OPERATIONAL ENERGY IN HISTORY

NAPOLEON
1812: Hampered by the weather and long vulnerable supply lines, Napoleon's invasion of Russia ended in disaster.

END OF SAIL
1814: The USS Fulton was the first U.S. Navy warship to be propelled by steam instead of wind to increase speed and capability.

NORTHERN DISTRIBUTION NETWORK
2011: Stretching almost 1,000 miles, the Northern Distribution Network delivered almost 250,000 tons of supplies to support operations in Afghanistan.

RED BALL EXPRESS
1944: The Red Ball Express, a convoy of trucks, used 300,000 gallons of fuel a day to deliver 400,000 gallons for the Third Army's drive across France.

RAPID UPGRADES
1943: A new engine and drop tanks allowed upgraded P-51 Mustangs to escort bombers all the way to Berlin.

COAL TO OIL
1910's: Led by Winston Churchill, the Royal Navy switched from locally sourced coal to foreign oil to improve speed and range.

MID-AIR REFUELING
1929: The Army Air Corps "Question Mark" set an airplane endurance record of more than 150 hours thanks to 42 mid-air refuelings.

Office of the Assistant Secretary of Defense for Operational Energy Plans and Programs
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