

# DID YOU KNOW?



## How did I save energy for the Navy?

We installed Solid State Lighting (SSL)—Light Emitting Diode replacements for legacy incandescent and fluorescent fixtures—on numerous DDG, LSD and LHD class ships. Depending on ship class, SSL has an annual savings of 95–416 barrels of oil per ship.

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**Age:** 37

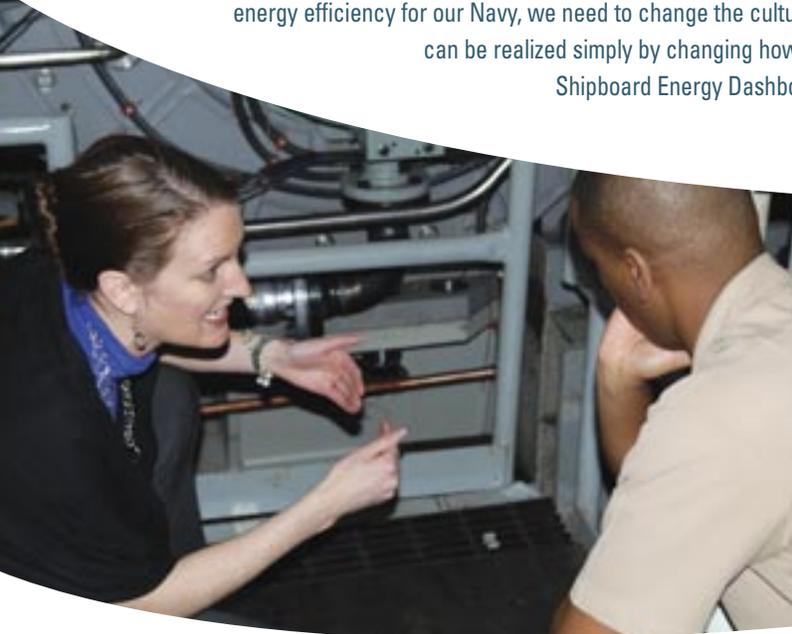
**Hometown:** Sturgeon Bay, WI

**Job:** Ship Systems Engineering Station Energy Program Manager

**Command:** Naval Surface Warfare Center, Carderock Division

## Do you think culture change, in regards to energy conservation, is important for our Navy?

Yes. Advances in technology will only be able to achieve a certain amount of energy savings overtime. In order to really increase energy efficiency for our Navy, we need to change the culture of our ship operators and maintainers. In fact, significant savings can be realized simply by changing how ships are operated and maintained. By providing tools, such as the Shipboard Energy Dashboard, we will enable Sailors to make more energy efficient decisions and help facilitate the necessary culture change.



**ENERGY SECURITY ENHANCES COMBAT CAPABILITY**

# Did you know that the Shipboard Incentivized Energy Conservation program began in 2000 and has saved the Navy millions of barrels of fuel?

As Ship Systems Engineering Station Energy Program Manager at the Naval Surface Warfare Center, Carderock Division, I oversee and coordinate a variety of energy conservation initiatives and efforts in support of the Navy's energy goals. From conducting the first full scale maritime gas turbine engine qualification test for a 50-50 blend of F-76 and Hydro Refined Diesel derived from algae, to the implementation of the Shipboard Energy Dashboard for the DDG-51 class ships—a tool that provides near real time information on energy consumption for the Sailor—we are able to not only increase energy savings but also reduce the number of refueling operations at sea which decreases vulnerabilities for the ship and the Sailors.

Due to my experience as a former Navy Surface Warfare Officer, I understand the importance of meeting mission requirements; fuel efficiency and the risks associated with underway replenishments. Warfighters need energy to get on station, stay on station, execute their missions, and return safely. Implementing energy efficient technologies provides Sailors with the security they need to complete their missions. This year we will be overseeing numerous additional SSL installations as well as six Shipboard Energy Dashboard installations and two thermal management control system installations.

By increasing energy efficiency and enabling ship operators to make more energy conscience decisions we can increase operational capability, time on stations, and the security of the Sailors in the fleet.



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