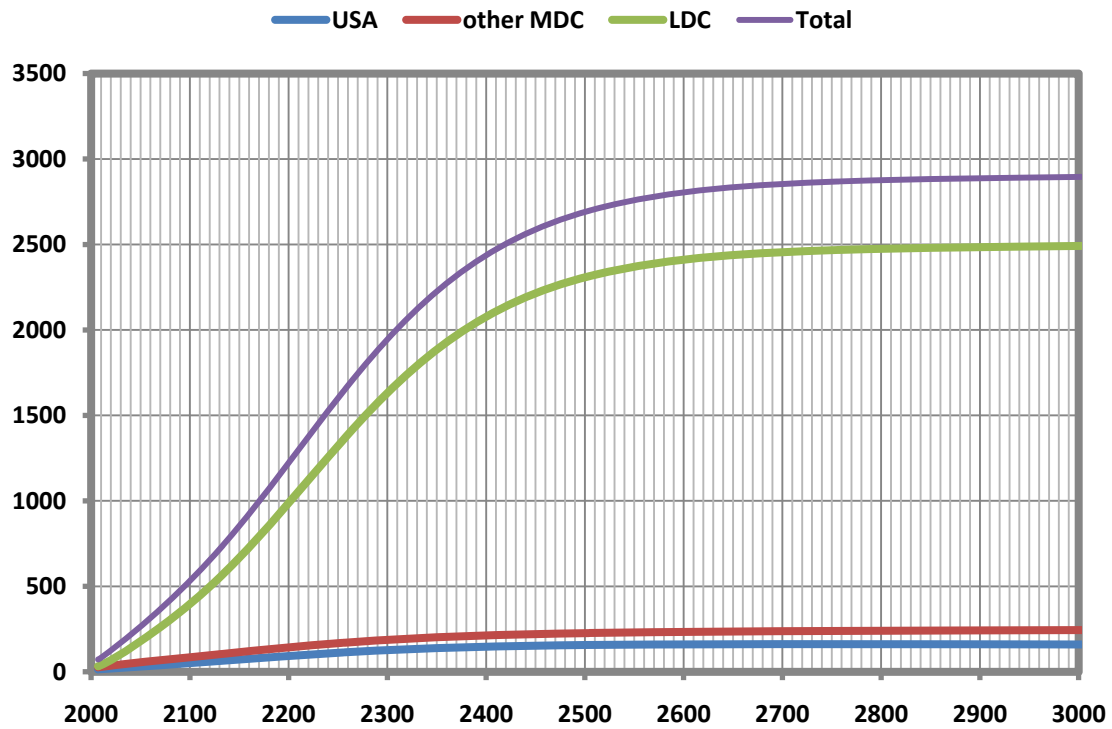


Fig. 2.4: Pro-capite Consumption (K\$/Human/year)- Reference Case

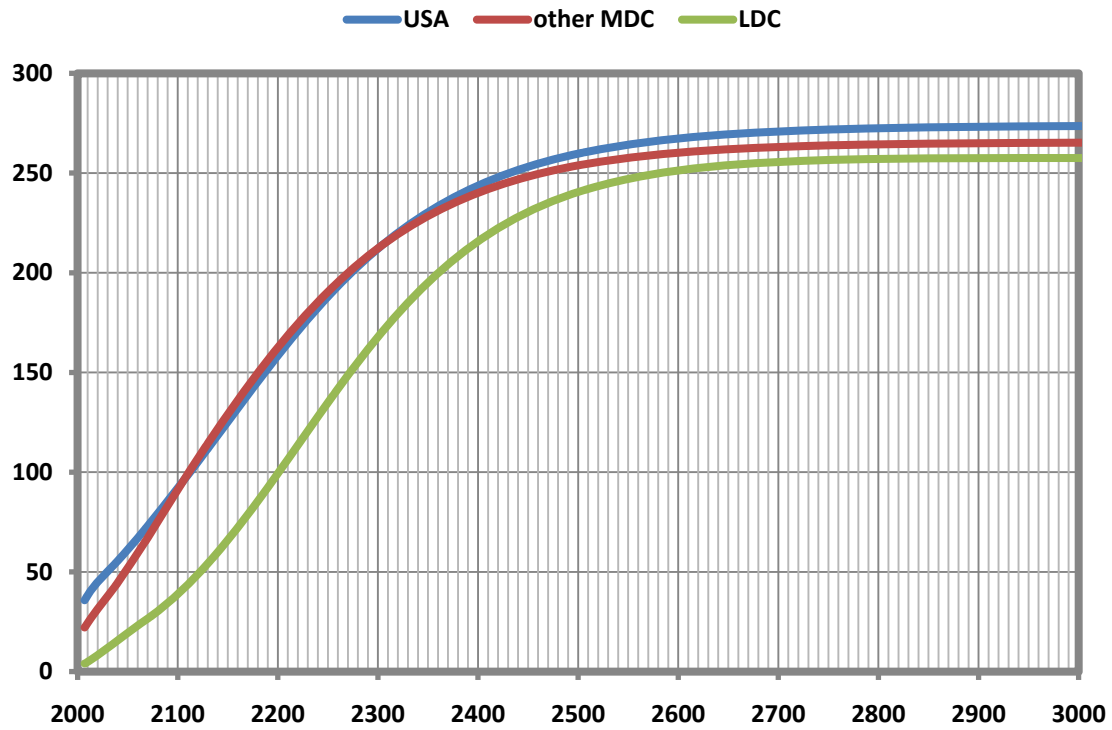


Fig. 2.5a : Energy use (HJ/year) - Reference Case

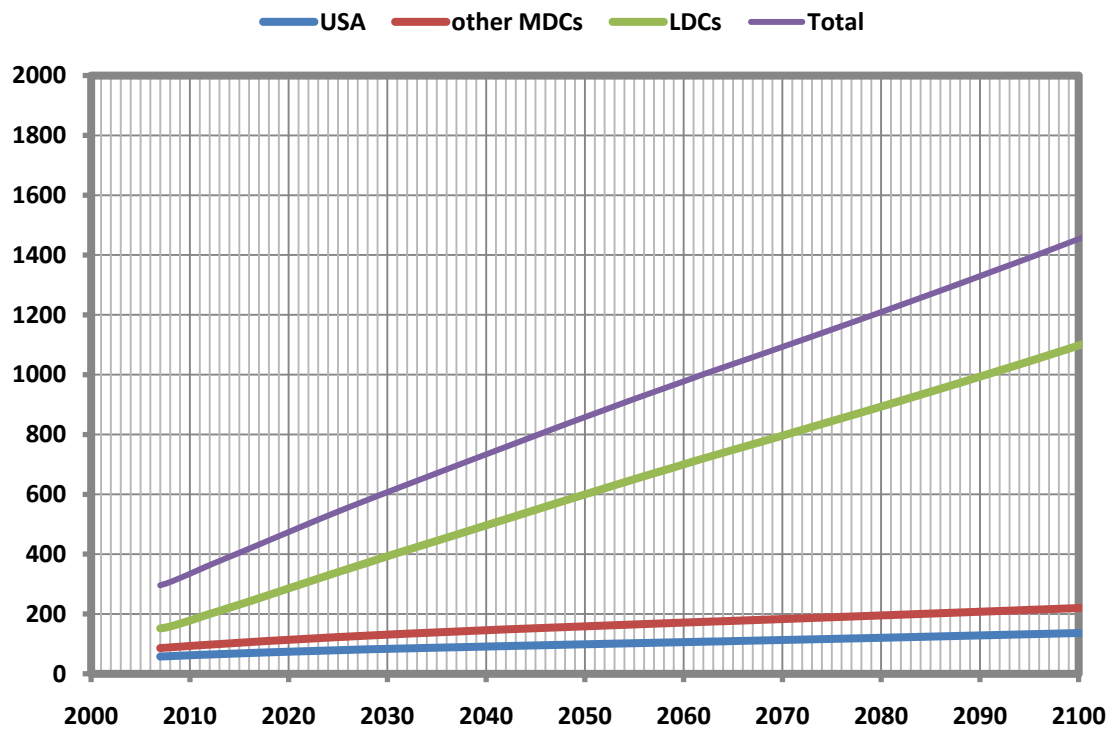


Fig. 2.5b : Energy use (HJ/year) - Reference Case

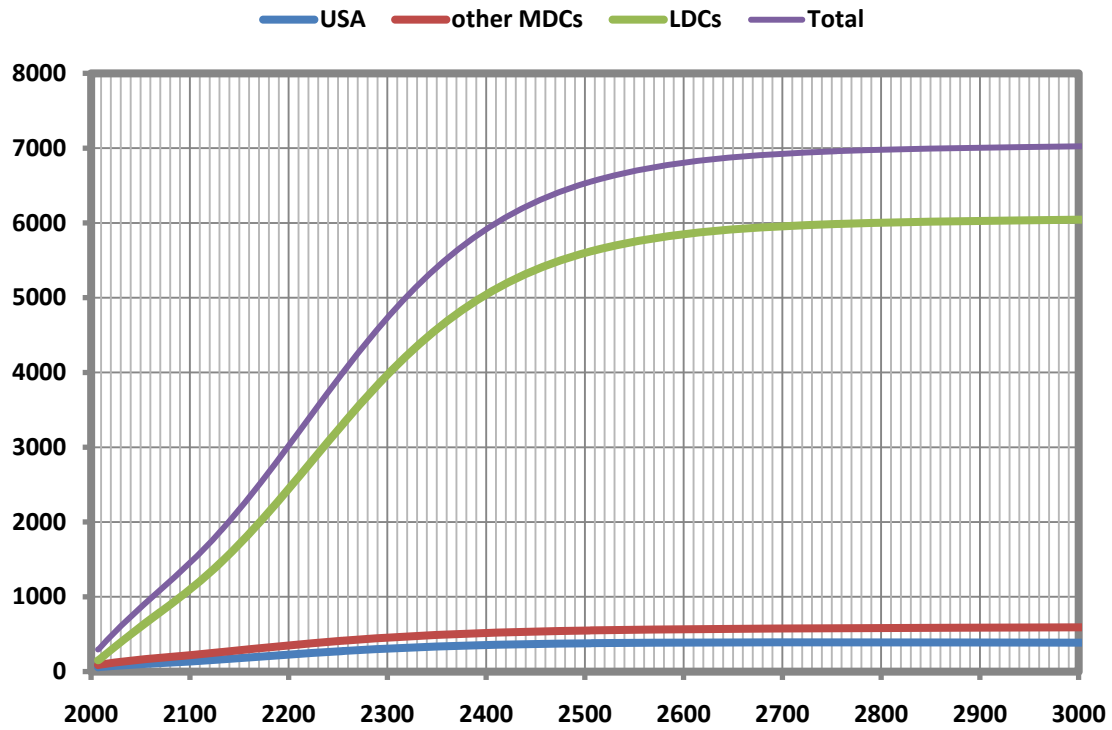


Fig. 2.6: Energy Use (percent distribution)- Reference Case

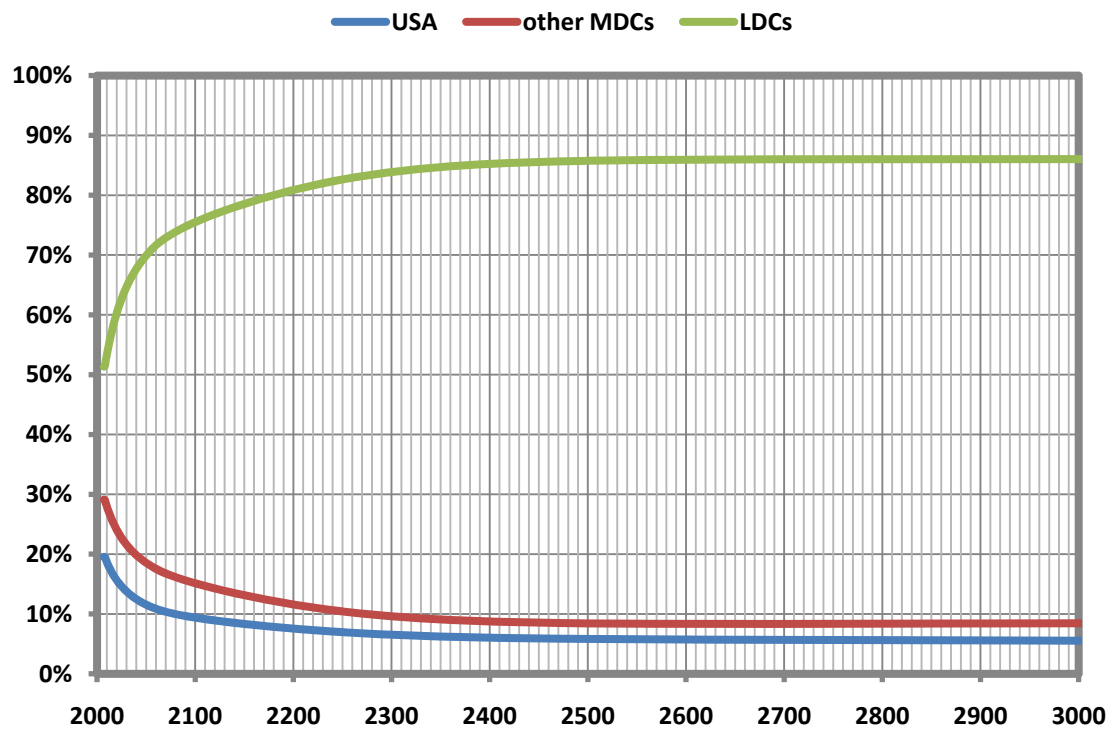


Fig. 2.7: Air and Ground Transportation Demand (HJ/year)- Reference Case

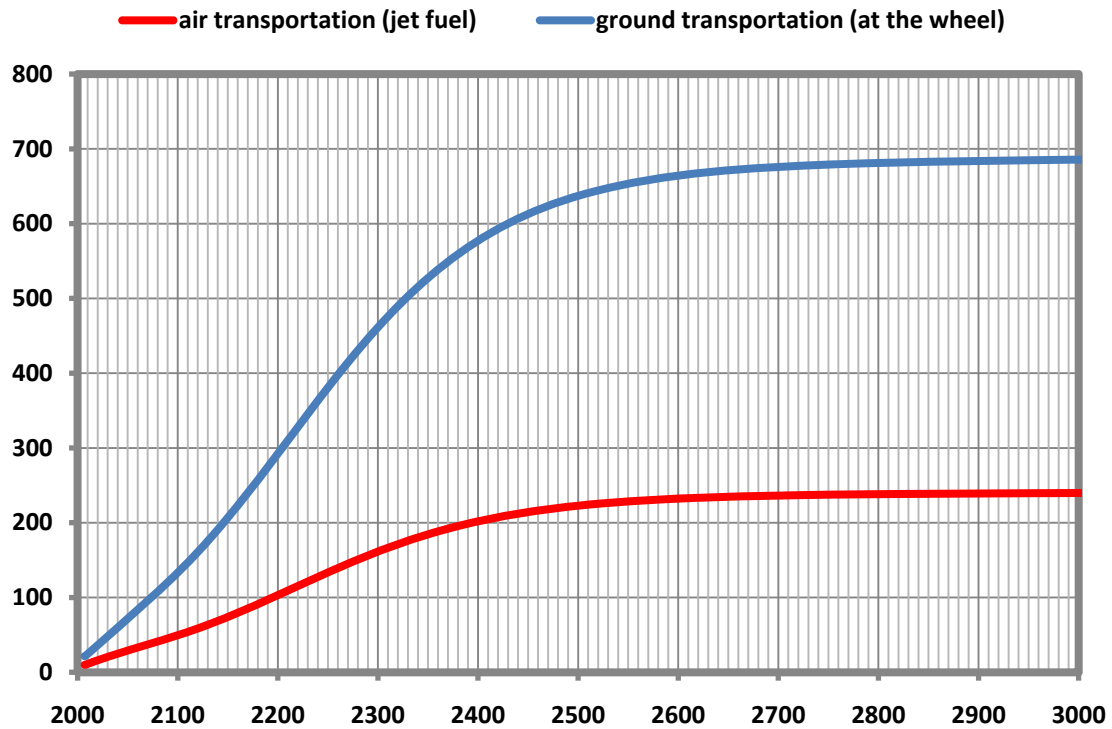


Fig. 2.8: Total Electricity Demand (HJ/year) - Reference Case

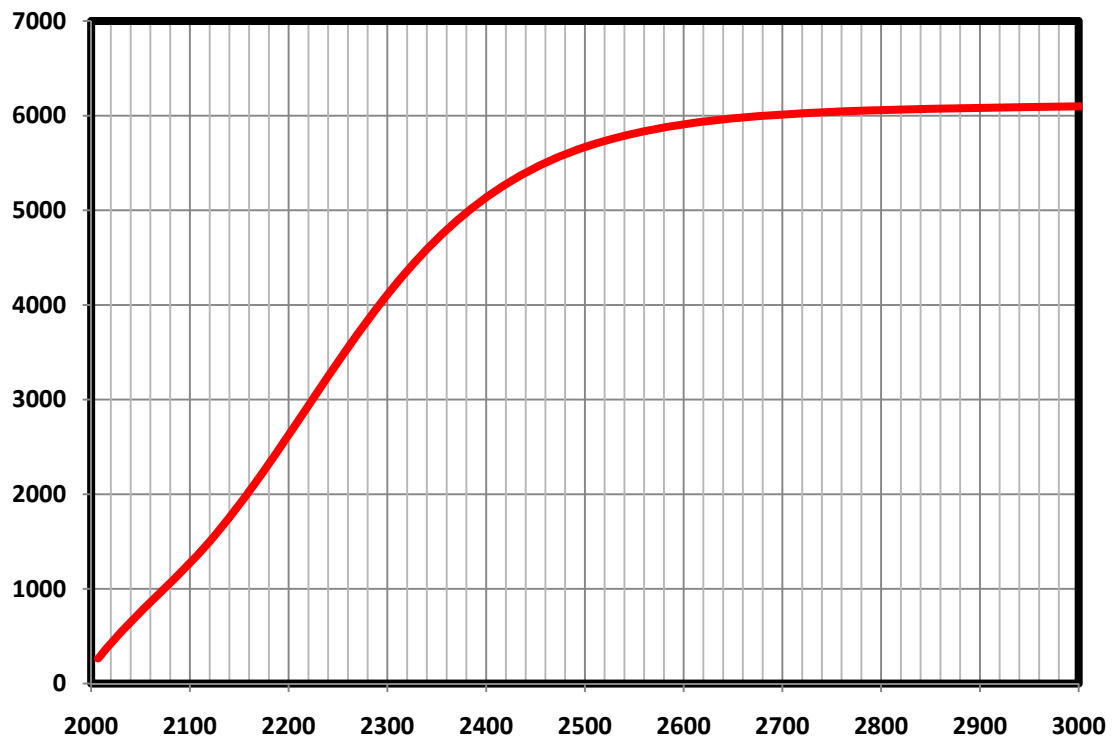


Fig. 2.9: Oil Production(HJ/year) and Reserves (HJ) - Business-as-usual Case

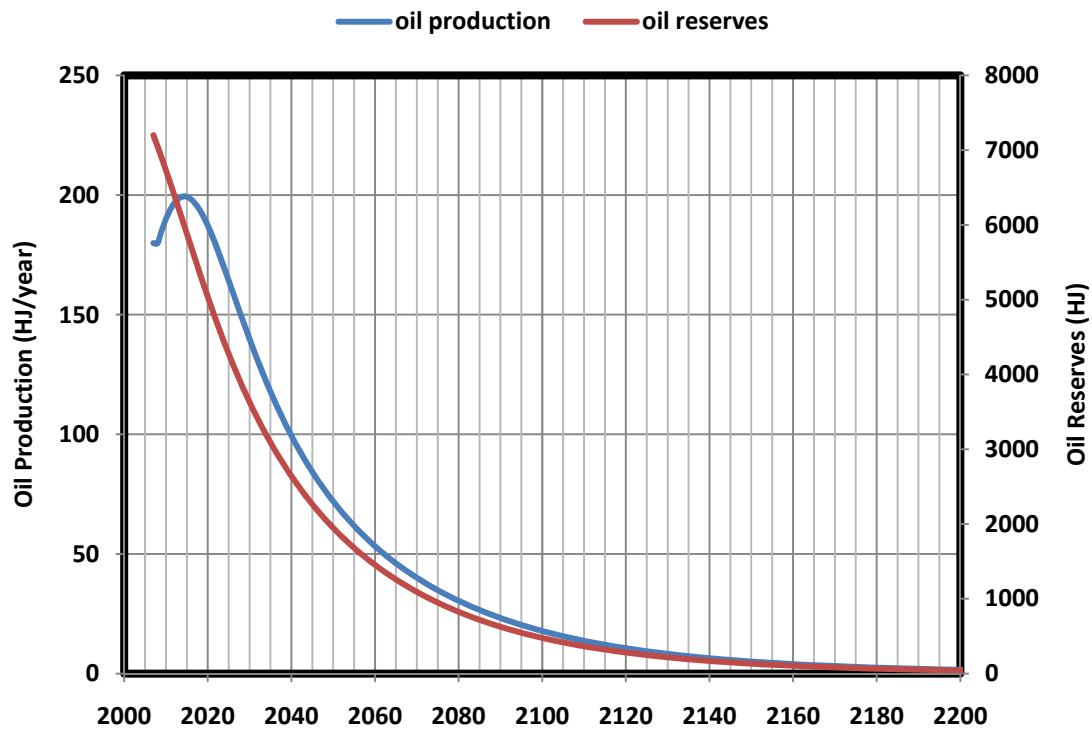


Fig. 2.10: Gas production (HJ/year) and Reserves (HJ) - Business-as-usual Case

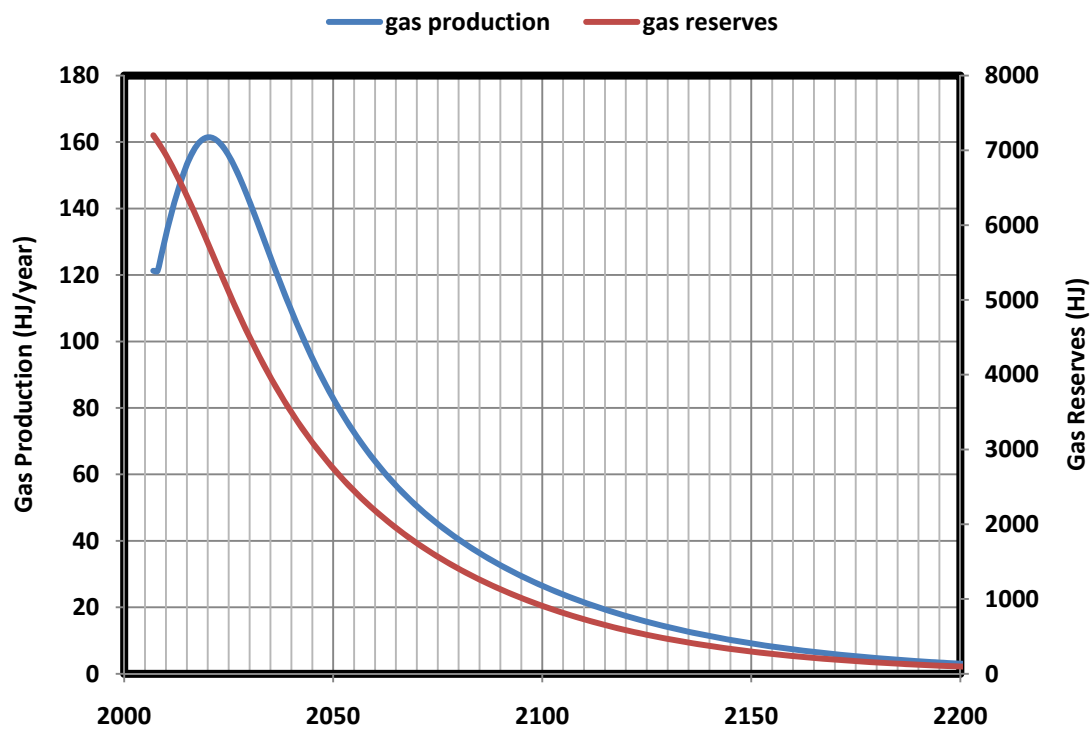


Fig. 2.11: Coal Production (HJ/year) and Reserves (HJ) - Business-as-usual Case

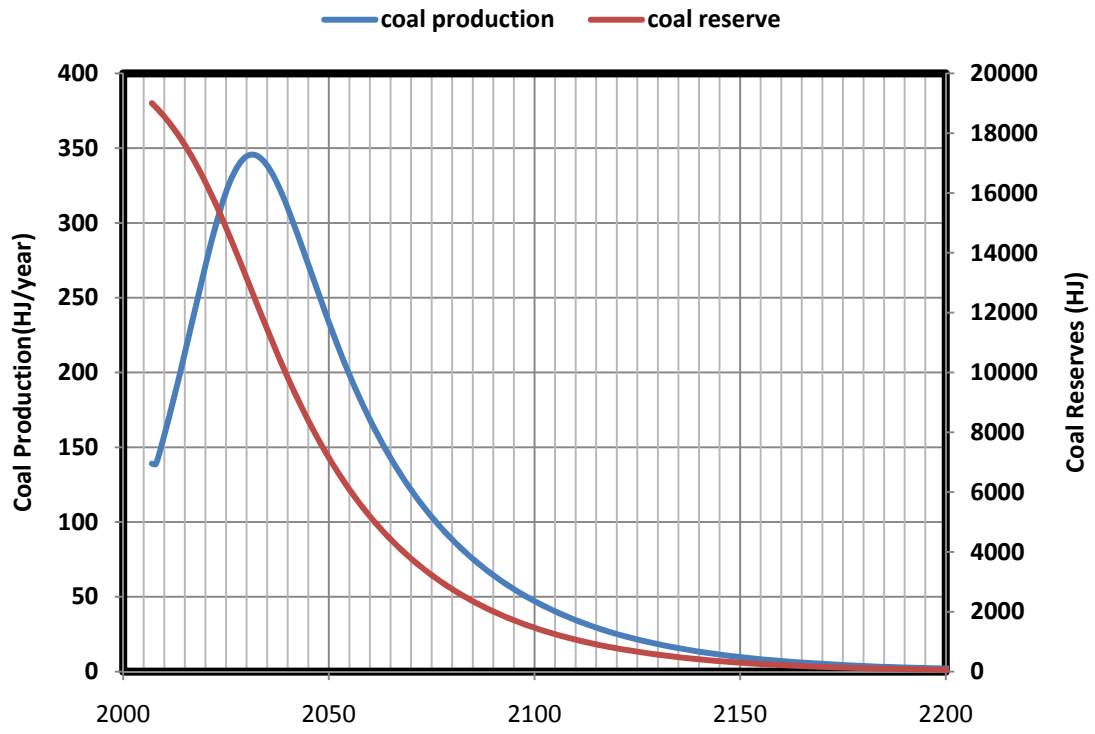


Fig. 2.12: Oil Production and air and Total Transportation Requirements (HJ/year) - Business-as-usual Case

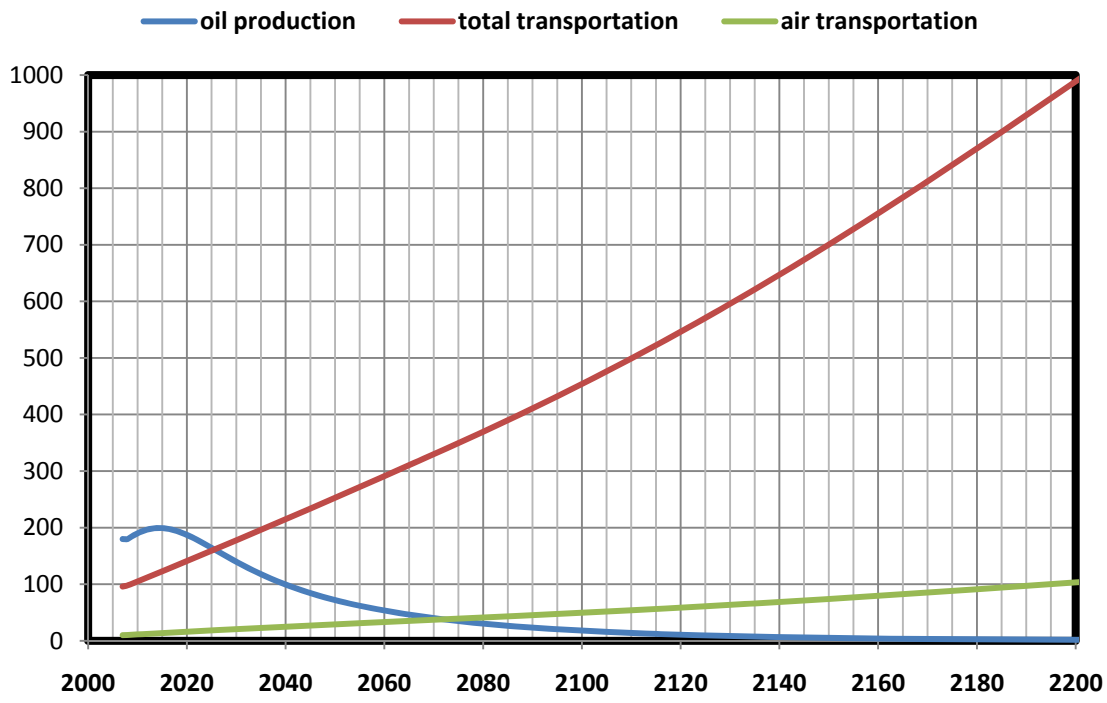


Fig. 2.13: Residual Energy Demand(HJ/year) - Business-as-usual Case

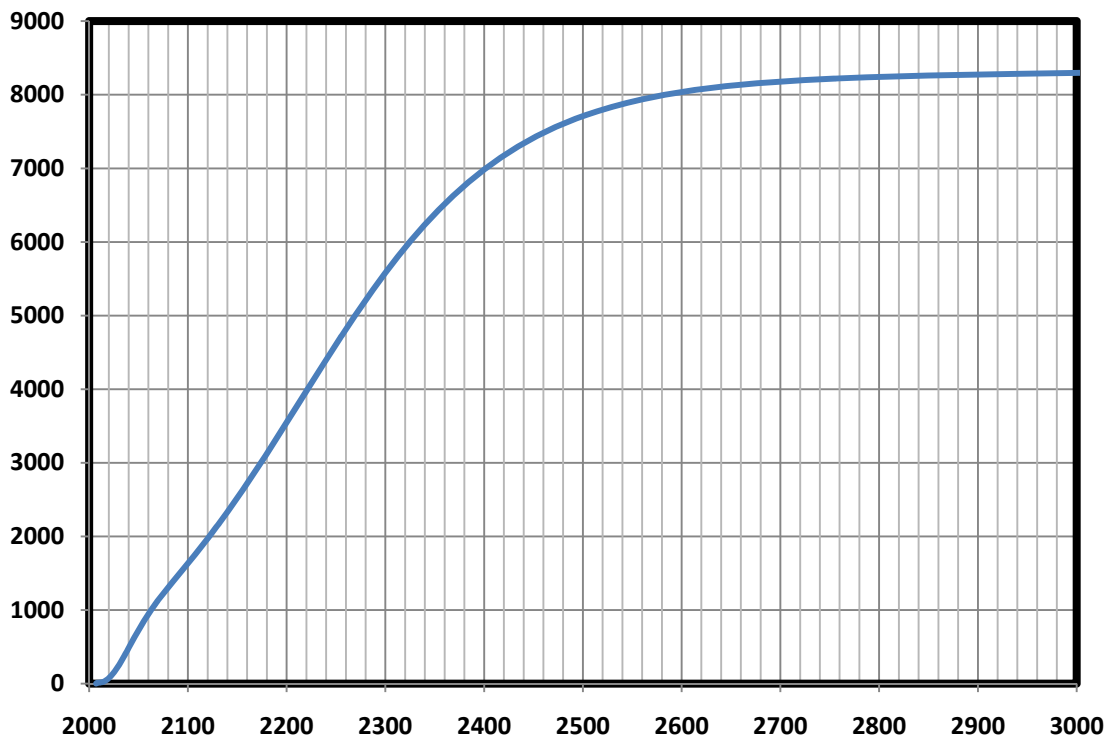


Fig. 2.14: Phosphate Consumption (Million Tons/year) and Phosphate Reserves (Million Tons) - Reference Case

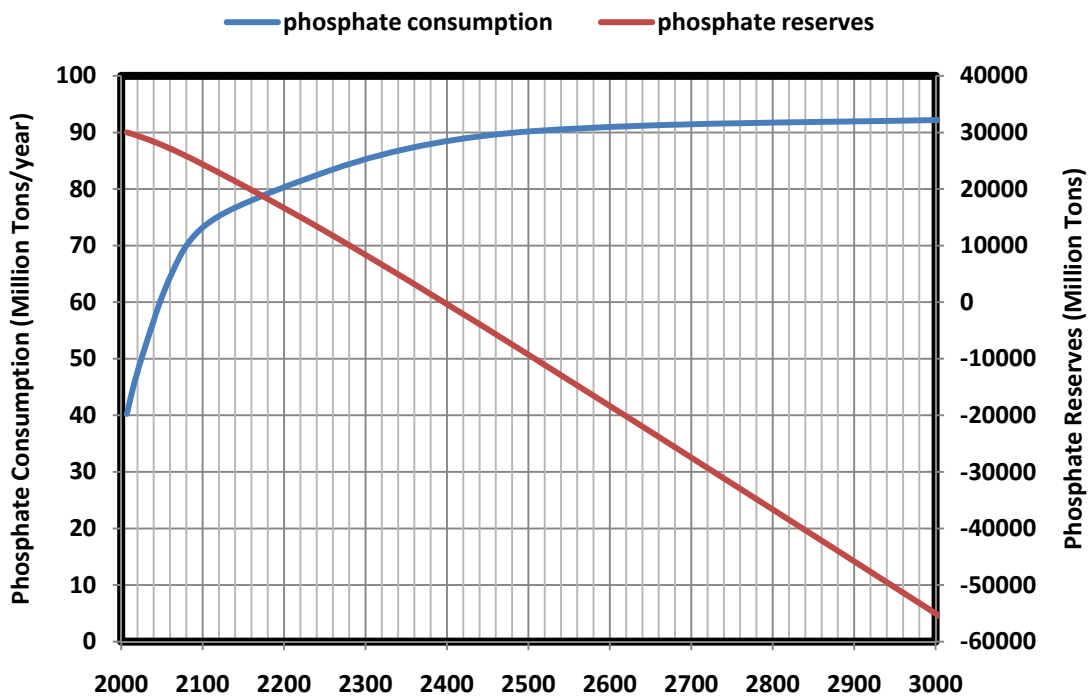


Fig.2.15: Oil Production (HJ/year) and Oil Reserves (HJ) - Business-as-usual Case

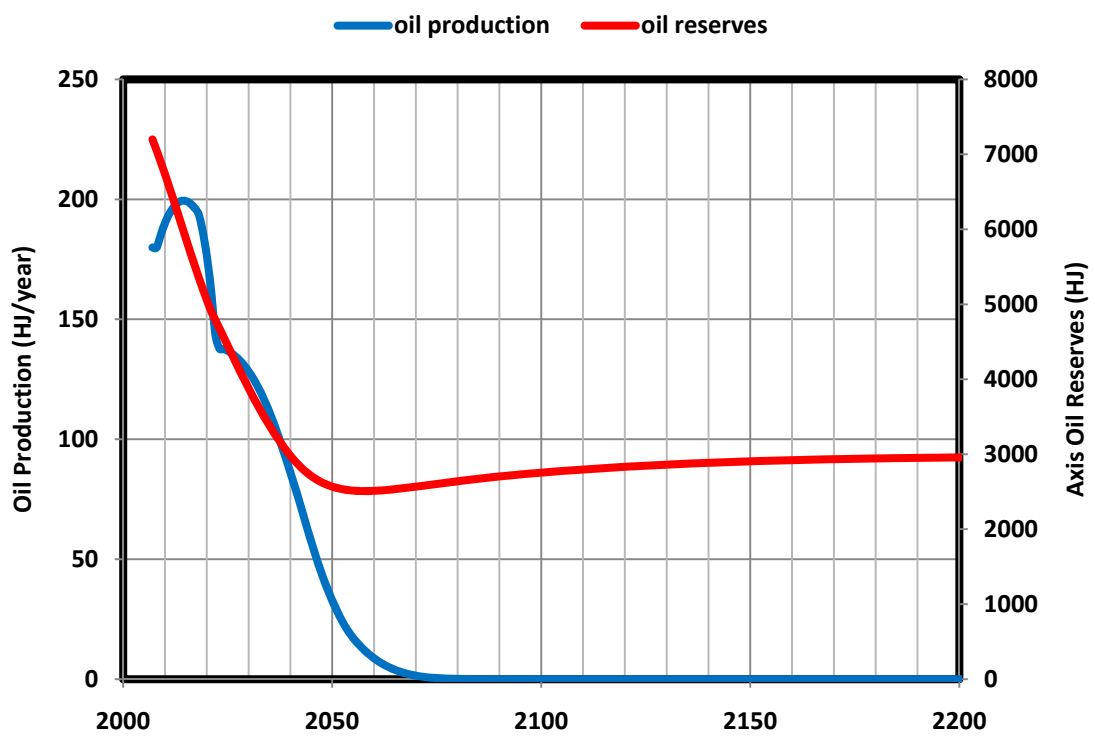


Fig.2.16: Gas production (HJ/year) and gas reserves (HJ) - Reference Case

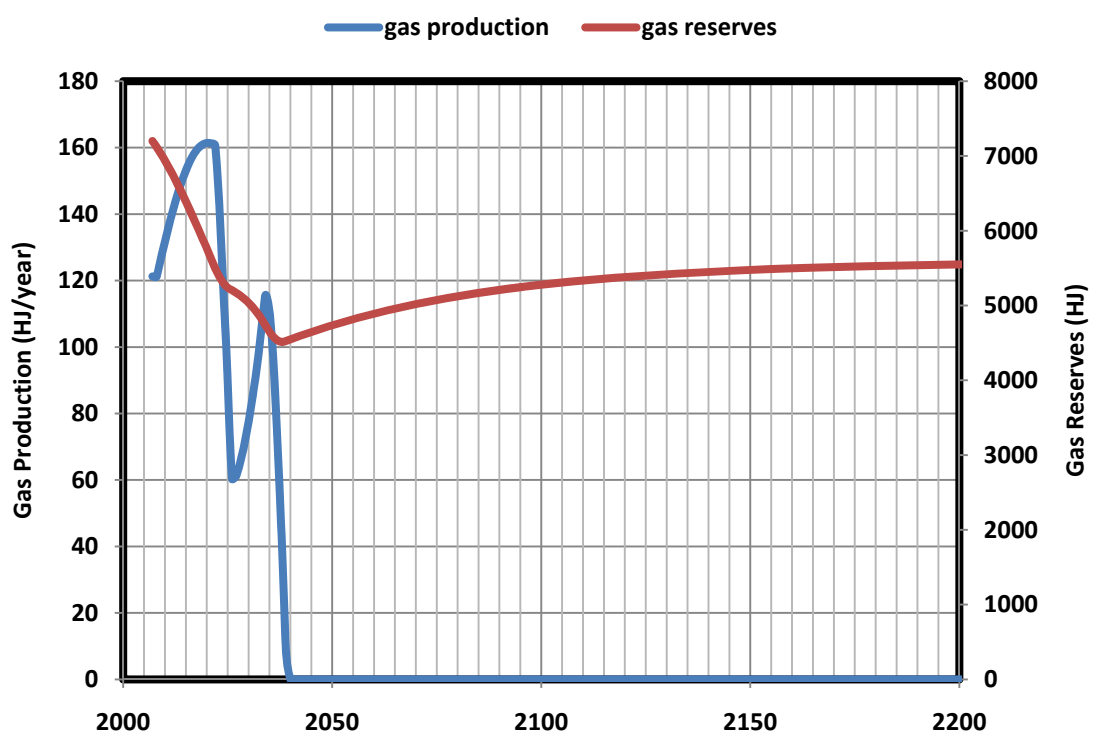


Fig.2.17: Coal Production (HJ/year) and Coal Reserves (HJ) - Reference Case

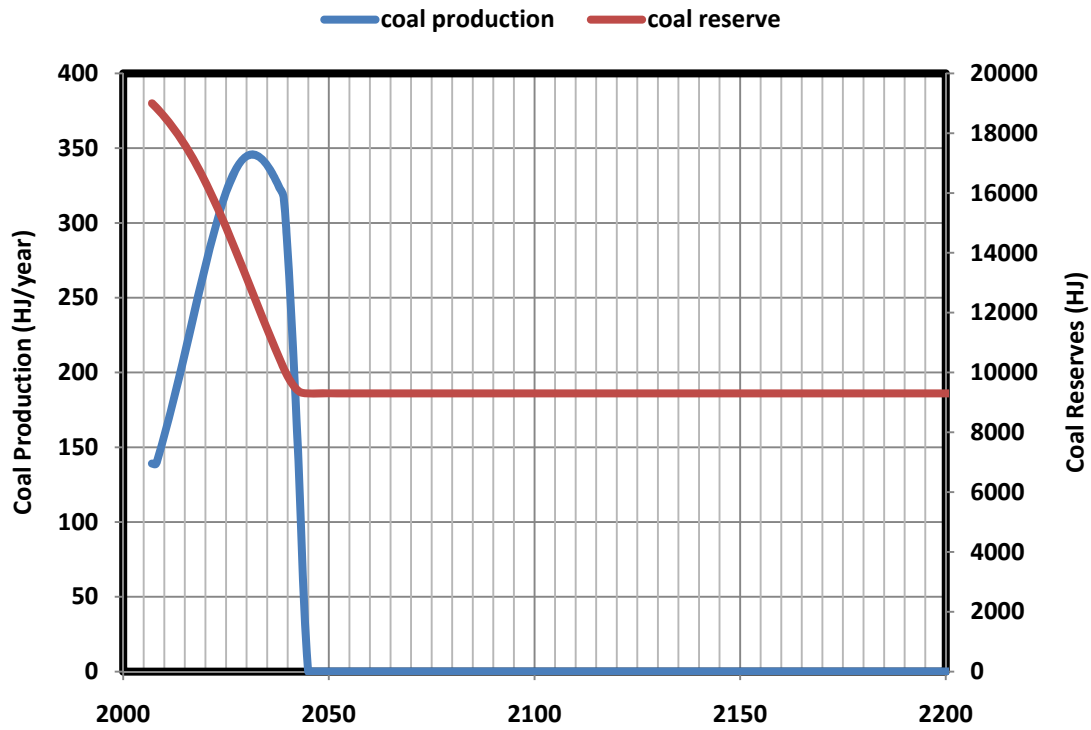


Fig. 2.18: Air Transportation Biofuels (HJ/year) - Reference Case

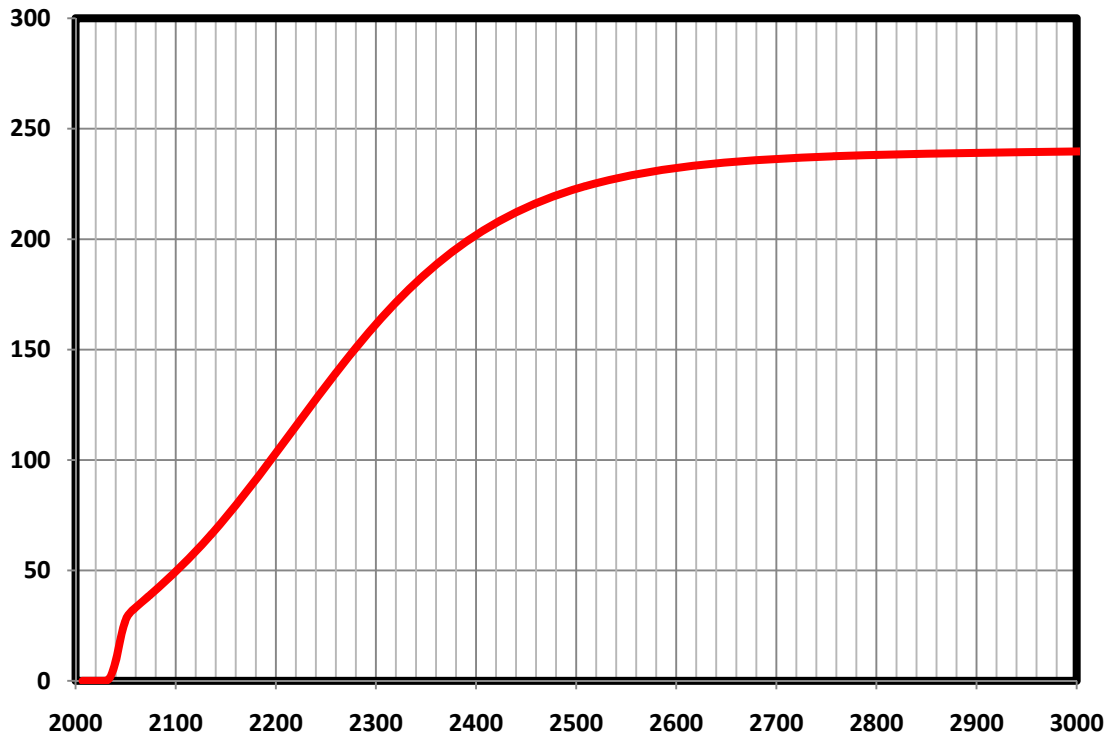


Fig. 2.19: Nuclear Power Production(HJ/year) and Fissile Reserves(HJ) - Reference Case

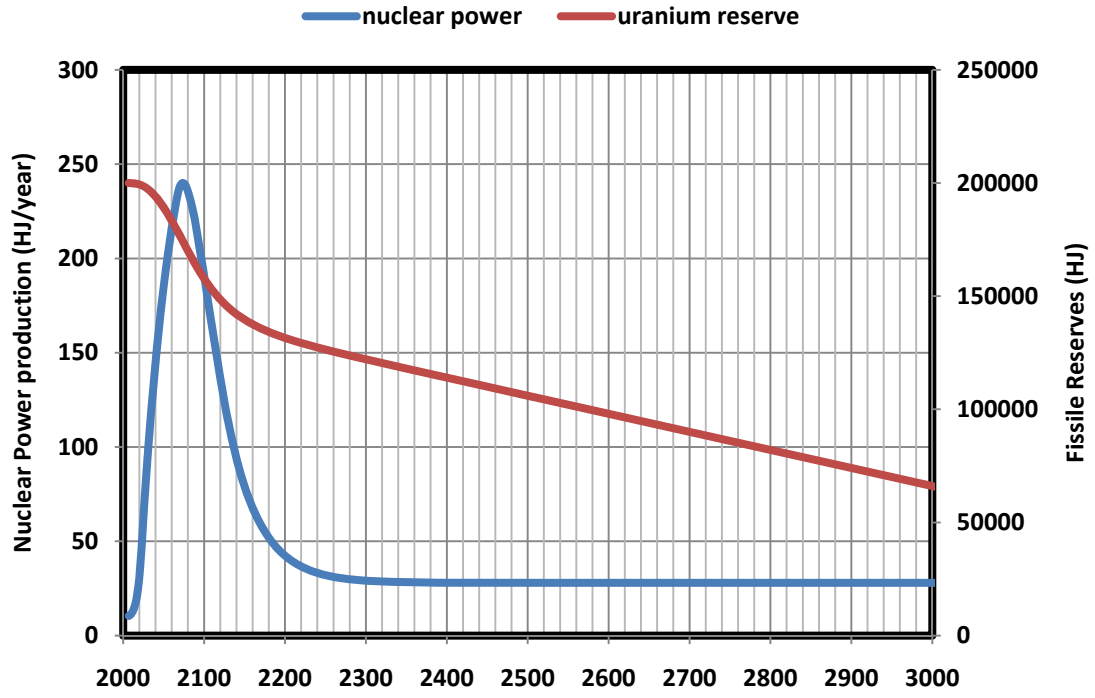


Fig. 2.20: Nuclear and Solar Power Production (HJ/year) - Reference Case

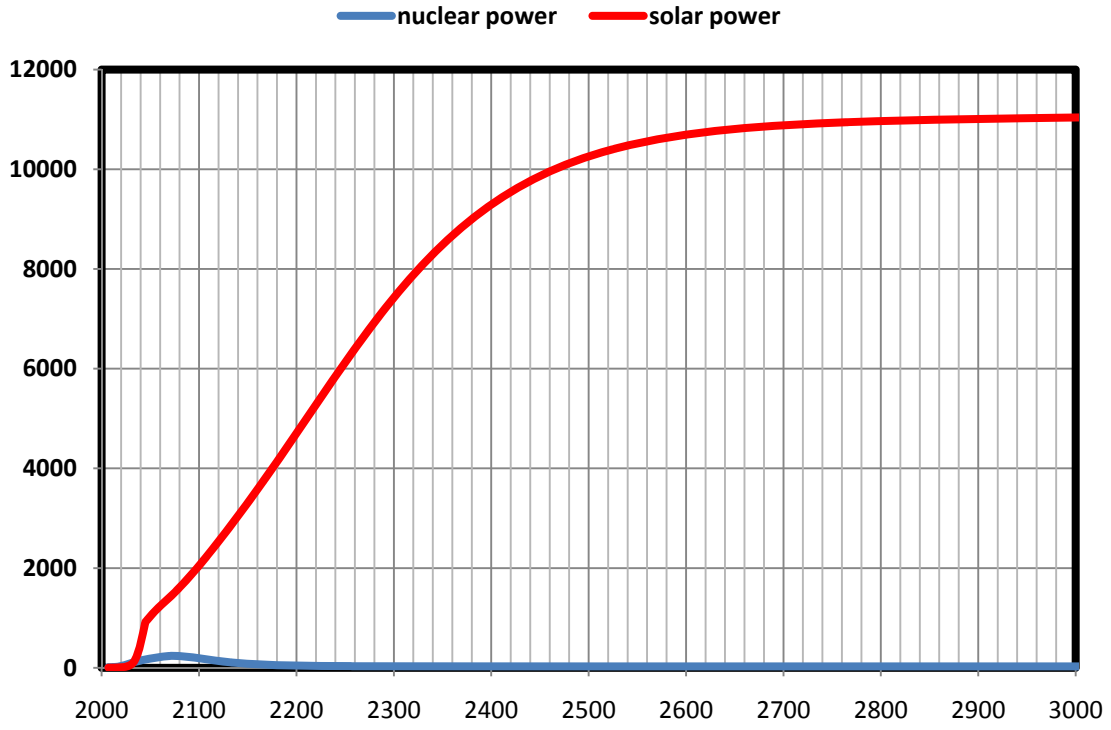


Fig. 2.21: Land Requirements (Billion hectares) - Reference Case

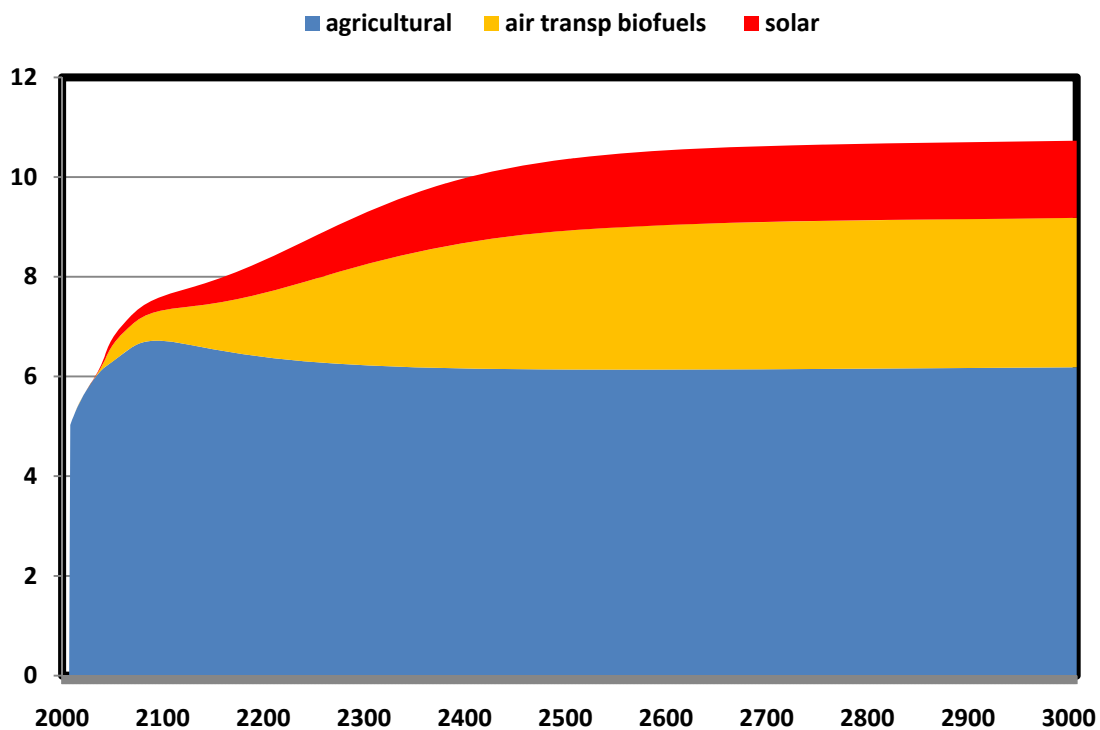
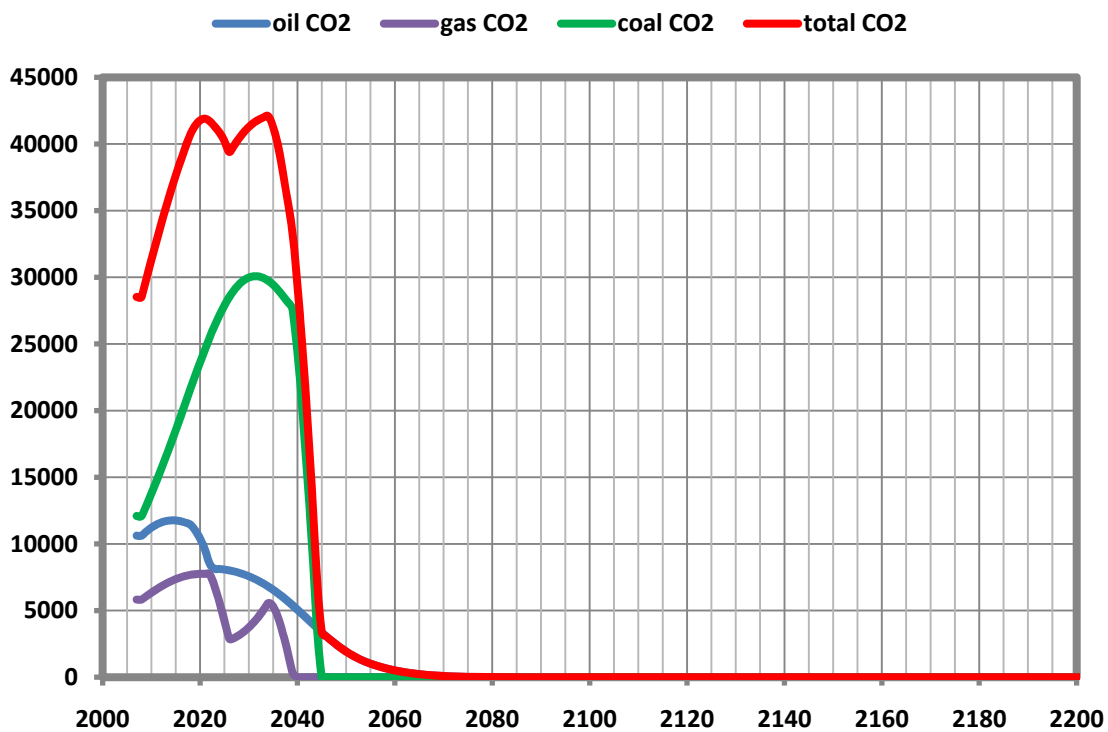
Fig. 2.22: CO₂ Emissions from the Various Fuels (Mt/year)- Reference Case

Fig. 2.23: Total vs Released CO2 with Sequestration (Mt/year) - Reference case

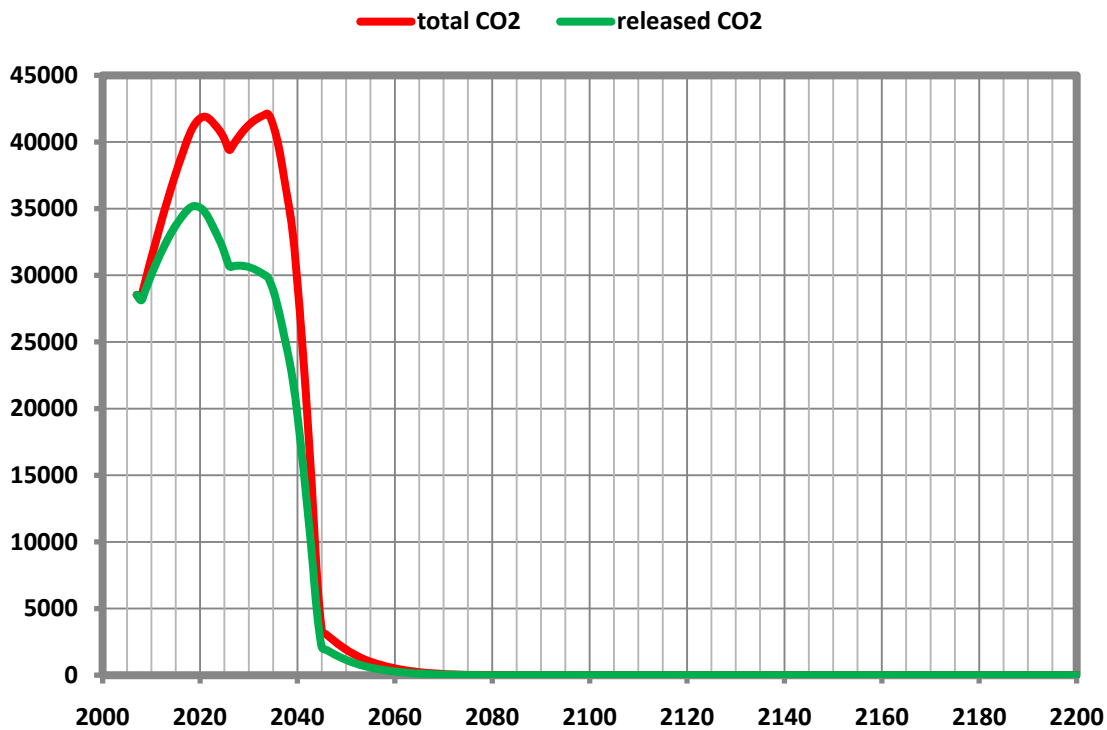


Fig. 2.24: CO2 Concentration (ppm)- Reference Case

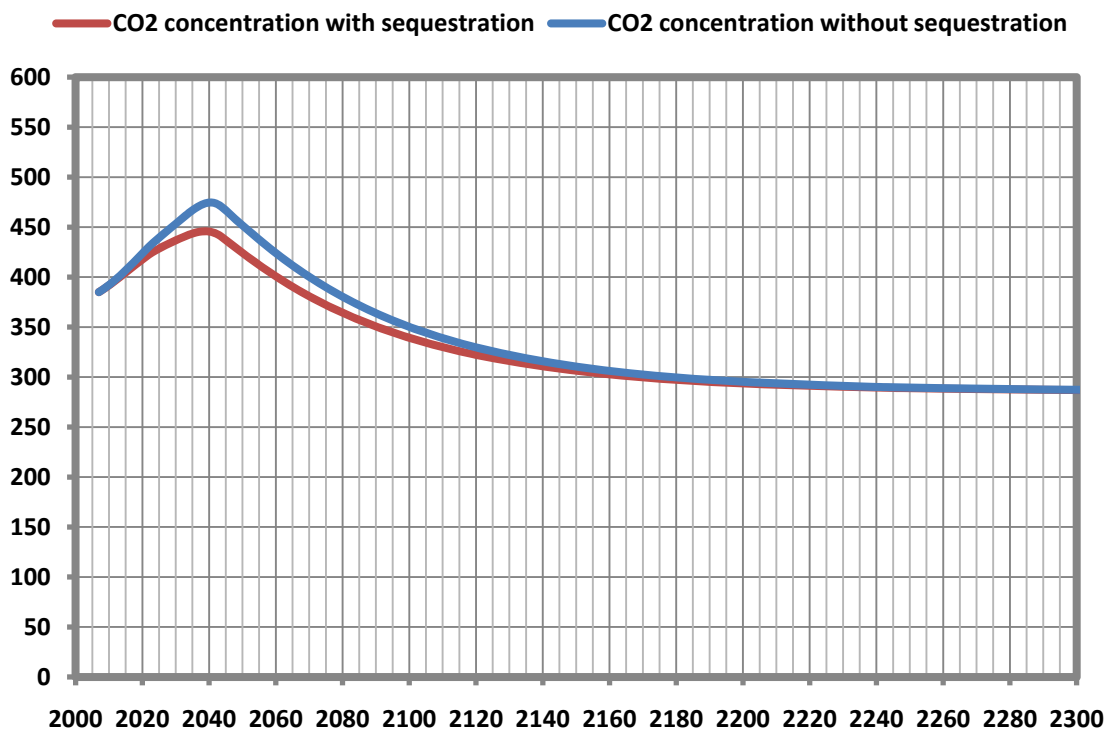


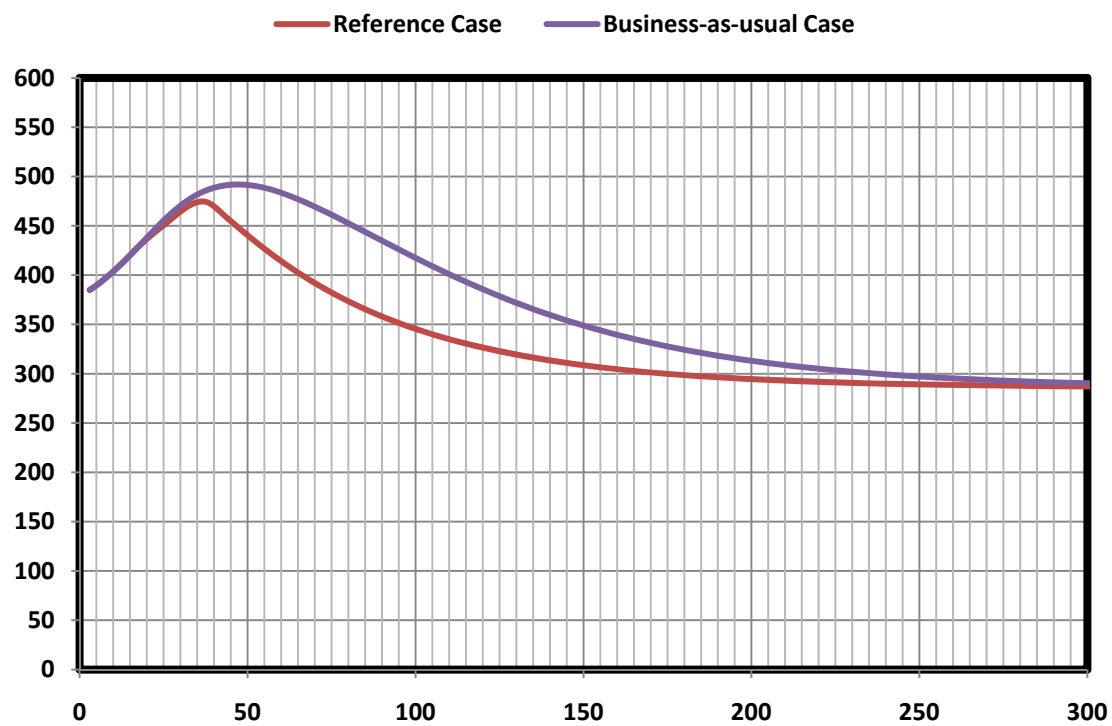
Fig. 2.25: CO2 Concentration without sequestration (ppm)

Fig. 3.1: Fertility Rate (Children/Woman)

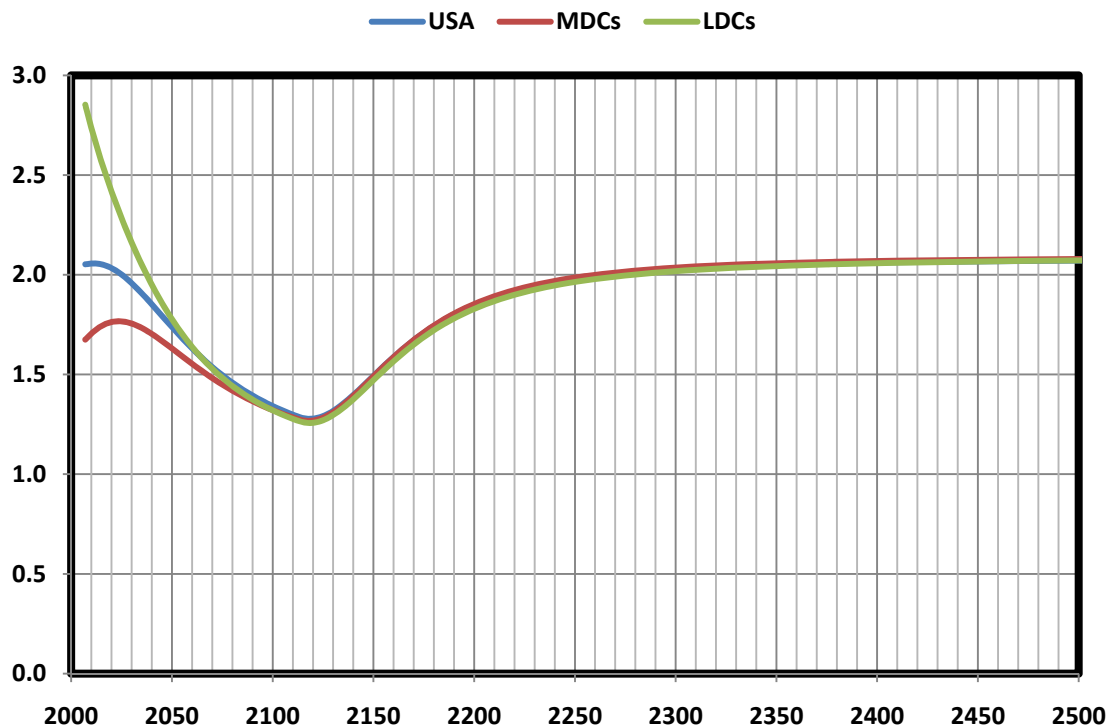


Fig. 3.2: Population Projection - Proposal Case (Billion Humans (GHu))

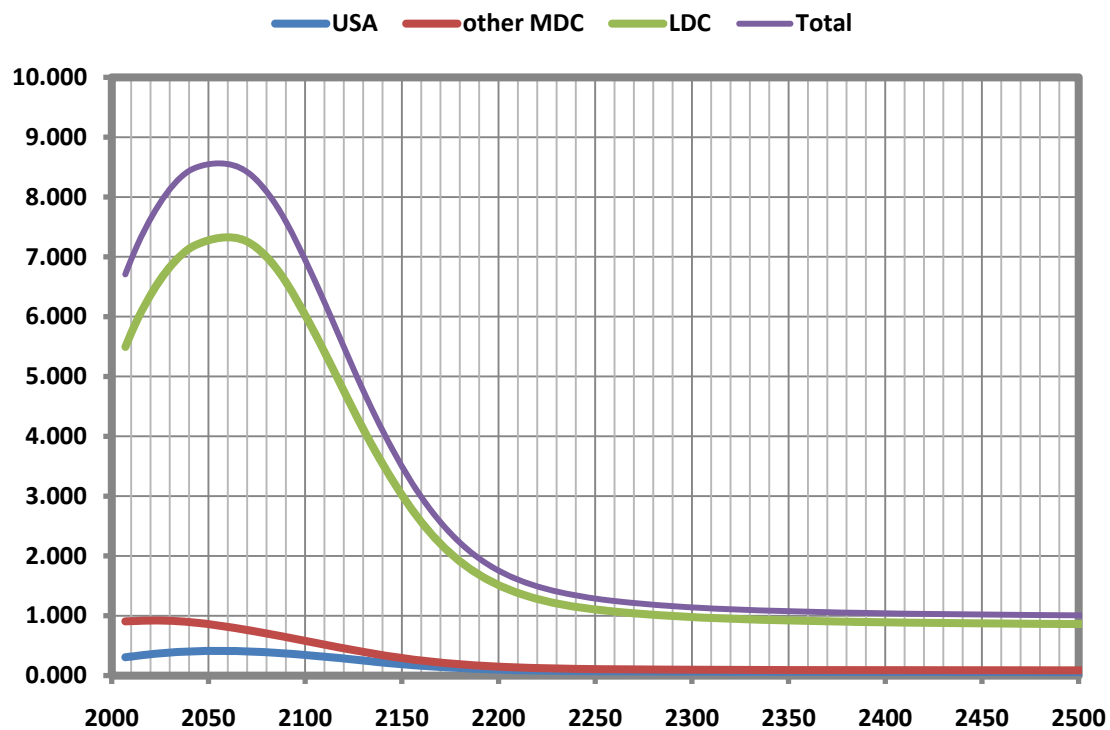


Fig. 3.3: Comparison of population trends (Billion humans (GHU))

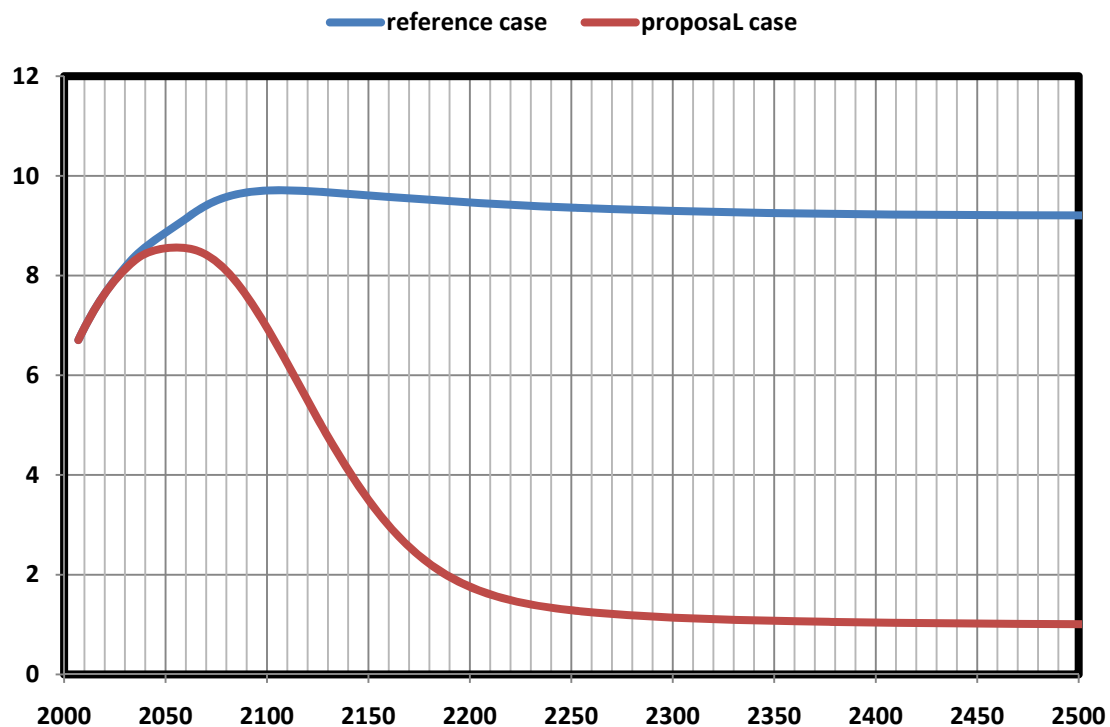


Fig. 3.4: GDP - Proposal case (Tera\$/year)

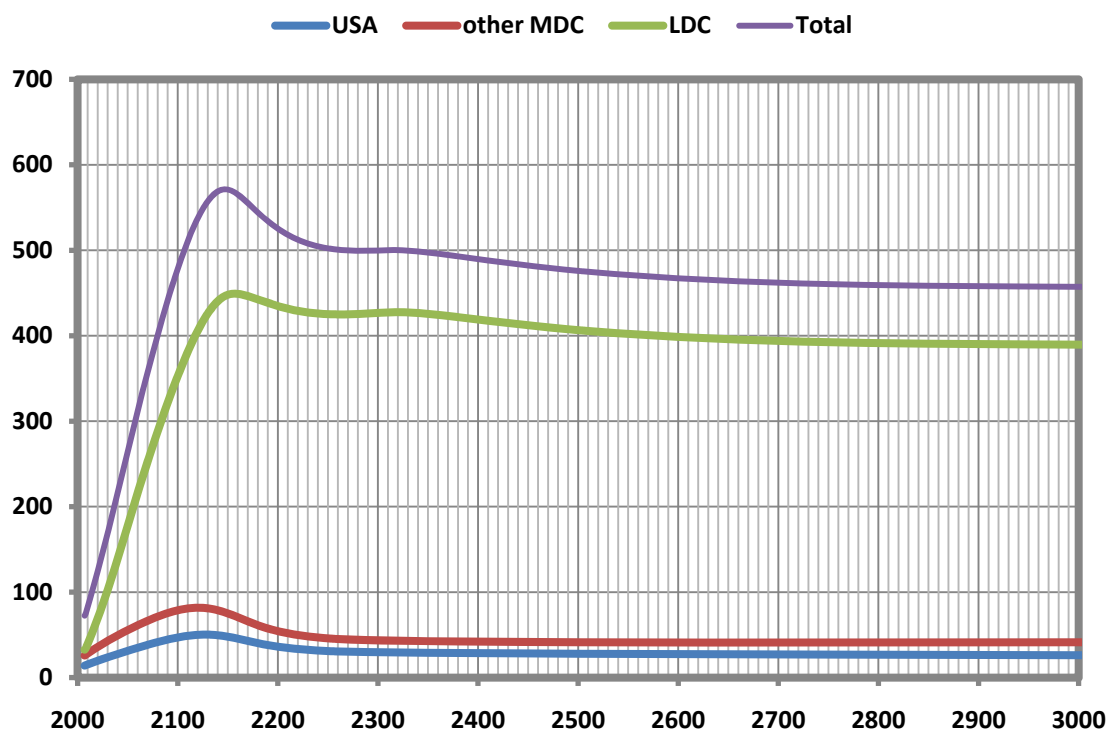


Fig. 3.5: Total GDP - Reference vs. Proposal Cases (Tera\$/year)

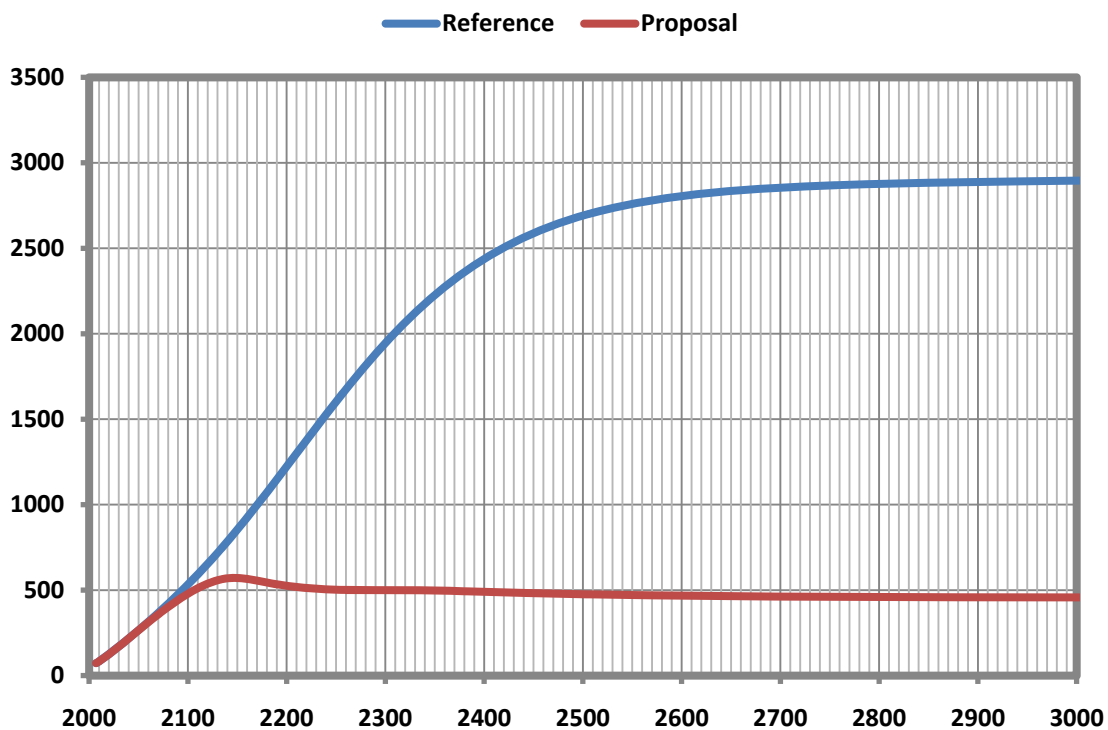


Fig. 3.6: Pro-capite Consumption - Proposal case (K\$/human/year)

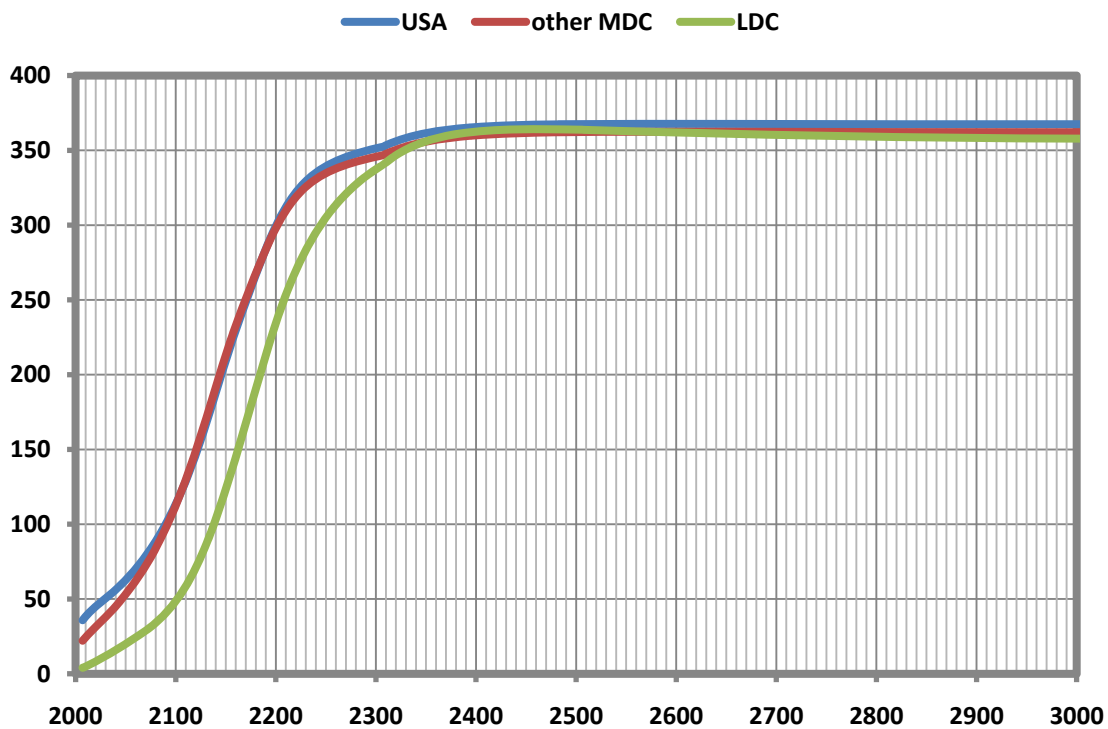


Fig. 3.7: USA Pro-capite Consumption - Reference and Proposal cases
(K\$/human/year)

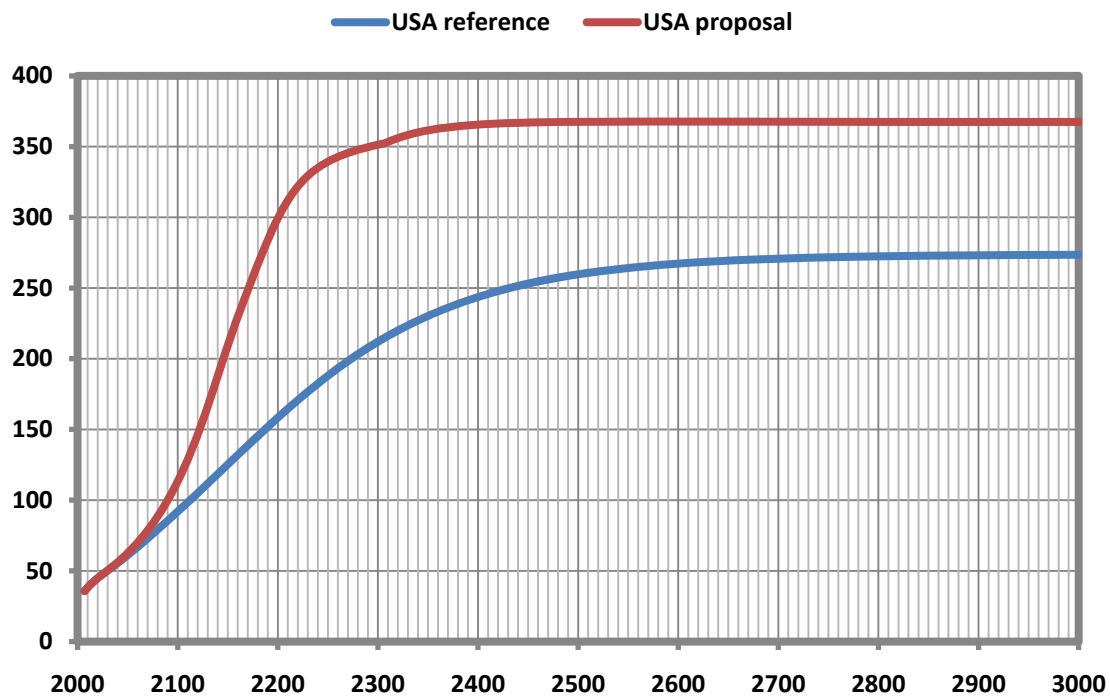


Fig. 3.8: LDCs to USA Pro-capite Consumption ratio

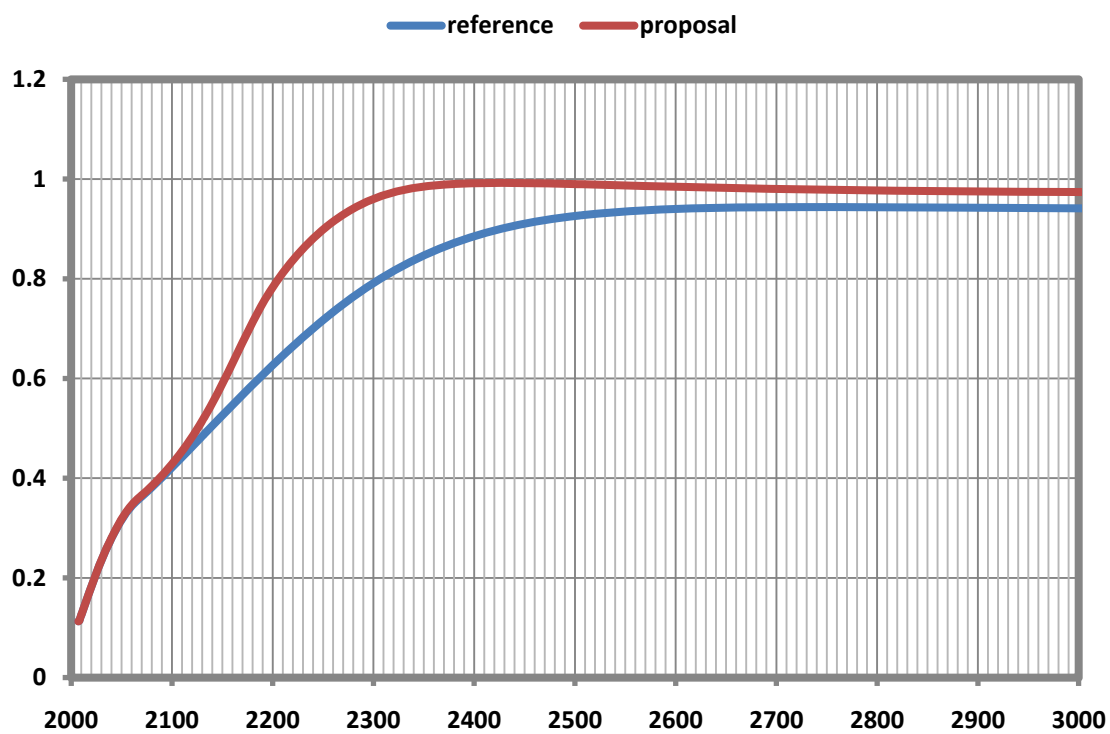


Fig. 3.9: Energy Use (HJ/year) - Proposal Case

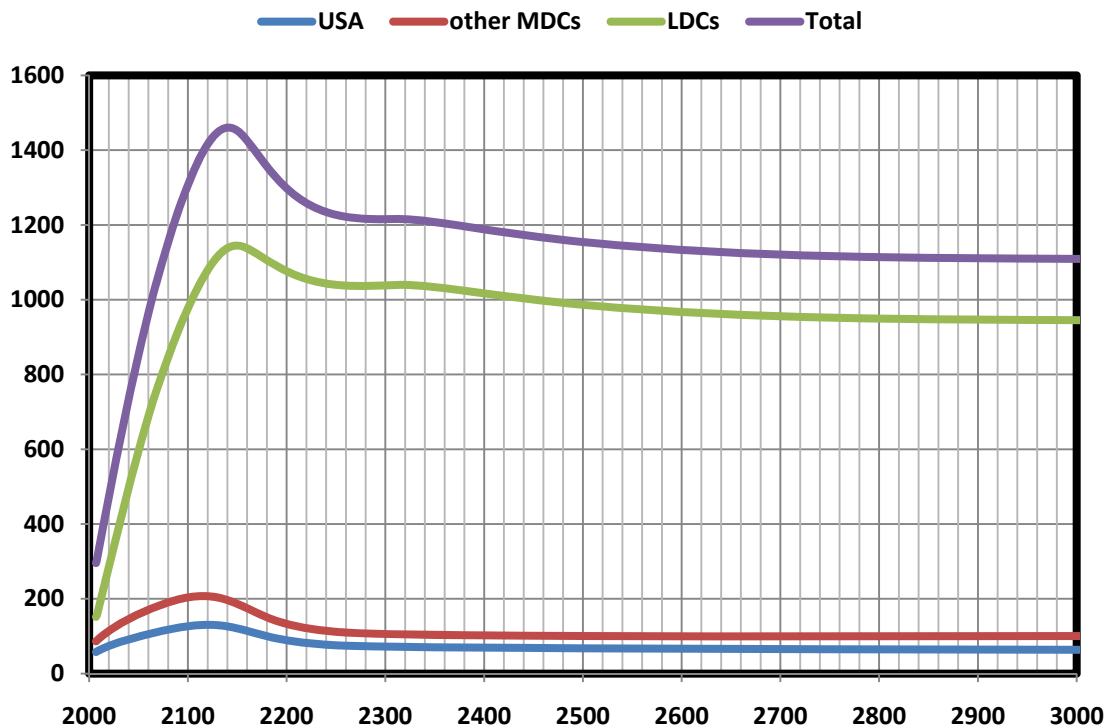


Fig. 3.10: Total Energy Use - Reference and Proposal Cases (HJ/year)

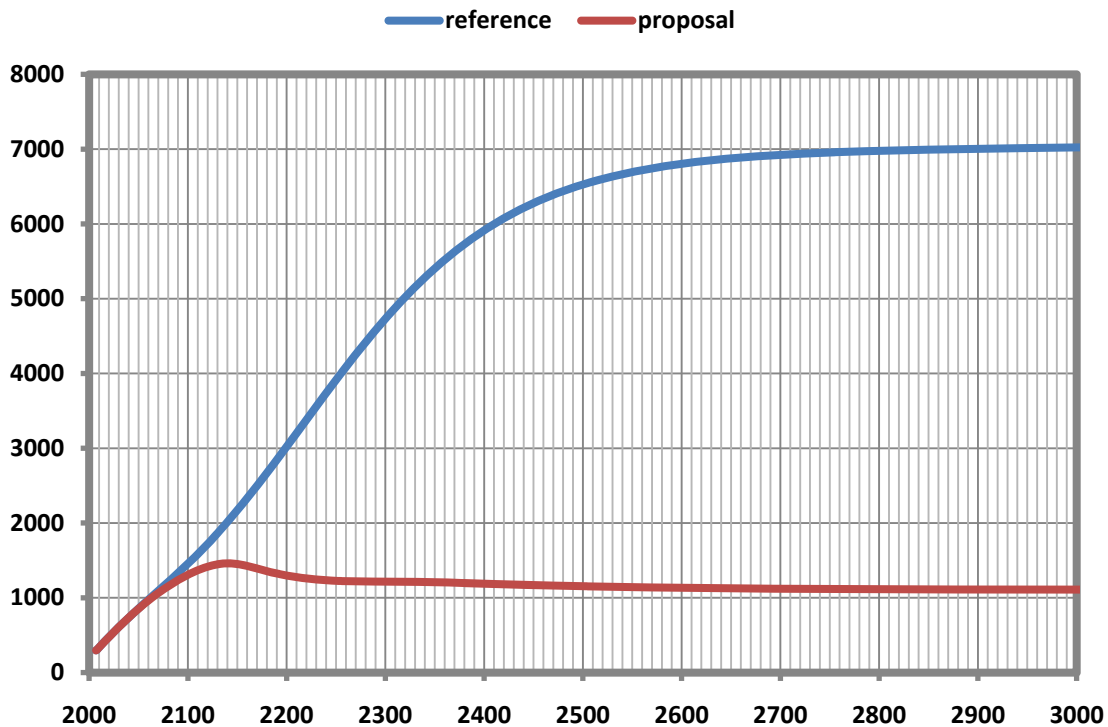


Fig.3.11: Transportation demand (HJ/year) - Proposal case

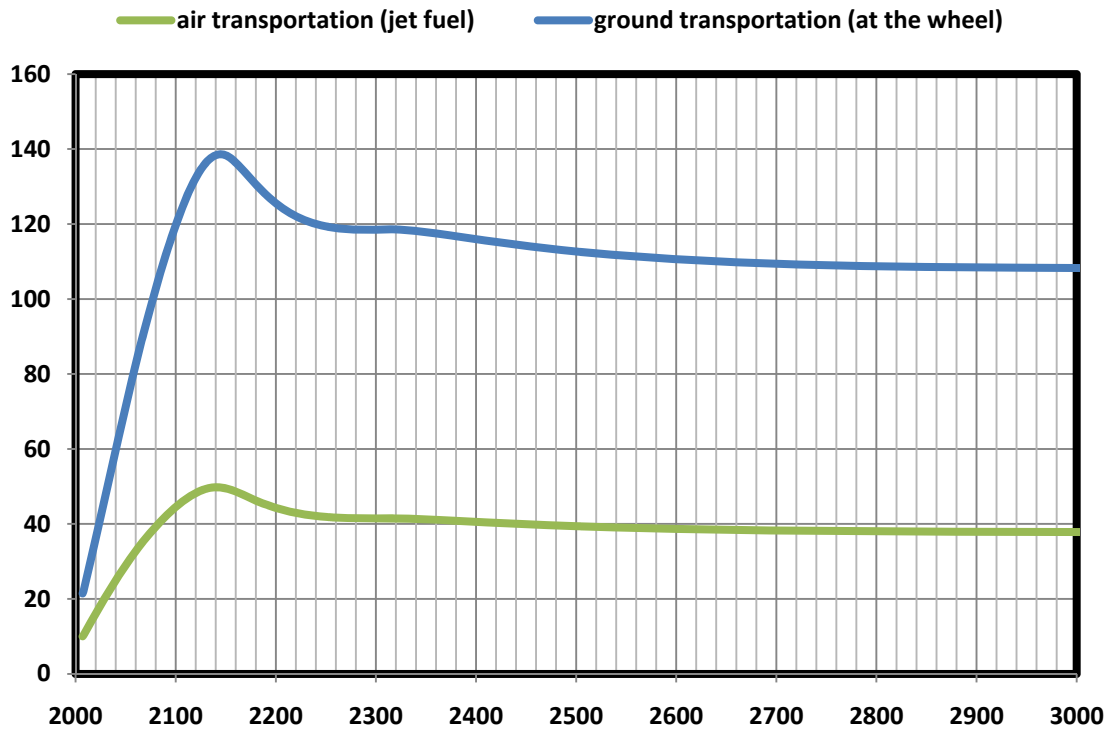


Fig. 3.12: Total Electricity Demand (HJ/year) - Proposal Case

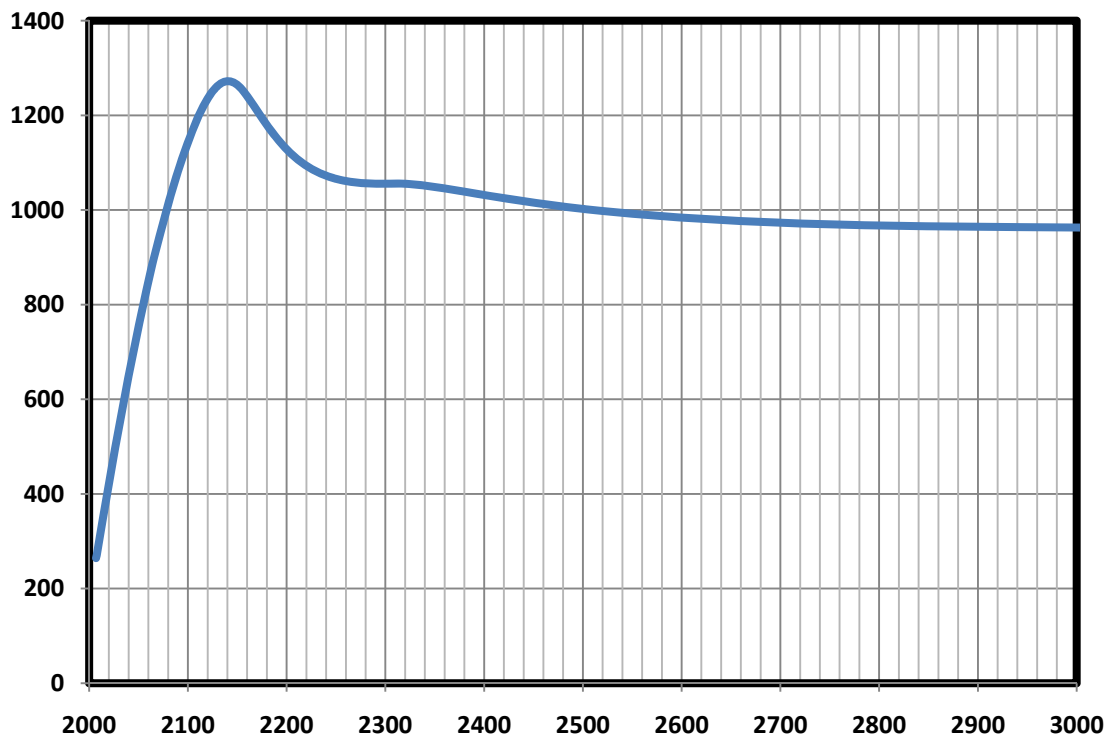


Fig. 3.13: Air Transportation Biofuels (HJ/year) - Proposal Case

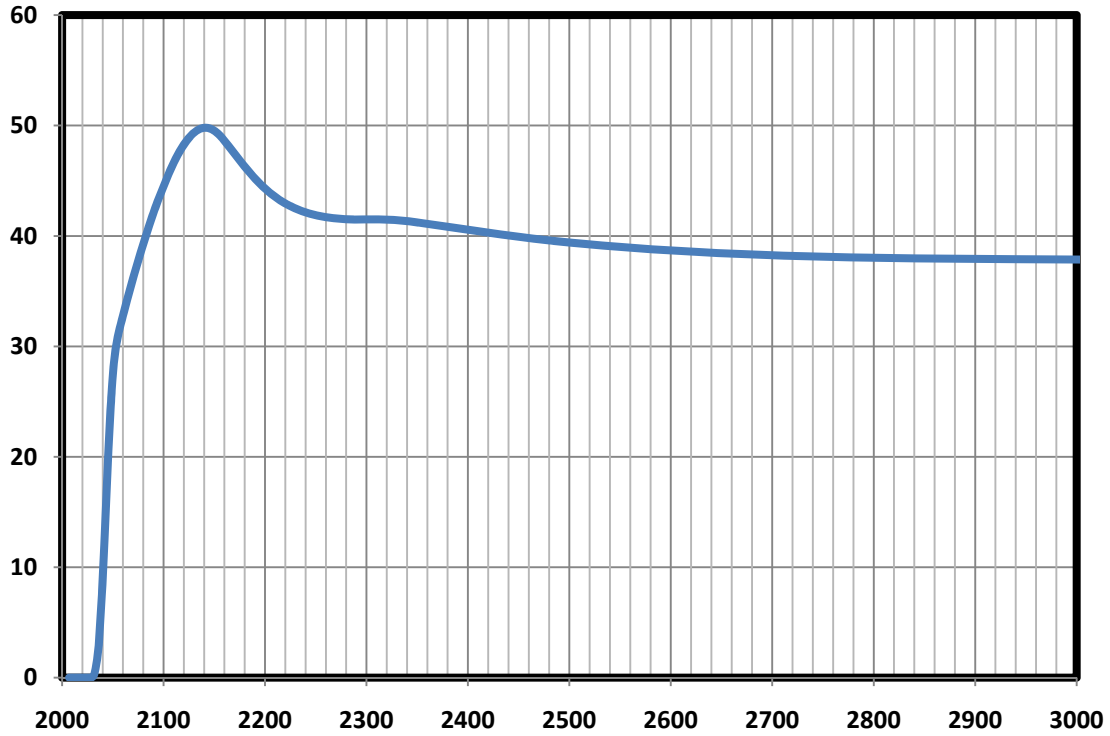


Fig. 3.14: Nuclear Power production (HJ/year) and Fissile Reserves (HJ) - Proposal Case

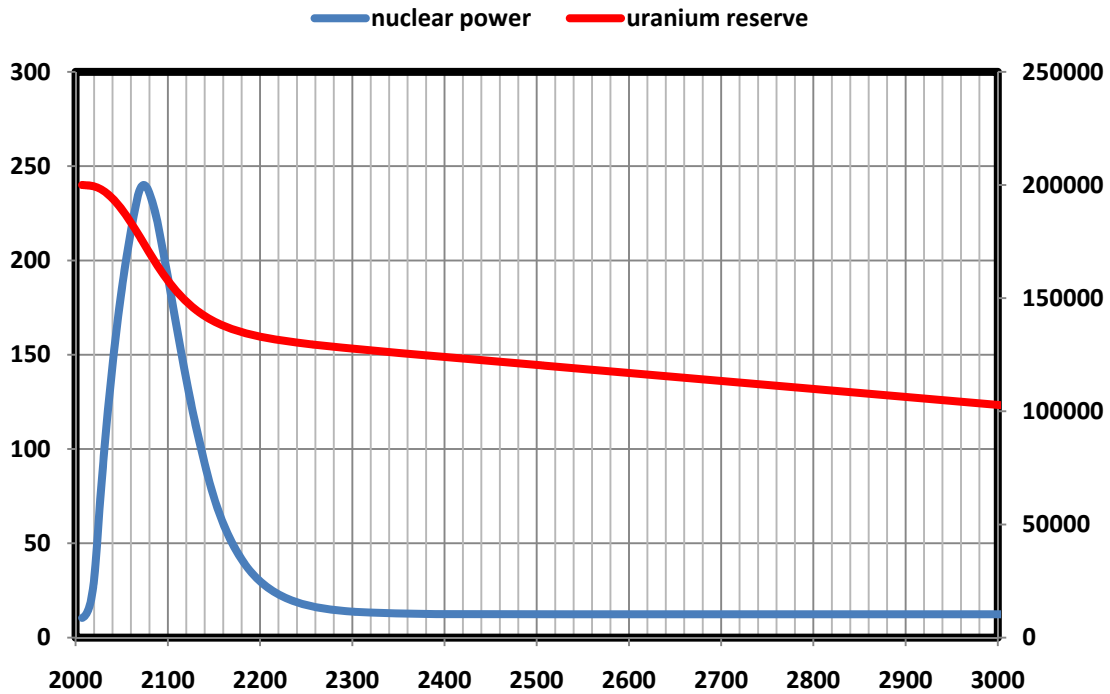


Fig. 3.15: Nuclear and Solar Power Production - Proposal Case

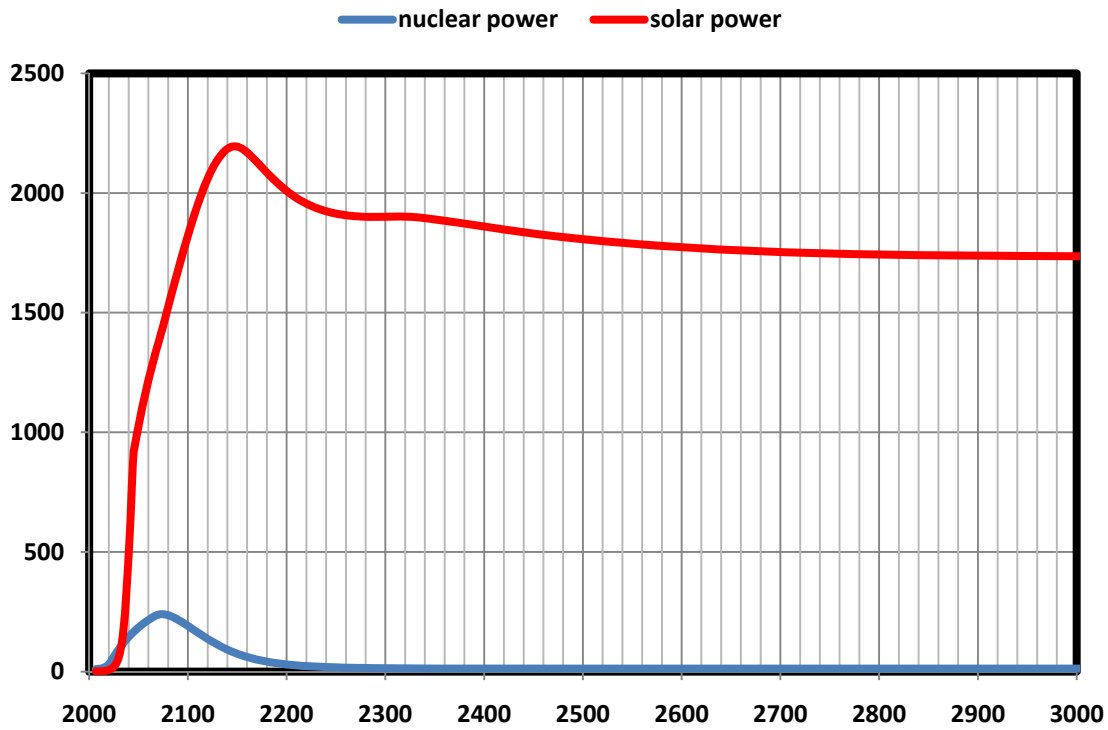


Fig. 3.16: Land Requirements (Billion Hectares) - Proposal Case

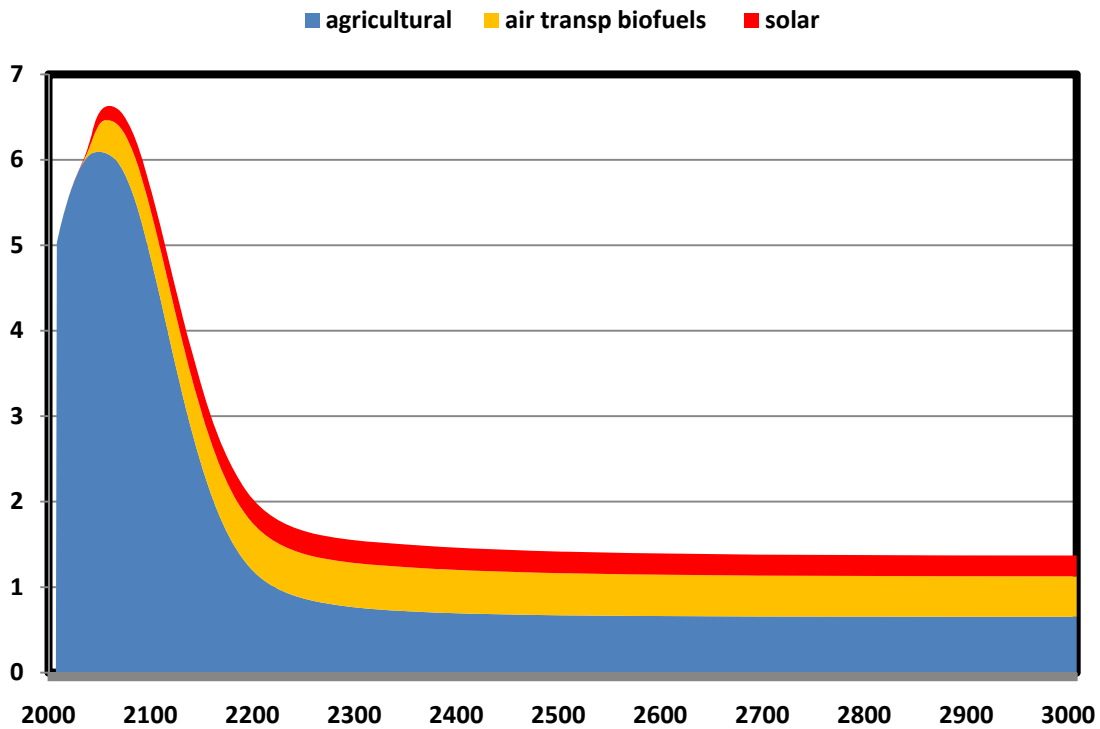


Fig. 3.17: Phosphate Consumption and Reserves - Proposal Case

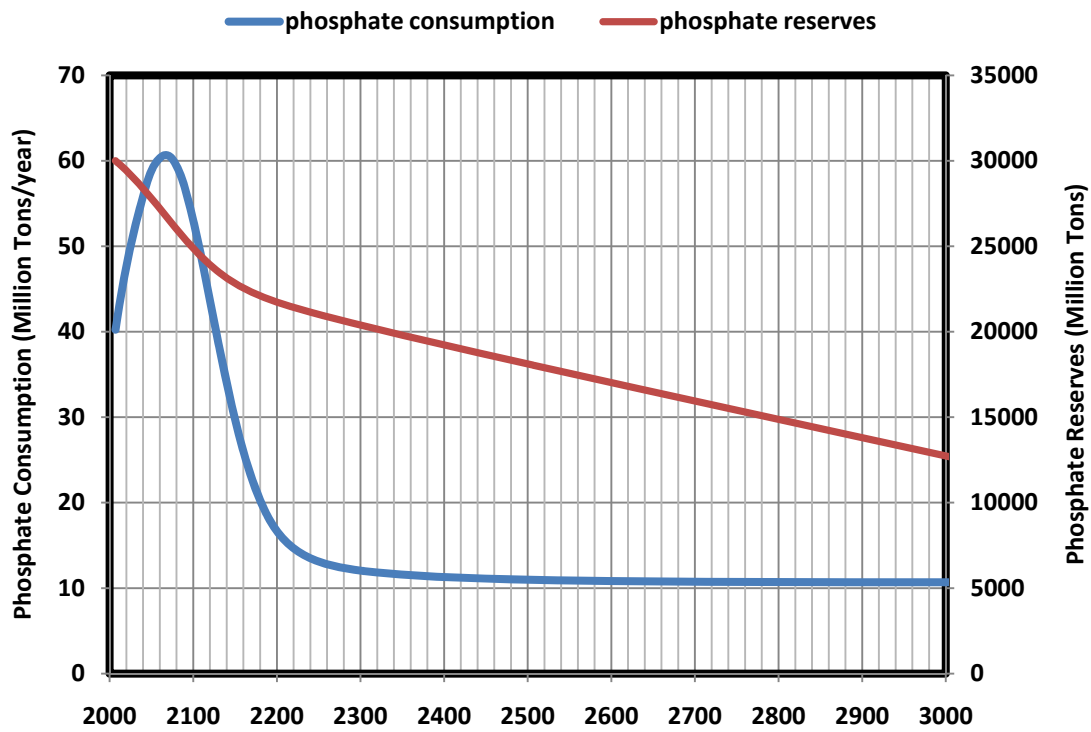


Fig. 3.18: Total Population to Workers Ratio - Reference Case

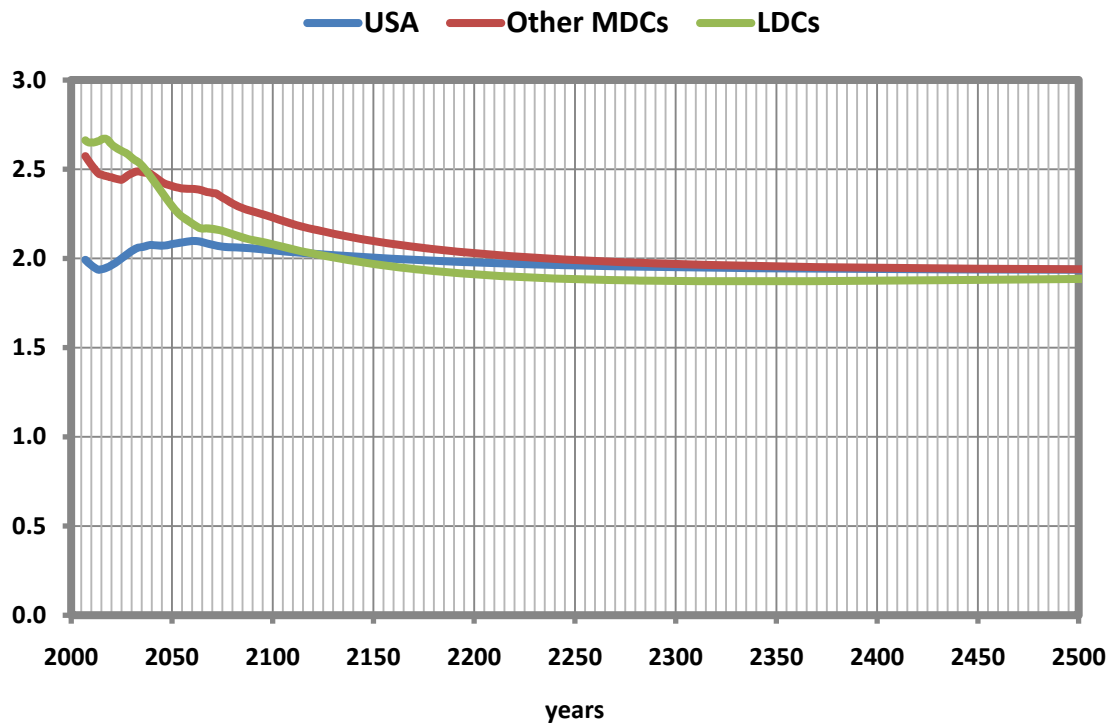


Fig. 3.19: Total Population to Workers Ratio - Proposal Case

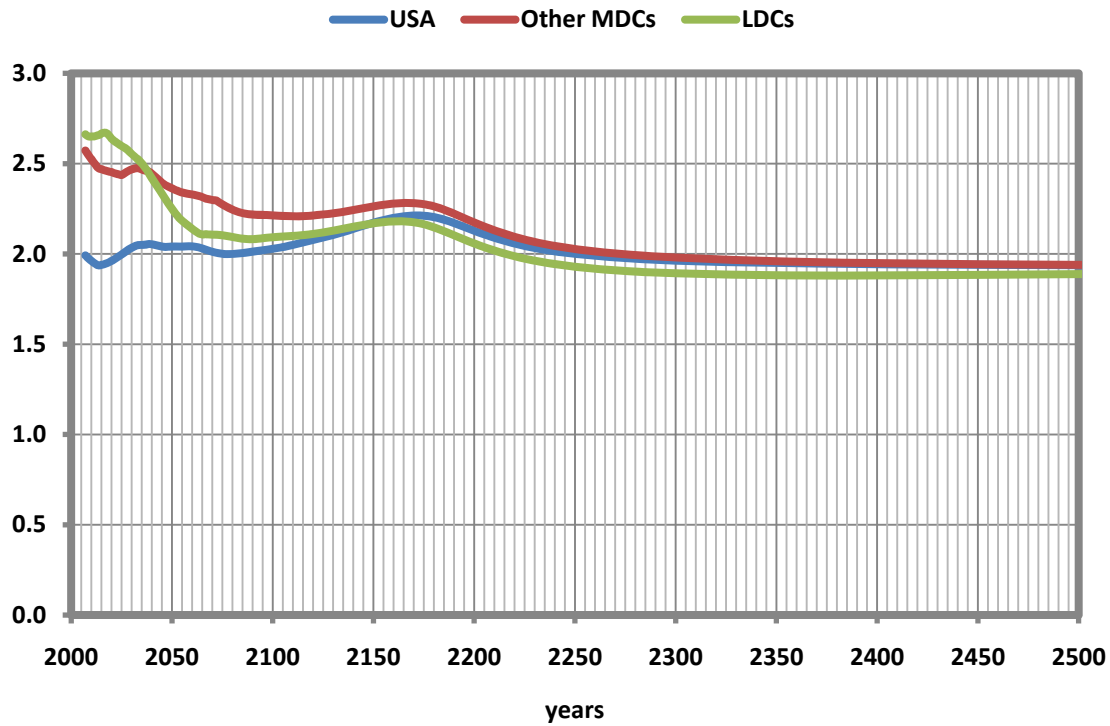


Fig. 3.20: Percentages of various population segments - Proposal Case

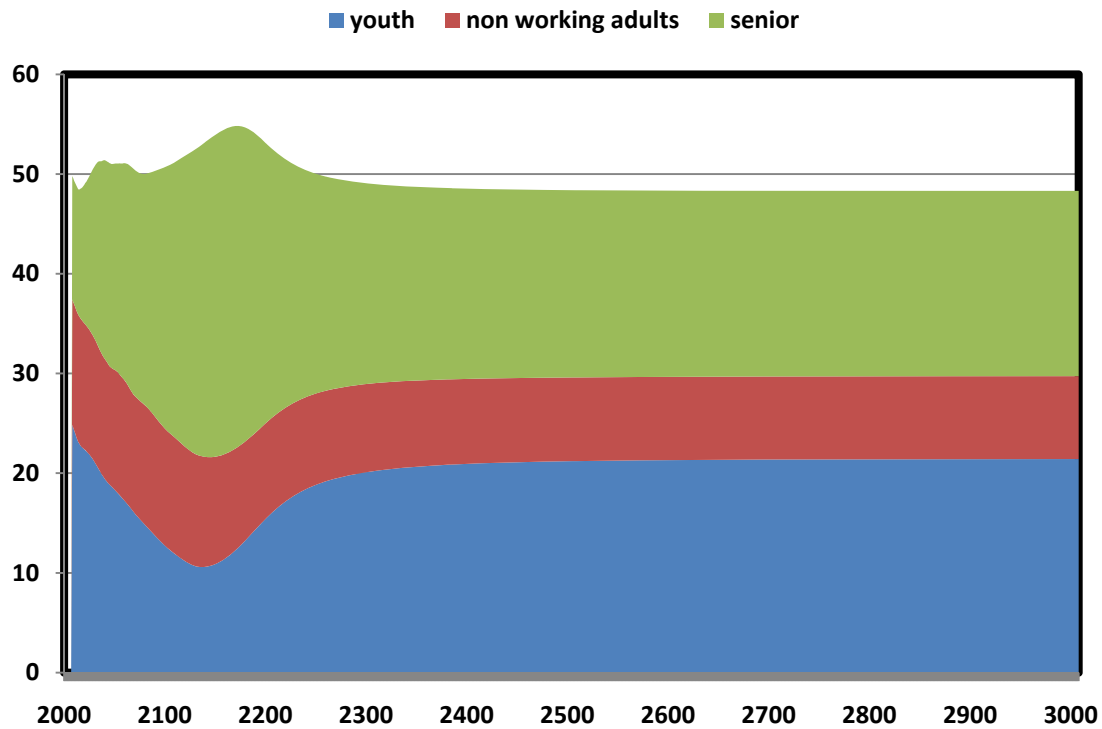


Fig. 5.1: USA population age distribution (2007)

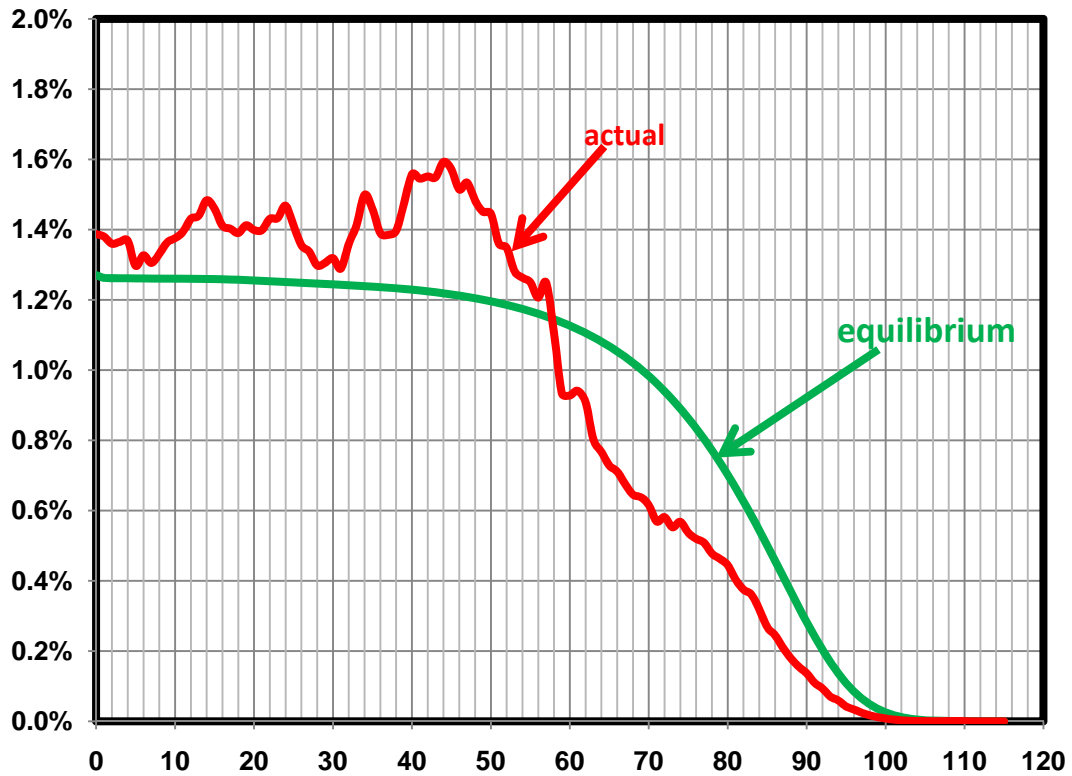
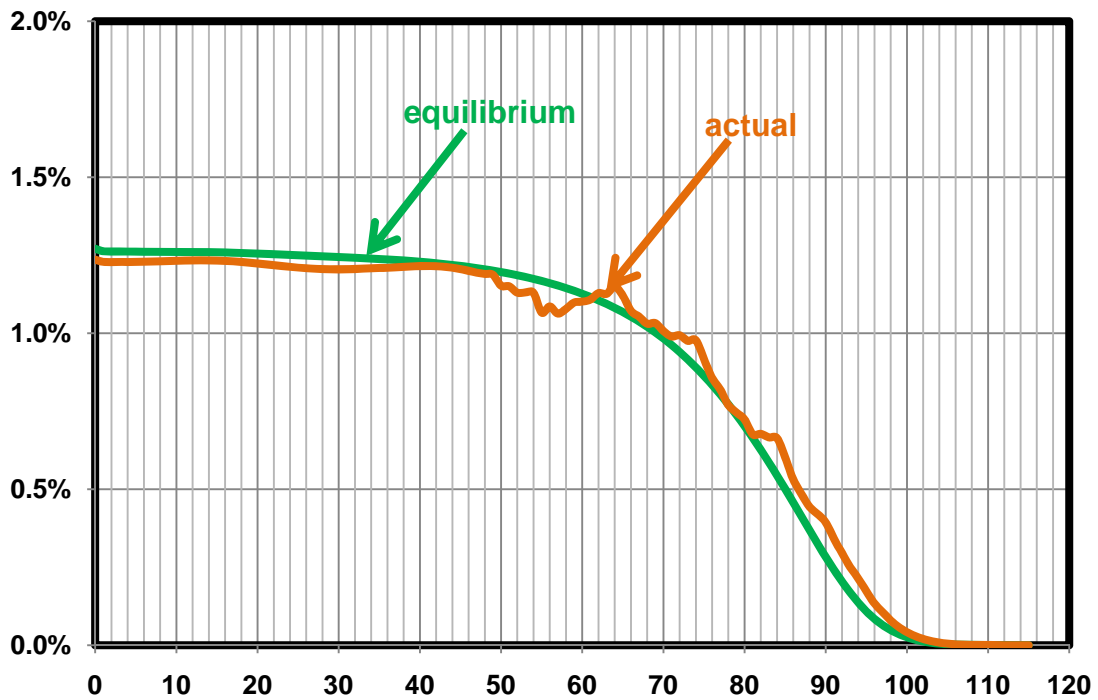
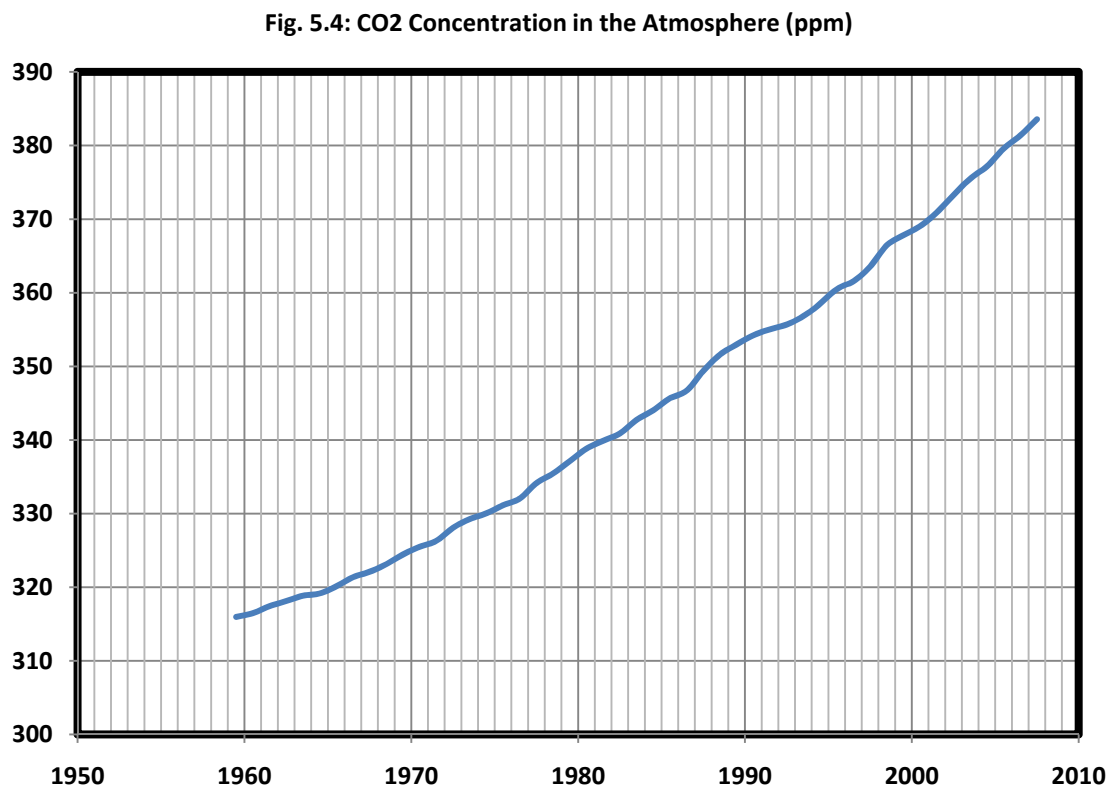
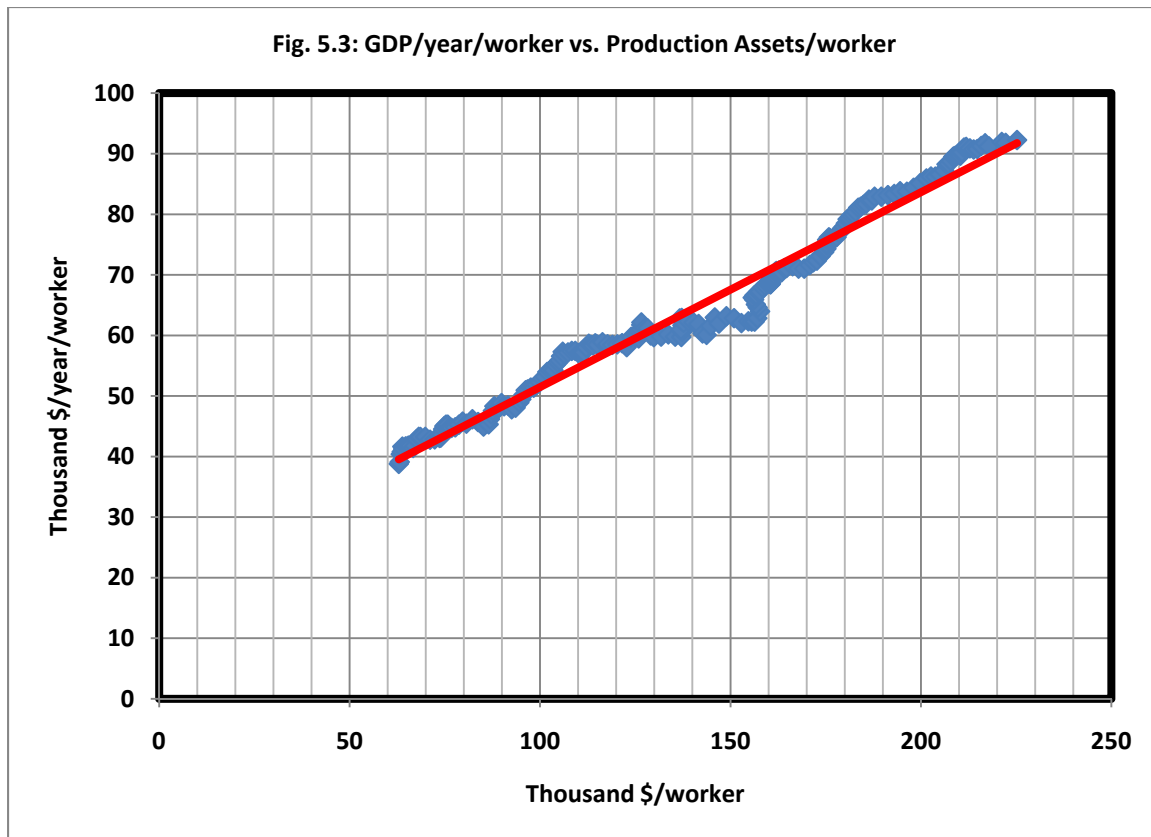


Fig. 5.2 : USA population age distribution (2057)





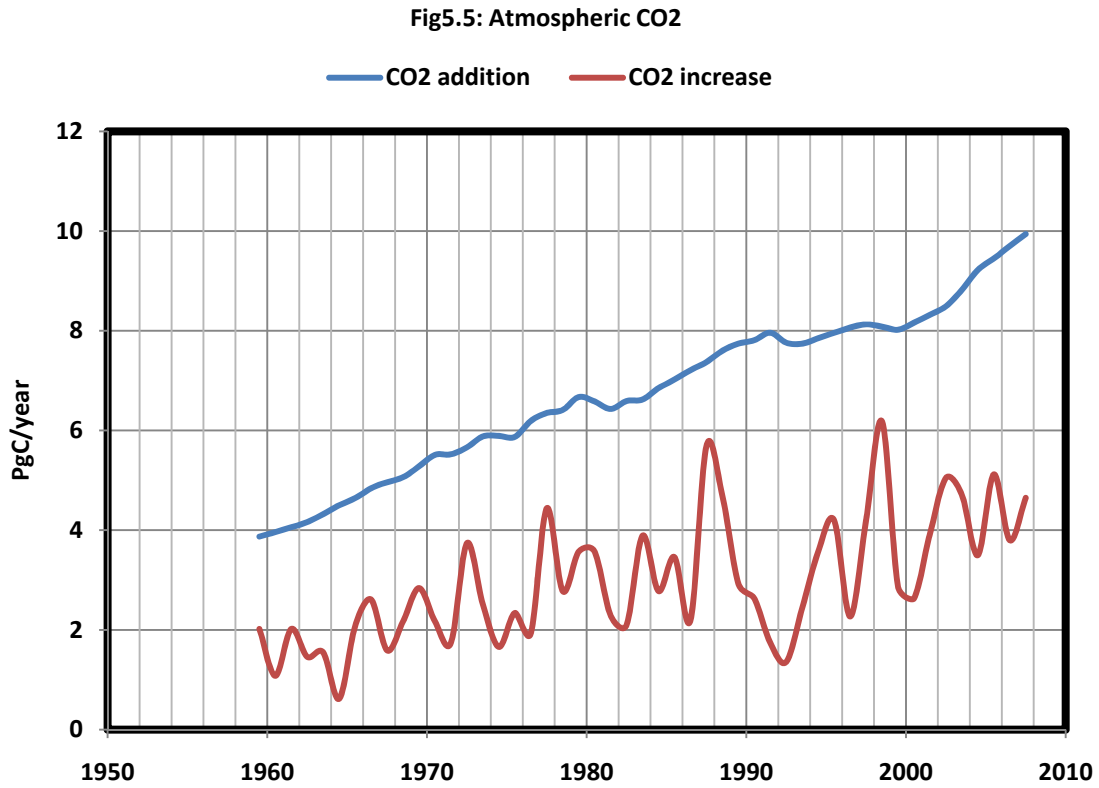


Fig. 5.6: CO2 Concentration in the Atmosphere (ppm)

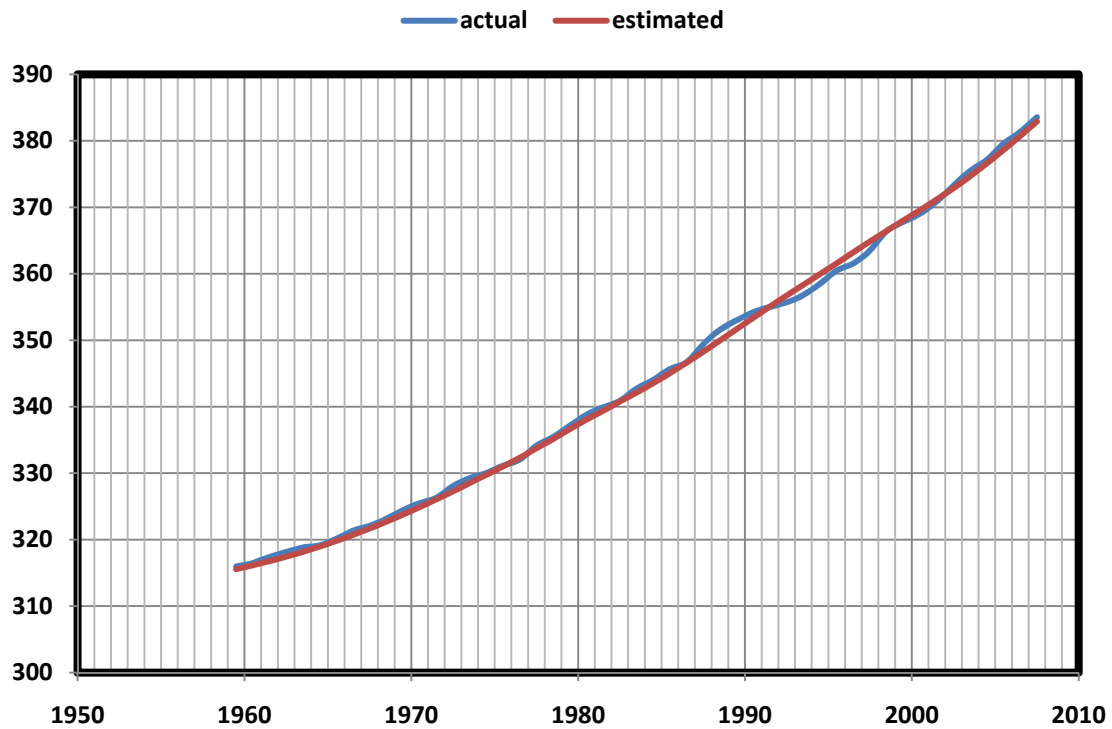


Fig. 6.7: Combined Ocean and Land Net Uptake (PgC/year)

