

CALIFORNIA ENERGY COMMISSION

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www.energy.ca.gov



NOTICE OF PROPOSED AWARD (NOPA)
Natural Gas Engine Improved Efficiency Research and Development
Grant Solicitation GFO-16-507
March 9, 2017

On December 13, 2016, the California Energy Commission (Energy Commission) released a competitive solicitation to fund research and development of advanced natural gas engine efficiency improvement technology. Up to \$2,700,000 in Natural Gas Research and Development Program funding was available to fund applications in research and development projects to advance and demonstrate natural gas engine efficiency improvement technologies capable of reducing the efficiency gap between heavy-duty natural gas engines and equivalent diesel engines.

The Energy Commission received five proposals by the due date of February 13, 2017. Each proposal was screened, reviewed, evaluated, and scored using the criteria in the solicitation.

The attached "Notice of Proposed Award" identifies each applicant selected and recommended for funding by Energy Commission staff and includes the recommended funding amount and score. The total amount recommended is \$2,690,719.

Funding of proposed projects resulting from this solicitation is contingent upon the approval of these projects at a publicly noticed Energy Commission Business Meeting and execution of a grant agreement. If the Energy Commission is unable to timely negotiate and execute a funding agreement with an Applicant, the Energy Commission, at its sole discretion, reserves the right to cancel or otherwise modify the pending award, and award the funds to another applicant.

In addition, the Energy Commission reserves the right to negotiate with successful applicants to modify the project scope, schedule, and/or level of funding.

This notice is being mailed to all parties who submitted an application to this solicitation and is also posted on the Energy Commission's website at: www.energy.ca.gov/contracts/.

For information, please contact Gordon Kashiwagi at (916) 654-5131
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Gordon Kashiwagi
Commission Agreement Officer



California Energy Commission

GFO-16-507

Natural Gas Engine Improved Efficiency Research and Development

Notice of Proposed Award

March 9, 2017

Rank	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Proposed Award	Match Funds	Score	Award Status
Proposed Awards							
1	North American Repower, LLC.	Development of Advanced Heavy Duty Class 8 CNG Engine Technology to Increase Efficiency	\$900,000	\$900,000	\$1,058,097	93.3%	Awardee
2	Southwest Research Institute	Research and Development of Natural Gas D-EGR Engine for Improved On-Highway Efficiency	\$891,580	\$891,580	\$250,000	75.4%	Awardee
3	Transient Plasma Systems, Inc.	Development and Demonstration of a Production-Intent Transient Plasma Ignition System for High Efficiency Natural Gas Engines	\$899,139	\$899,139	\$62,000	74.1%	Awardee
Total Funding Recommended			\$2,690,719	\$2,690,719	\$1,370,097		
Did Not Pass							
Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Proposed Award	Match Funds	Score	Award Status	
Omnitek Engineering Corp.	Increasing Fuel Efficiency by 10% and Achieving Near-Zero NOx Emissions in a Natural Gas On-Road 15-Liter Engine by Integrating and Optimizing Eleven Strategies to Improve the Four-Stroke Cycle	\$900,000	\$0	\$1,030,000		Did Not Pass	
Mirus Energy, Inc.	Oxygen-Enhanced Pilot-Ignited Natural Gas Combustion with High Levels of Exhaust Gas Recirculation for Heavy-Duty Truck Engines	\$899,659	\$0	\$0		Did Not Pass	