Education Graduates Primary Education Graduates Tertiary Education Graduates lonenergy Crops Production Biomass Energy Production olar Energy Production **Energy Production** Radiative Forcing Urban Industrial Land CO2 Emissions ivestock Production Population per Capita nergy Demand Croplands Production Production Oil Production asture Land Forest Land otal otal Coal Normal Fertility Life Expectancy Normal Birth Gender Fraction PersistenceSec Fraction Capital Elasticity Output PersistenceTer Fraction Reference Daily Caloric Intake **Labor Force Participation Fraction Diet Composition** 9 7 Waste Fraction PlantFood Other Technology Inflection Point Reference Input Neutral TC in Agriculture Max Energy Demand per Capita Tertiary Education Percentage m Secondary Education Percentage m Renewable Installation Technology Development Time Tertiary Education Percentage f Secondary Education Percentage f Primary Education Percentage m Primary Education Percentage f Feed Share of Grains Reference meat yield **CCS Scenario** Other Technology Steepness Final Change Rate Renewable Final Investment Fraction Reference Change in Fossil Fuel Market Share Price Elasticity of Demand Coal 15 11 12 8 18 5 Price Elasticity of Demand Oil Reference Change in Market Share Solar Price Elasticity of Demand Gas Price Elasticity of Demand Wind and Solar Solar Conversion Efficiency Factor Final Change Rate 12 Renewable Cost Reduction and Technology Improvement Ramp Period Reference Cost of Solar Energy Production Final Change Rate 13 Reference Change in Market Share Wind Annual Growth in Gas Reserves 16 Fraction for Wind and Solar Learning Curve Strength Reference Change in Market Share Biomass Reference Cost of Biomass Energy Production Final Change Rate **Price Elasticity of Demand Biomass** Annual Change in Oil Reserves Relative Productivity of Investment in Oil Exploration Fraction of Oil Revenues Invested in Technology Effectiveness of Investment in Oil Recovery Technology Relative Productivity of Investment in Fossil Fuel Production Compared to Exploration Relative Productivity of Investment in Gas Exploration Investment in Fossil Fuel Exploration and Production Delay Fraction of Gas Revenues Invested in Technology 15 Effectiveness of Investment in Gas Recovery Technology Fraction of Coal Revenues Invested in Technology 12 Effectiveness of Investment in Coal Recovery Technology 17 Relative Productivity of Investment in Coal Exploration **Undiscovered Coal Resources** Forest to Agriculture Land Allocation Time Effect of GDP on Urban Land Requirement I 11 Fraction of Agricultural Land Conversion from Forest 12 14 Fraction of Urban Land Conversion from Agriculture Waste Fraction PasMeat CropMeat Desired Agricultural Land Conversion Trend Averaging Time Normal Shift Fraction from Vegetarianism to Meat Normal Shift Fraction from Meat to Vegetarianism 12 Self Efficacy Multiplier Female 8 Effect of GDP on Urban Land Requirement x0 Effect of GDP on Urban Land Requirement k Agriculture to Urban Land Allocation Time Normal Fraction Intended to Change Diet 13 15 Waste Fraction EggsDairy Response Efficacy Multiplier Tertiary Desired Total C Emission from Fossil Fuels Effectiveness of Pressure to Adjust C Emission

0.2

0.4

0.6

8.0

1.0

0.0