



U.S. NAVY ENERGY, ENVIRONMENT & CLIMATE CHANGE

Energy



Solid State Lighting

What is it?

Light Emitting Diodes (LED) are replacements for incandescent and fluorescent lighting fixtures. SSL lamps are arrays of individual LEDs producing light at the same quality and brightness as legacy lamps with an increased lifespan.

How Does it Work?

All SSL replacements are engineered to meet military specification for lighting (MIL-DTL-16377) and are in the process of being qualified for shipboard use. Incandescent and berth lights will be replaced with fixture-form-fit-function SSL bulbs, and legacy fluorescent tubes will be replaced with SSL tubes.

What Will it Accomplish?

SSL improves energy efficiency, saves fuel at-sea and saves shore power in-port. SSL also improves lamp lifespan, and drives down maintenance and sparring costs. Removal of mercury-containing fluorescent tubes drives down handling and storage costs.

Applications

LED replacements, general illumination and task-specific lighting throughout Navy Ships.



Metrics

Estimated savings are dependent on types, and number of lighting fixture replacements, up to:

- 0.6% (485 bbls) per DDG
- 0.1 - 0.2% (300 bbls) per LSD/LHD



For More Information

Contact via NAVSEA Public Affairs at (202) 781.4123 or

NAVSEAPublic_Affairs@navy.mil