

For More Information



ABOUT THE ESSEX

Launched in 1799, the first USS Essex was the very first vessel built for the new United States Navy. Essex was also the only U.S. warship to survive the War of 1812. The USS Essex (LHD 2) is the fifth ship to bear this historic name.

Amphibious warships are capable of sailing in harm's way and enabling rapid combat power buildup ashore in the face of opposition. These ships are also used to support humanitarian and other contingency missions on short notice. The largest of all amphibious warfare ships, LHD 2 resembles a small aircraft carrier; capable of supporting a variety of aircraft and landing craft.

ONLINE RESOURCES

USS Essex Home Page: www.essex.navy.mil

USS Essex Facebook Page: www.facebook.com/ussessex

U.S. Pacific Fleet Home Page: www.cpf.navy.mil

U.S. Pacific Fleet Facebook Page: www.facebook.com/pages/Pacific-Fleet/313315455431274

Navy Task Force Energy Facebook Page: www.facebook.com/NavalEnergy

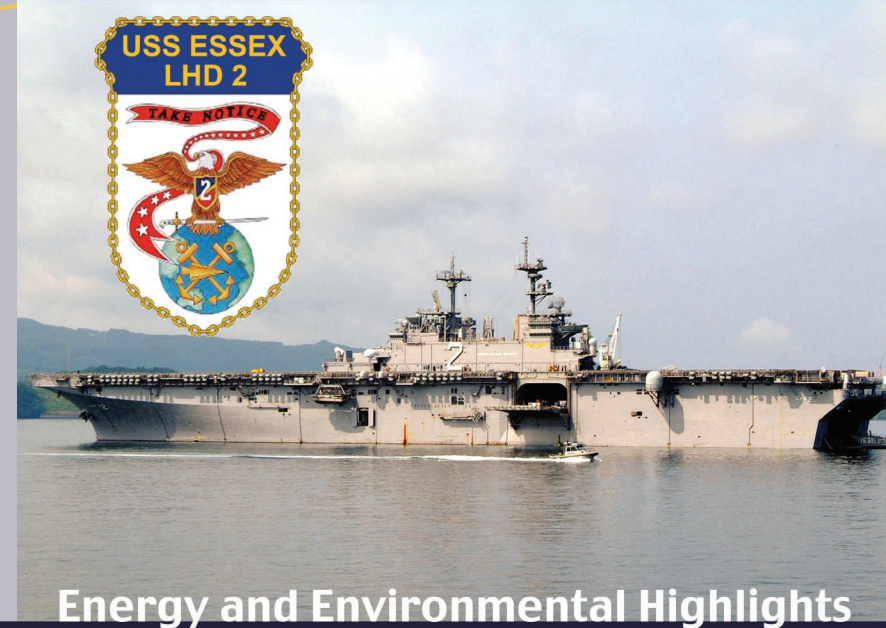
Navy Energy, Environment and Climate Change Web Site: <http://greenfleet.dodlive.mil/home>

Currents – the Navy's Energy & Environmental Magazine Home Page:

<http://greenfleet.dodlive.mil/currents-magazine>

Currents Facebook Page: www.facebook.com/navycurrents

USS Essex (LHD 2)



Energy and Environmental Highlights

USS Essex Quick Facts

| | |
|--------------------------|---|
| Ship Type: | Amphibious Assault Ship |
| Commissioned: | October 17, 1992 |
| Homeport: | San Diego, CA |
| Fleet Assignment: | Commander Naval Surface Force, Pacific Fleet |
| Length: | 844 feet (257 meters) |
| Beam: | 106 feet (32.3 meters) |
| Displacement: | 40,650 tons (full load) |
| Draft: | 28 feet (8.5 meters) |
| Speed: | 24+ knots |
| Manning: | 1,204 Officers and Enlisted Personnel |
| Motto: | Take Notice |

Energy Facts

- Stern flap improves fuel economy.
- Combustion Trim Loop electronic controls optimize air/fuel mixture to **improve LHD-class boiler efficiency and reduce fuel consumption.**
- Fixed-fin stabilizers/rudders improve directional stability thus **improving fuel efficiency** without sacrificing maneuverability.
- On U.S. Fleet Forces Command's list of **Top 5 Energy-saving Ships in the Pacific Fleet** in Fiscal Year 2014.
- Motor controllers and breakers receive **regular preventative maintenance** to reduce energy loss.
- Implements the Navy Incentivized Energy Conservation (iENCON) **energy strategies, techniques and training.**
- Ship only runs **minimum necessary equipment** in port and plans system starts/stops for **non-peak electrical load hours.**
- Pierside and shipboard air compressor use is monitored to **avoid wasted energy.**



Environmental Facts

- **Plastic waste processors** melt and compress all plastics for onboard storage.
- **Pulpers** shred paper and cardboard for safe disposal at sea.
- **Grinders** process metal and glass into small pieces which are discharged in biodegradable burlap bags to avoid floating debris.
- **Paints, solvents and other chemicals** needed for maintenance are managed via a strict inventory control system.
- **Oil/water separators** and other oil pollution abatement systems help keep oil out of the ocean.
- **Tributyltin-free coatings** on ship's hull and propellers reduce drag from biofouling organisms.
- **Ballast tanks are purged** twice with seawater before the ship enters port to avoid introducing invasive species.
- **Ship's lookouts** are trained to spot whales and alert the ship to change course if needed to avoid collisions with marine life.

