

**SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT  
YEAR 11/12 CARL MOYER PROGRAM (Solicitation #2)**

**Form D-2 - MARINE VESSELS  
Shore Power**

Please complete one form for each vessel.

**I. PROJECT INFORMATION**

Company name/ Organization name/ Individual name:		
Type of project (select only one):		
<input type="checkbox"/> Vessel retrofit to accept electrical power ("ship-side")	<input type="checkbox"/> Vessel retrofit and transformer purchase	<input type="checkbox"/> Purchase of transformer and associated infrastructure ("shore-side")
Type of applicant:		
<input type="checkbox"/> Terminal owner	<input type="checkbox"/> Vessel Owner	<input type="checkbox"/> Port Authority <input type="checkbox"/> Other
Other potential project partners (if applicable):		
Power supplier:		
Where does the electrical power infrastructure begin and end?		
Project Location: (Please include port, terminal, pier and berthing slip) If you are leasing the terminal, identify time left on the current lease:		
Total number of vessels expected to use shore power at this location (per year):		
Total number of annual vessel visits expected to use shore power:		
Total number of annual hours of usage for vessels expecting to use shore power:		

**II. VESSEL INFORMATION** Complete Section II for each vessel to be retrofitted. For transformer only projects, please provide a detailed description of the vessels that typically use this terminal.

Vessel Type <sup>1</sup> :	
Vessel Name:	Vessel Make:
Vessel Model:	Vessel Year:
US Coast Guard Documentation Number:	
Lloyds Register/IMO Ship ID Number:	
Vehicle Registration (CF) Number:	
Total Number of main and auxiliary engines on vessel:	
Main engine(s)	Auxiliary engine(s)
Total number of annual visits to the terminal:	
Average berthing time (hours) of the vessel, per visit (include time needed to connect and disconnect the vessel to shore power):	
Vessel power (kW) requirements while at berth	
Average Power Requirement:	
Maximum Power Requirement:	

<sup>1</sup> **Note:** If your vessel type is a refrigerated cargo ship, container-ship or passenger ship, please attach your Vessel Plan as required by the ARB shore power regulation: <http://www.arb.ca.gov/ports/shorepower/shorepower.htm>

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**III. MARINE VESSEL INFORMATION (continued)**

<input type="checkbox"/> Main Engine _____ <input type="checkbox"/> Auxiliary Engine _____	
Fuel Type:	Engine Make:
Engine Model:	Engine Year:
Engine Serial No:	Horsepower:
Engine Displacement (ltr/cyl):	Engine Family:
Retrofit Equipment Make:	Retrofit Equipment Model:
<input type="checkbox"/> Main Engine _____ <input type="checkbox"/> Auxiliary Engine _____	
Fuel Type:	Engine Make:
Engine Model:	Engine Year:
Engine Serial No:	Horsepower:
Engine Displacement (ltr/cyl):	Engine Family:
Retrofit Equipment Make:	Retrofit Equipment Model:

**IV. ACTIVITY INFORMATION**

<input type="checkbox"/> You must attach documentation showing the historical <b><i>hours of operation</i></b> for <b>EACH</b> existing engine over the last <b>24 consecutive months</b> . Documentation may be in the form of maintenance records, logs, or other paperwork that shows hour usage	
Percent Operation within CA Waters <sup>3</sup> : _____%	Percent Operation within District Waters <sup>4</sup> : _____%
Is there any seasonality to the use of the vessel? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, please explain:	
Is this vehicle involved in the movement of freight/goods? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe:	

<sup>3</sup> Note: See Figure 12-1 in the 2011 Carl Moyer Guidelines for map of CA Waters.

<sup>4</sup> Note: 25 miles from the San Diego County Coast (excluding Mexican waters). Operation within District Waters is the primary means of determining cost-effectiveness.

**V. FUNDING INFORMATION**

Transformer Project Cost: \$	Associated Infrastructure: \$
Retrofit Equip. Cost (incl. tax): \$	Retrofit Equip. Installation Cost: \$
<b>Total Amount Requested for this Project<sup>6</sup>:</b>	
<input type="checkbox"/> Maximum allowable    Shore Power Transformer ("shore-side"): <b>50% of transformer &amp; other equipment between the vessel and transformer</b> Shore Power Vessel Retrofit ("ship-side"): <b>100% of retrofit cost</b> <b>50% of transformer cost</b>	
<input type="checkbox"/> Other: \$                    You may request less than the maximum allowable funding amount to improve the cost-effectiveness of your project	
Anticipated Project Completion Date:	<b>Please attach a proposed project schedule.</b>

<sup>6</sup> Note: You **MUST** attach a written estimate from the equipment vendor documenting the cost of the equipment and labor.

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**Attachment Reminder Checklist**

Did you attach the following to complete your application?

- ✓ One completed copy of Form A-1 – General Project Information Application
- ✓ Vessel or Terminal Plan (as required by the ARB Shore Power Regulation, go to <http://www.arb.ca.gov/ports/shorepower/shorepower.htm> for more information)
- ✓ Detailed Project Scope (include proposed project schedule and proposed project budget)
- ✓ Documentation showing the historical ***hours of operation*** for **EACH** existing engine over the last **24 consecutive months**. Documentation may be in the form of maintenance records, logs, or other paperwork that shows hour usage
- ✓ Written estimate (quote) from the equipment vendor documenting the cost of the equipment and labor
- ✓ A completed IRS Form W9 and California Form 590 for your company