



U.S. Department of Energy  
**Energy Efficiency  
and Renewable Energy**  
Bringing you a prosperous future where energy  
is clean, abundant, reliable, and affordable

# ADVANCED COMBUSTION ENGINE RESEARCH & DEVELOPMENT

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*Less dependence on foreign oil, and eventual transition to  
an emissions-free, petroleum-free vehicle*

*FreedomCAR and Vehicle  
Technologies Program*

**2004  
ANNUAL  
PROGRESS  
REPORT**



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**Progress Report for Advanced Combustion  
Engine R&D**

**Energy Efficiency and Renewable Energy  
Office of FreedomCAR and Vehicle Technologies**

**Approved by Gurpreet Singh**

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