



Energy Issue

<http://www.masterresource.org/category/climate-change/developing-countries-climate-change>

The Earth at night: ~85% alight by burning coal, oil, natural gas
(DSMA satellite mosaic)

Primary and Secondary Energy

- **Primary energy** is energy in the form of natural resources, such as wood, coal, oil, natural gas, natural uranium, wind, hydro power, and sunlight.
- **Secondary energy** is the more useable forms to which primary energy may be converted, such as electricity and petrol.

Energy

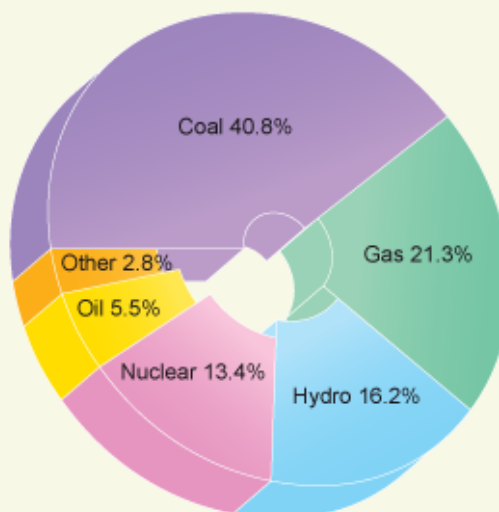
Renewable

- Solar
- Wind
- Wave energy
- Biomass (wood or crops)
- Geothermal energy
- Hydro power

Non-renewable

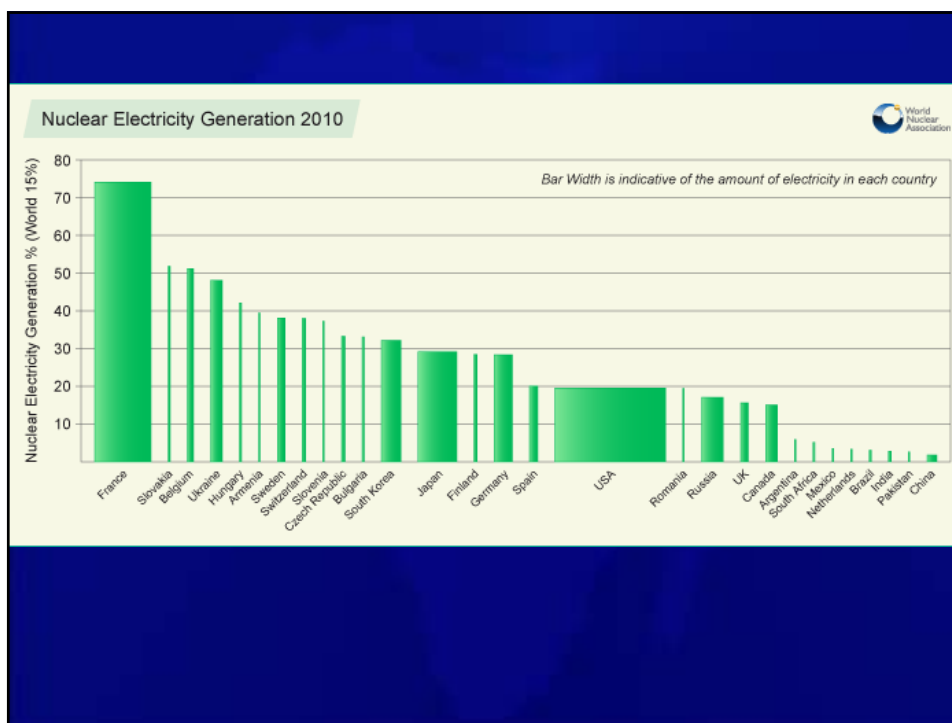
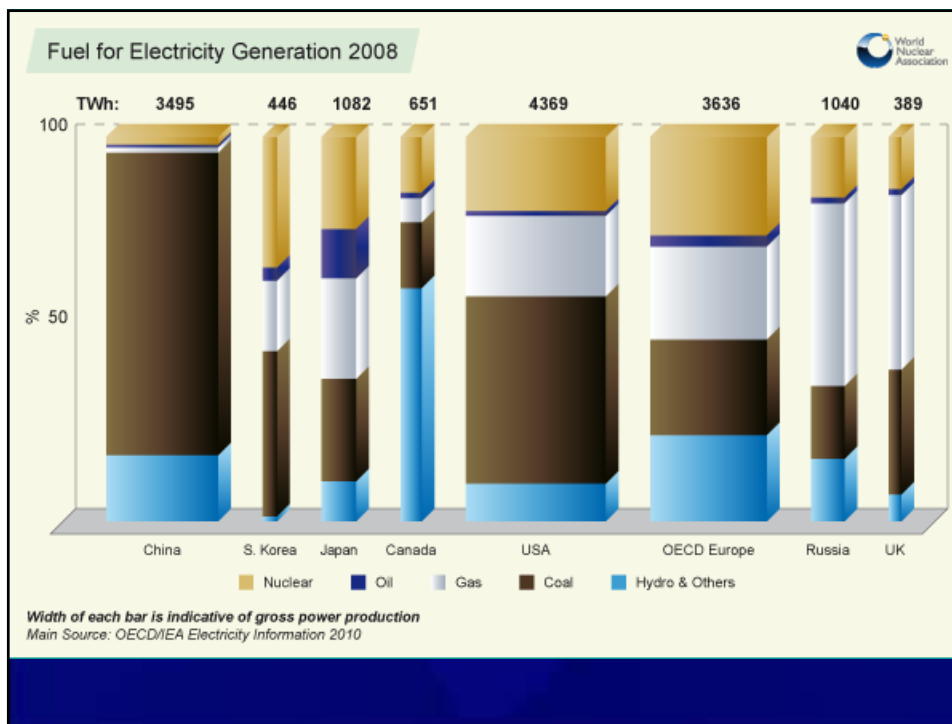
- Fossil fuels
 - Oil
 - Coal
 - Natural gas
- Uranium

World Electricity Production 2008

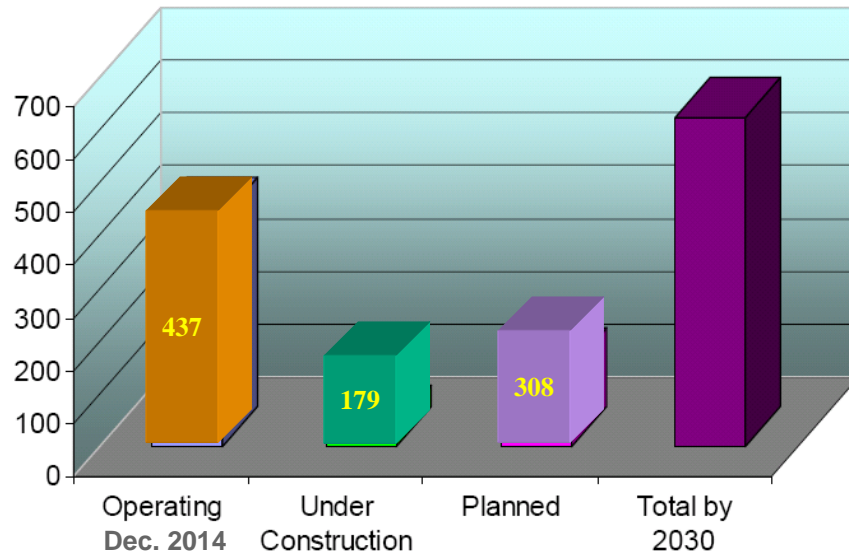


Total: 20,269 TWh

Source: IEA Electricity Information 2010

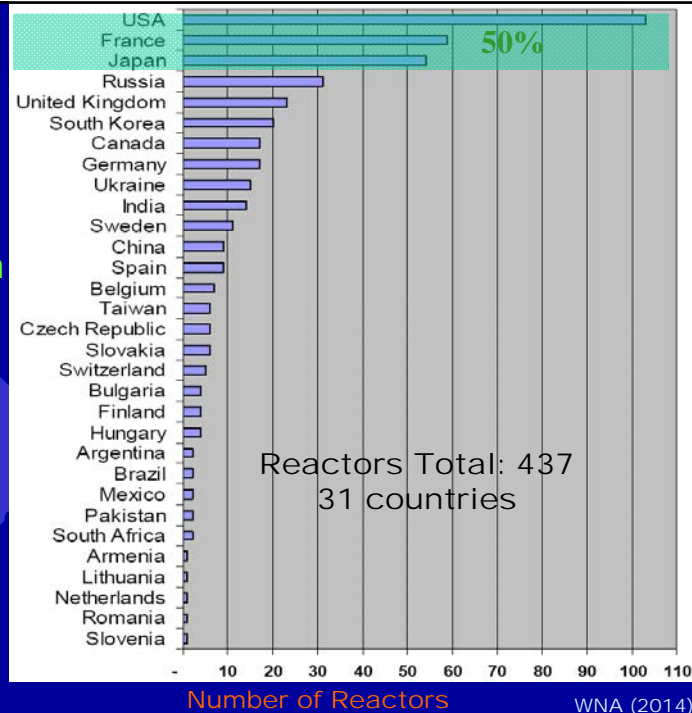


World Nuclear Reactors



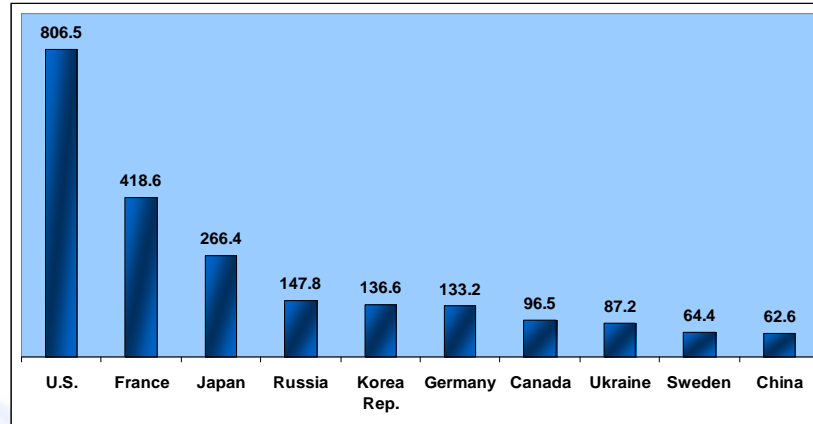
WNA (2014)

Reactors
in Operation
Worldwide
Dec. 2014



WNA (2014)

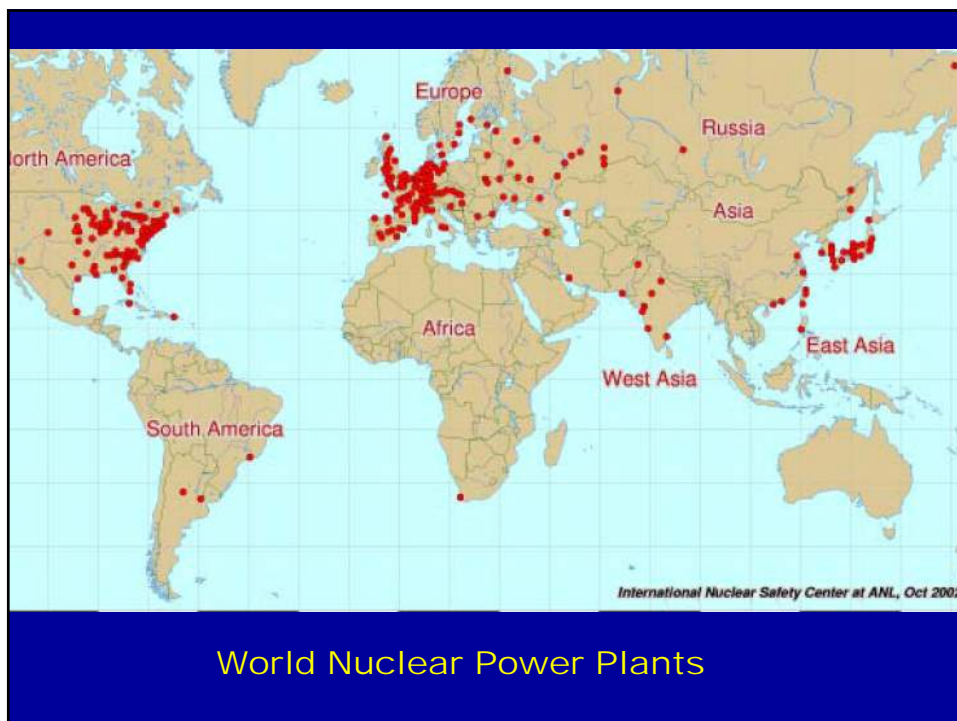
TOP 10 NUCLEAR GENERATING COUNTRIES 2007, Billion kWh

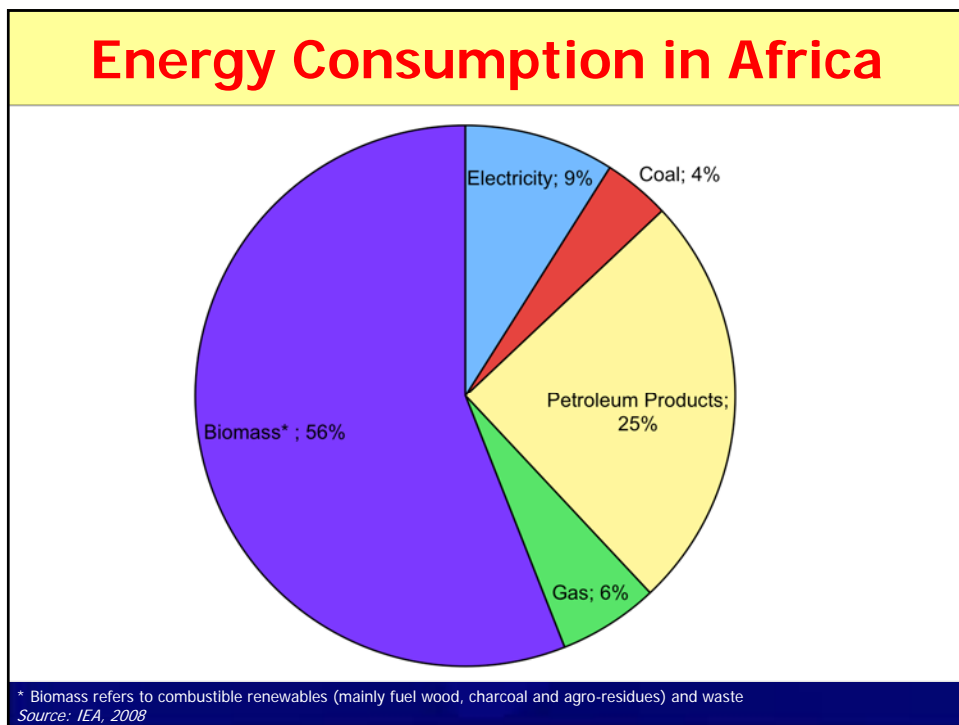
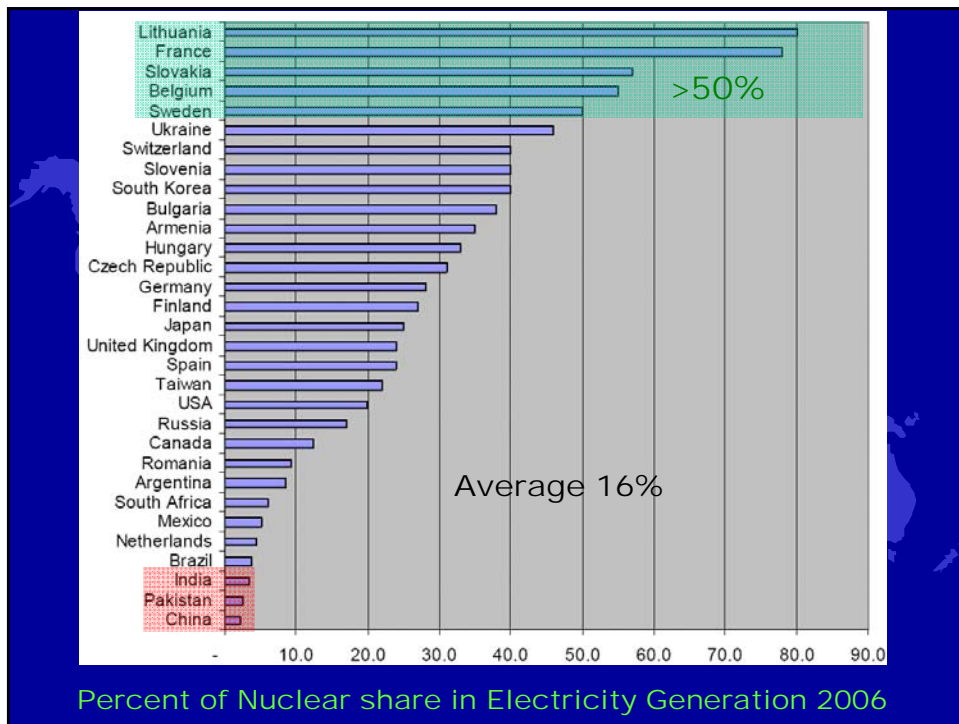


Source: International Atomic Energy Agency, U.S. is from Energy Information Administration
Updated: 5/08

Brookhaven Science Associates

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Advantages of Nuclear Energy

- 1. Lower Greenhouse Gas Emissions**
- 2. Powerful and Efficient :**
- 3. Reliable :**
- 4. Cheap Electricity**
- 5. Low Fuel Cost**
- 6. Supply**
- 7. Easy Transportation**