## Past is Prologue


"Fossil fuels resemble capital in the bank. A prudent and responsible parent will use his capital sparingly in order to pass on to his children as much as possible of hissinheritance. A selfish andd irresponsible parent will squander it in riotous living and care nott one whit how his offspringgwille fare." 14 May 1957 - Admiral Hyman Rickover, Naval Reactors

## Moore's Law, and Energy


-Observation (1965): Number of transistors on integrated circuit doubles every two years
-Enhanced capability typically increases the demand for energy
-Advances in technology can be steady and almost inexorable

The Navy must find a way to keep the march of technology and improved efficiencies from just requiring more energy.




