

Long Beach City College Project Concept  
Advanced Transportation Technology  
California Energy Commission  
AB118 Docket:08-ALT-1

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### **LNG/CNG Faculty Recruitment and Training**

Long Beach Community College District has developed a three pronged approach to supporting the new clean air technology requirements for employers and employees that result from the Port of Long Beach's February 2008 "Clean Trucks Program." The Clean Trucks Program will greatly accelerate the reduction of air pollution and public health risks posed by dirty diesel trucks that would otherwise remain on the roadways for many years if not decades. In November 2007, the Long Beach and Los Angeles Boards of Harbor Commissioners approved a ban on pre-1989 trucks beginning October 1, 2008. By January 1, 2010, only trucks built after 1993 will be allowed into port shipping terminals, and by January 1, 2012 all trucks must meet 2007 federal emission standards that make new trucks more than 80 percent less polluting than older trucks.

Working with Westport Innovations and the Advanced Transportation, Technology and Energy Center located at LBCC, **the college has developed a modularized training program based on the Westport Cummins LNG engine and fuel system to fill skills gaps of incumbent workers at heavy duty truck suppliers; LBCCD is now supplying this training to heavy truck suppliers in the Southern California region.** LBCC has also reorganized its current alternative fuels certificate, expanding it to include LNG curriculum in order to provide a pipeline of new technicians.

With approximately 16,800 truck drivers requiring new engines, retrofit, or total truck replacement, a major shortage exists for technicians/mechanics that have been trained to work on the alternative fuel engines. Liquefied Natural Gas (LNG) engine suppliers such as our partner Westport Innovations Inc. are providing these alternative fuel engines and ancillary fuel systems to heavy duty truck suppliers such as Kenworth. These engines are new to the incumbent technicians and the truck suppliers and training will be required to allow these technicians to safely and competently provide maintenance and repair.

The third focus of the LBCC Advanced Transportation Technology program for LNG has been to **build a concurrent enrollment program for high school students that enable the juniors and seniors in the program to have a substantial head start on their college certificate requirements when they graduate. They will only be lacking two college classes to complete a certificate in Advanced Transportation Technology. Our pilot model has been very successful and has made believers of many skeptical high school administrators. Of the 27 (at risk) students enrolled in the first semester of the program not only have**

The outcome of the Train-the-Trainer would be the ability of community colleges in the state to offer LNG/CNG Westport Certified training as their regions move to stricter diesel emission strategies.

**Budget**

Outreach and Marketing (2 brochures and 1 event)	5,000
Training Coordinator (50% time)	35,000
Faculty Classroom Skills (12 hour class x 3 offerings)	6,000
Faculty Train-the-Trainer (6 offerings)	15,000
Benefits (faculty)	6,000
Benefits (coordinator)	14,350
Travel for Train the Trainer	8,000
Equipment	10,000
Supplies	<u>5,000</u>
TOTAL	\$104,350

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