

ENERGY MARKET TRENDS FROM A GLOBAL PERSPECTIVE

The U.S. Energy Information Administration provided an assessment of world energy markets through 2050. Model projections assume a continual improvement in known technologies and rely on the views of leading economic forecasters and demographers.

BRITISH THERMAL UNIT (BTU) 1

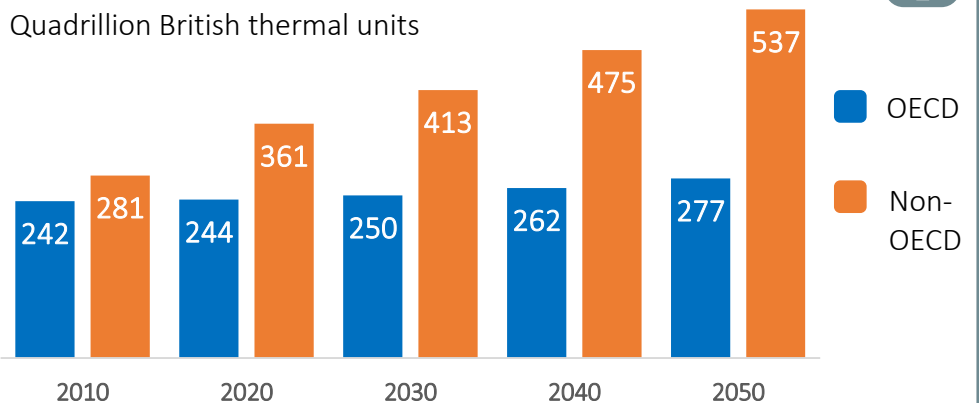
A Btu is approximated as the heat produced by burning a single wooden kitchen match.



It takes about 2,000 Btus to make a pot of coffee.

WORLD ENERGY CONSUMPTION 2

Quadrillion British thermal units



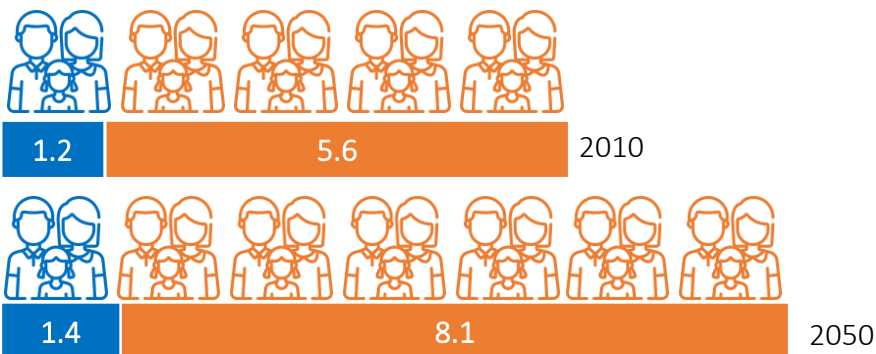
814 QUADRILLION BTUS

The number to which world energy consumption increases by 2050, which is one and a half times as much as the 2010 value. Most of the increase in energy demand is expected to come from non-OECD countries.

FACTORS BEHIND INCREASING ENERGY DEMAND 4

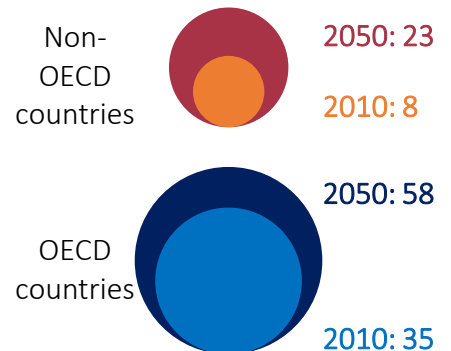
POPULATION GROWTH

Billions of people



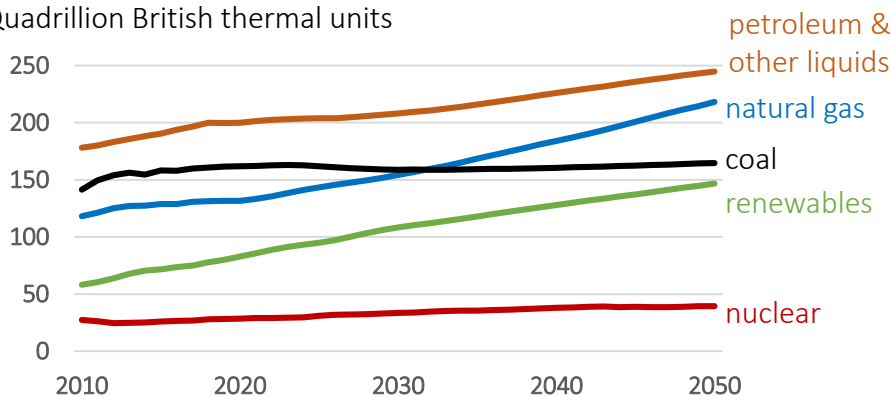
GDP GROWTH

thousand 2010 dollars per capita, purchasing power parity



WORLD ENERGY CONSUMPTION BY ENERGY SOURCE 5

Quadrillion British thermal units

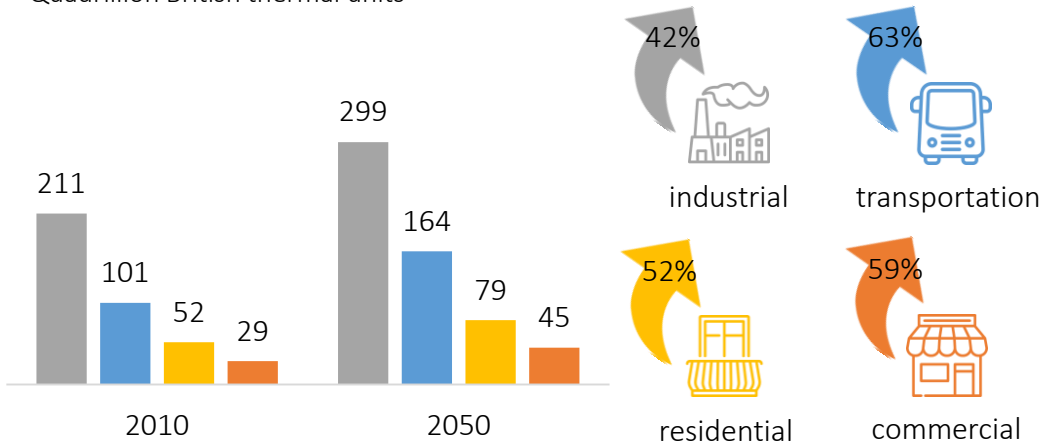


Fossil fuels are expected to continue to meet much of world's energy demand, but renewable energy is the world's fastest growing form of energy.

WORLD ENERGY CONSUMPTION BY END-USE SECTOR

Quadrillion British thermal units

6



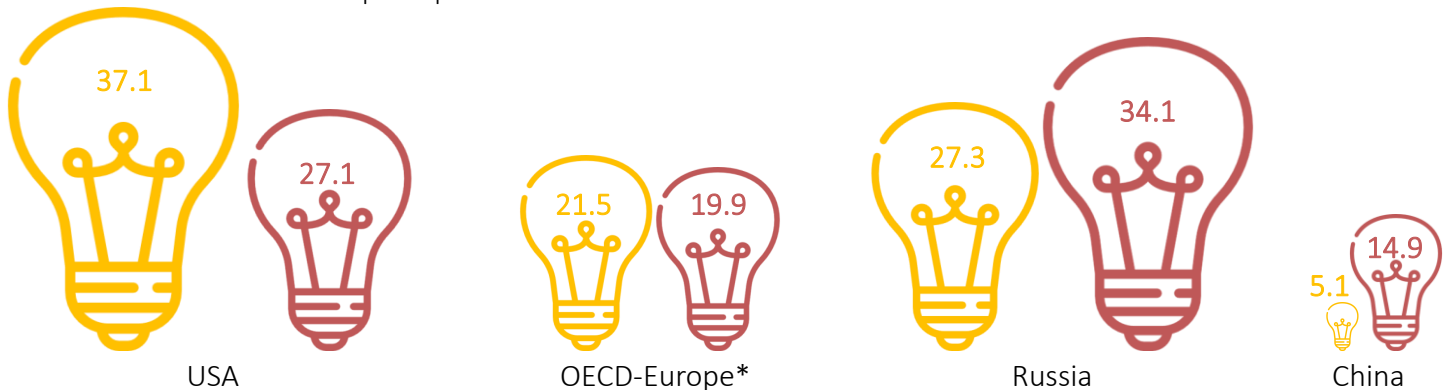
The industrial sector remains the largest energy-consuming sector, accounting for more than 50%. However, energy demand in all other sectors grows more quickly.

RESIDENTIAL ENERGY CONSUMPTION IN SELECTED REGIONS

Million British thermal units per capita

2010 2050

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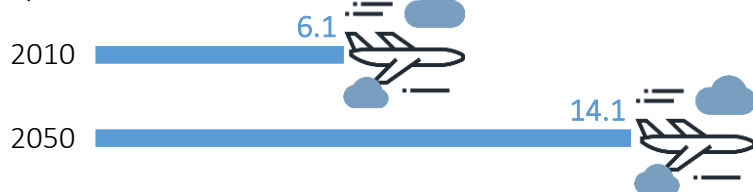
*OECD-Europe: Iceland, Israel, Norway, Switzerland, Turkey and the Member States of the European Union (except for: Bulgaria, Cyprus, Croatia, Latvia – joined the OECD in 2016 –, Lithuania, Malta and Romania).

Residential energy consumption per capita increases to 150% between 2010 and 2050 in non-OECD countries, but still does not reach a third of the value in OECD countries.

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JET FUEL CONSUMPTION IN OECD COUNTRIES

Quadrillion British thermal units



Jet fuel consumption increases due to continuing rise in air travel, but its effect on transportation sector is outpaced by improvements in vehicle fuel efficiency.

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REFERENCES > 1, 3, 4, 5, 6, 7, 8 > U.S. Energy Information Administration (EIA): [International Energy Outlook 2017](http://www.eia.gov/ieo); www.eia.gov/ieo | 2 > www.eia.gov – [Energy Explained](#); Arthur P. Diamond: Energy Glossary (2002)