



Shore Power Regulation Fact Sheet

The Shore Power Regulation is a California law administered by the California Air Resources Board. Vessel operators (shipping lines) are responsible for complying with the regulation. Beginning January 1, 2014, fleets calling at California ports must shut down their auxiliary engines and plug into the electrical grid while at berth. Fleets must plug in at the following levels and reduce onboard power by these levels:

	Shore Power Regulation (% of fleet's visits to each California port)
2014-2016	50%
2017-2019	70%
2020+	80%

Additionally, if a ship is currently equipped for shore power and a shore power-ready berth is available, the ship *must* plug in to shore power. The regulation applies to container ships, reefer vessels, and cruise ships. Under the regulation, the ports of Long Beach and Los Angeles are considered one port with a single fleet.

There are two components to shore power: the landside infrastructure and the shipside power modifications. The Port of Long Beach has constructed the landside infrastructure. Shipping lines are responsible for the shipside modifications.

Vessel operators face financial penalties for not complying with the regulation. The penalties are spelled out in California Health and Safety Code Section 42400. They range from \$1,000 to \$75,000 per violation and dependent on the circumstances. Because of the way California calculates violations, a shipping line could accrue multiple violations for one ship visit that did not plug into shore power.

More information

General Information:

<http://www.polb.com/civica/filebank/blobdload.asp?BlobID=5779>

Regulation:

Including text of the full regulation, contact information, FAQs, and required forms.

<http://www.arb.ca.gov/ports/shorepower/shorepower.htm>

View the California Air Resources Board Shore Power Workshop:

http://longbeach.granicus.com/ViewPublisher.php?view_id=18

Shore Power Design Standards for Port of Long Beach:

<http://www.polb.com/civica/filebank/blobdload.asp?BlobID=2158>

International Shore Power Design Standards:

There is a single international standard to ensure compatibility among the world's shore power systems. It is defined under ISO/IEC/IEEE 80005-1-2012 - Utility Connections in Port - Part 1: High Voltage Shore Connection (HVSC) Systems - General requirements. These standards describe high voltage shore connection (HVSC) systems on board the ship and on shore. It is available for purchase at the link below:

http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=53588