

Life Beyond 60

Assistant Secretary for Nuclear Energy Dennis R. Spurgeon

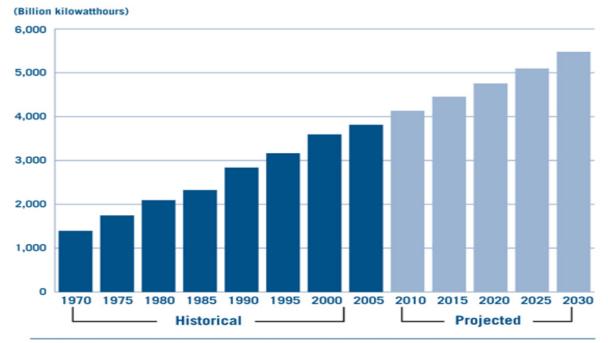
Forecasted Energy Demand



By 2030, domestic demand for energy is projected to grow by 40 - 50 percent.

During the same time, global demand is expected to nearly

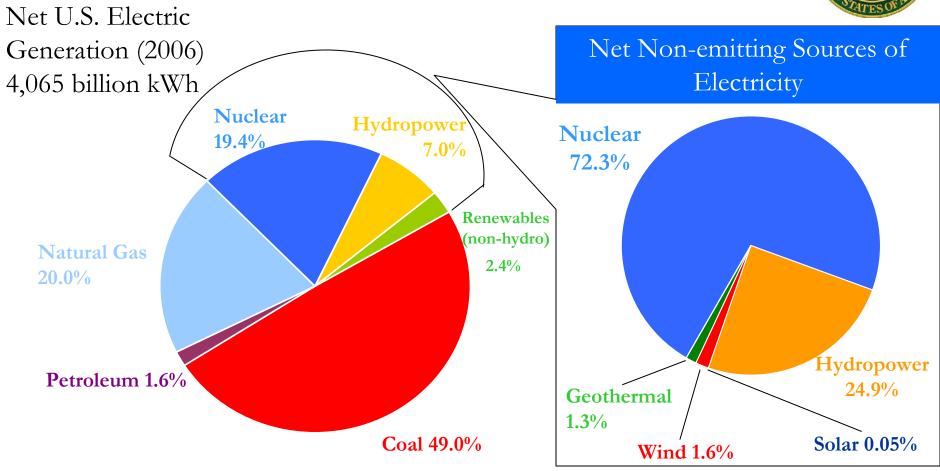
double.



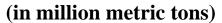
Source: U.S. Department of Energy, Energy Information Administration, Annual Energy Review 2005 and Annual Energy Outlook 2007 Early Release

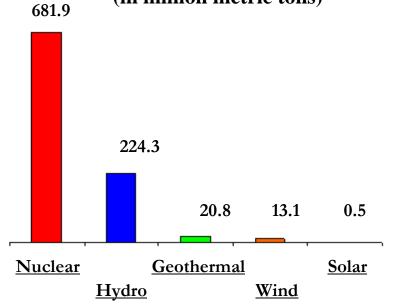
Current Electricity Generation





Carbon Dioxide Prevented by U.S. Electric Power Industry



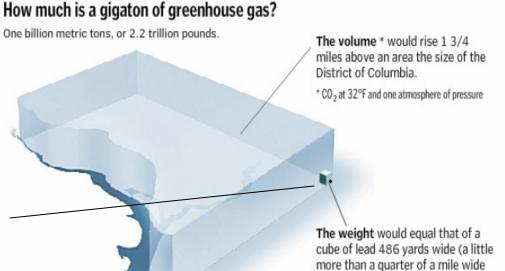


The volume of nuclear waste generated by producing the same amount of electricity from nuclear plants that would otherwise result in a gigaton of CO2 emissions from coal plants would fit into 8 semi-trailers.

Carbon Abatement

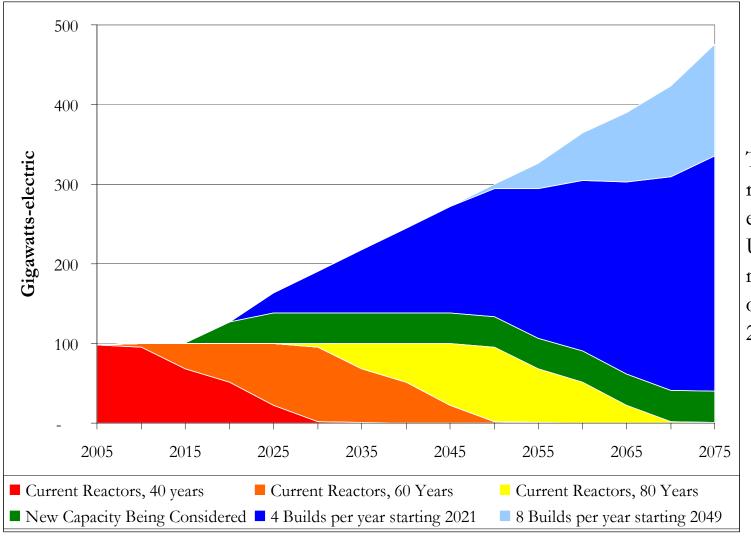


and almost three times the height of the Washington Monument).



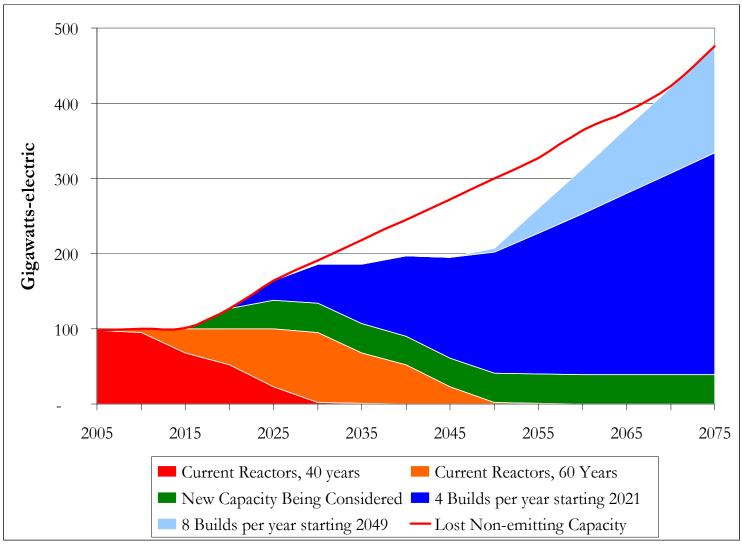
Nuclear's potential expansion





To significantly reduce carbon emissions, the United States will need 300 Gigawatts of nuclear power by 2050.

Nuclear without 80 year extensions





In total, 15 Trillion Kilowatt Hours and 12 Billion Metric tons of avoided CO2 emissions would be lost without license extensions.

That total electricity output could provide power to over 70 million households for 20 years



Life Beyond 60

Assistant Secretary for Nuclear Energy Dennis R. Spurgeon