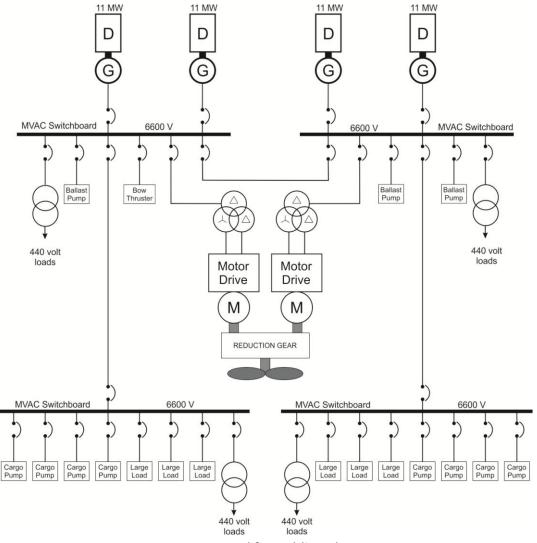
Electric Ship Power and Energy System Architectures

Dr. Norbert Doerry
Dr. John Amy Jr.
IEEE ESTS 2017
August

Existing Ships

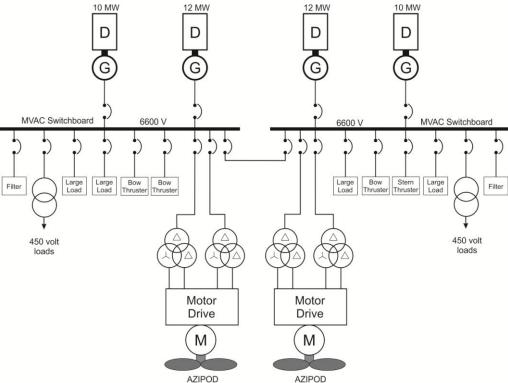
Liquefied Natural Gas (LNG) Carrier



Cruise Ship



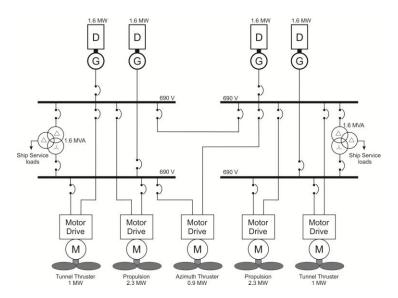
Regal Princess (Photo by Norbert Doerry)

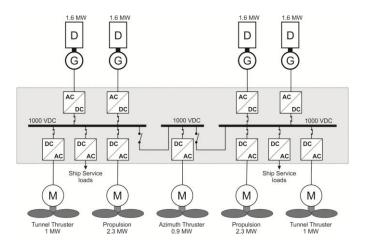


Platform Supply Vessel



Siem Symphony (photo by DXR: https://creativecommons.org/licenses/by-sa/4.0/)

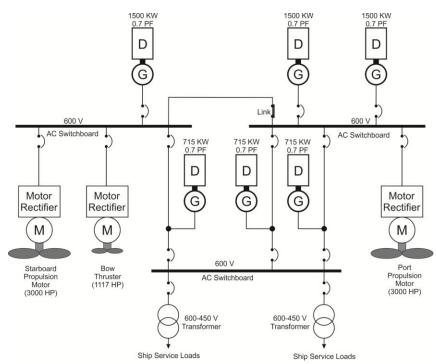




T-AGOR 23 Thomas G. Thompson



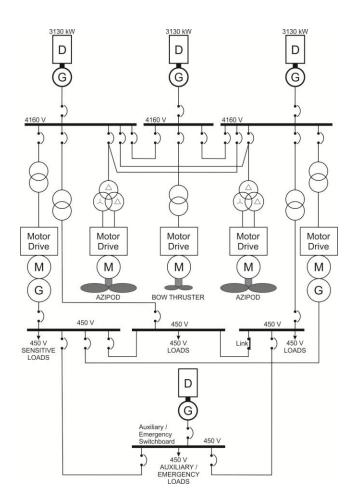
Photo by Doug Russell, University of Washington



WLBB 30 USCGC Mackinaw



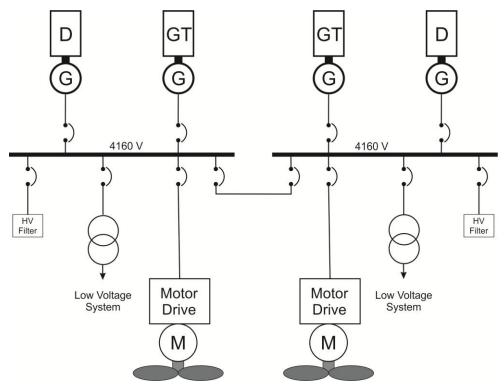
USCGC Mackinaw (WLBB 30) (US Coast Guard Photo by PA3 George Degener)



HMS Daring



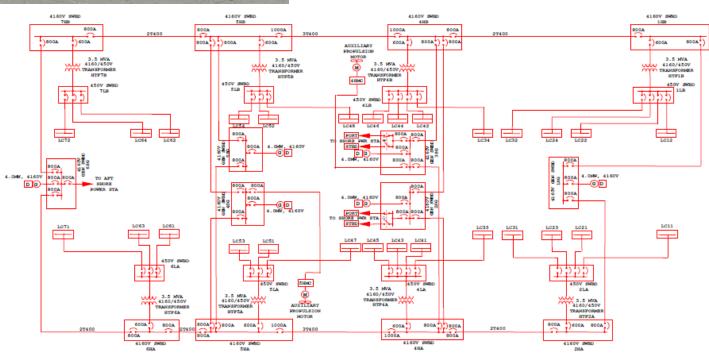
HMS Daring (CC-BY-SA-3.0/Brian Burnell)





USS Makin Island LHD8

US Navy photo by Brett A. Anderson



Thomas Dalton, Abe Boughner, C. David Mako, and CDR Norbert Doerry, "LHD 8: A step Toward the All Electric Warship", presented at ASNE Day 2002.

ALL LOAD CENTERS ARE 2000A

- "*", "\", "\", "\", "\" = INTERLOCKED
 ALL 4160V CABLE TO BE TYPE LS5KV