

**Air Resources Board  
First Year Potential AQIP Demonstration Projects**

**Marine Category**

January 5, 2009

<b>Project</b>	<b>Description</b>	<b>Initial Staff Comments</b>
Tugboat Hybrid Retrofit	Retrofit existing tugboats with hybrid battery system	EJ areas. Demonstrated on new vessels but not as a retrofit
Wind Assist Hybrid Ferry	Retrofit existing ferry with sail and hybrid battery system	Not yet demonstrated as a retrofit or in ferry applications
Sail Retrofit	Retrofit existing vessels with sail to reduce engine usage	Low cost, with large potential
Natural Gas Tugboat	Tugboat fueled by natural gas	Currently funded? Coast Guard fuel issues
Alternative Marine Power	Provide grid power to vessels when docked to eliminate need for auxiliary engine operation	Beyond demonstration
Other	Stakeholder Ideas	

Above are listed the initial ARB and working group members ideas for potential AQIP demonstration projects, we encourage all stakeholders to provide input on this list of potential projects and ideas for additional projects.