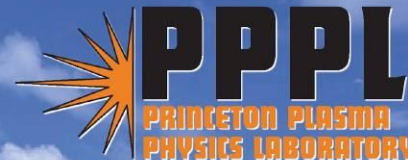




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## Fleet Management at PPPL



### EFCOG Environmental Subgroup Meeting

March 18, 2010

Robert S. Sheneman, CPG

Lead, Material & Environmental Services Division  
**Princeton Plasma Physics Laboratory**



U.S. DEPARTMENT OF  
**ENERGY**

Office of Science





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## Introduction

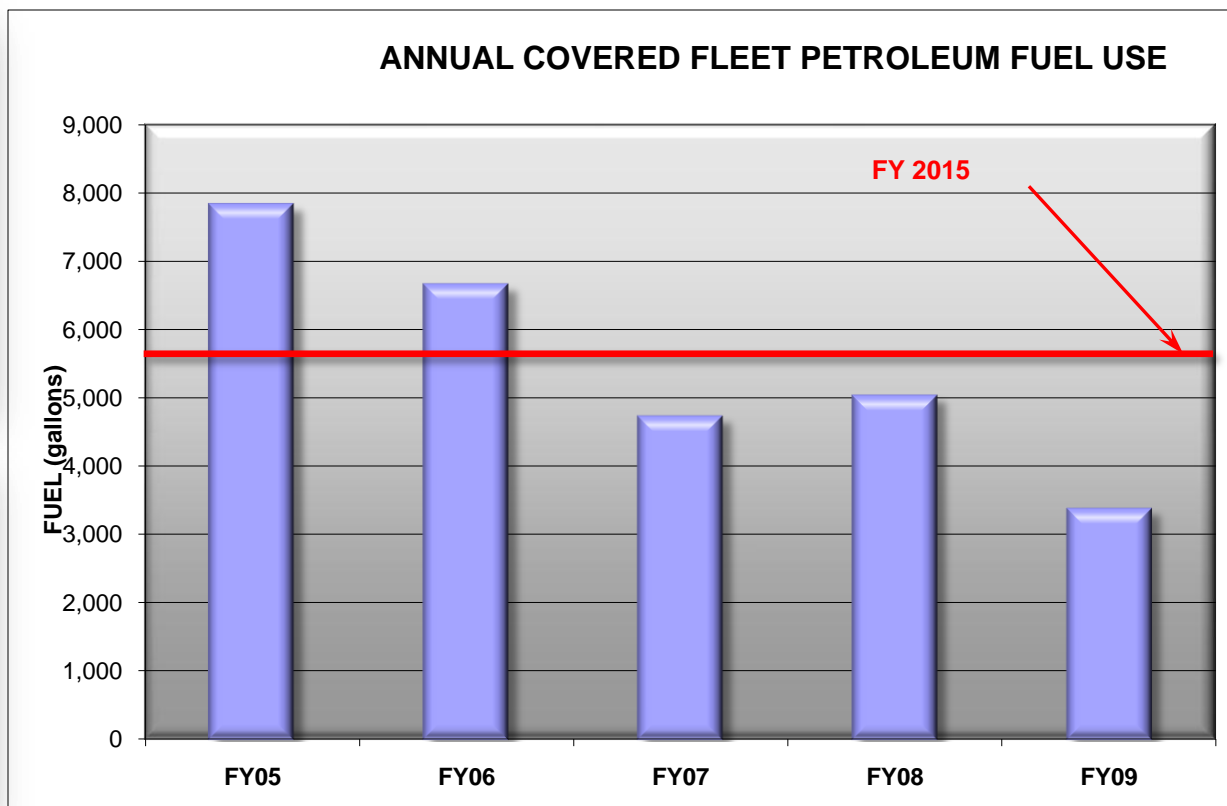
**OBJECTIVES:** *Reduce petroleum fleet petroleum consumption, increase the use of alternative fueled vehicles (AFVs), and increase the use of alternative vehicle fuels to meet the goals of EPACK2005.*

- Initial efforts in response to Katrina
- Alternative fuel pilot tests
- Fleet replacements & neighborhood vehicles
- On-site AFV refueling infrastructure





## Petroleum Fuel Reduction

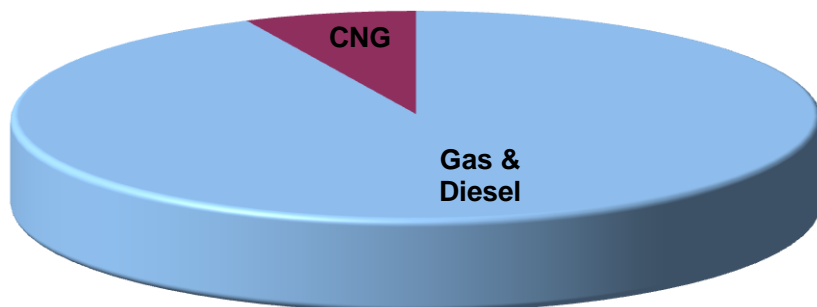


FY2009 petroleum fuel use is 72% below FY2005 baseline

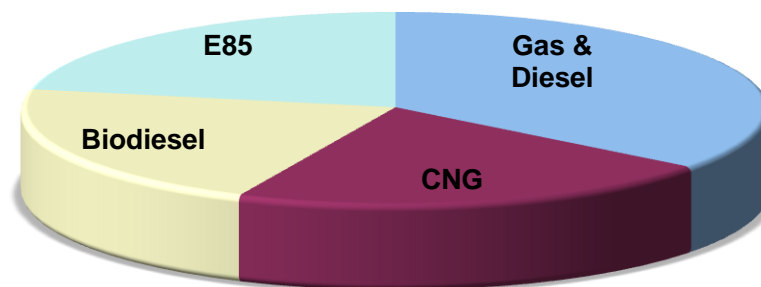


## Alternative Fuels & AFVs

FY06 FLEET FUEL USE



FY09 FLEET FUEL USE



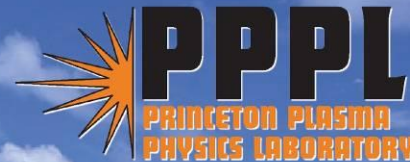
- 62% of PPPL fleet are AFVs (E85, CNG, B20)
- 64% of fleet fuel used in FY09 is non-traditional fuels
- Expanded use of CNG vehicles (GSA lease availability)
- Pilot test of B20 in light duty trucks & Gators
- All suitable fleet replacements since FY06 are AFVs
- B20 also used in heavy mobile equipment





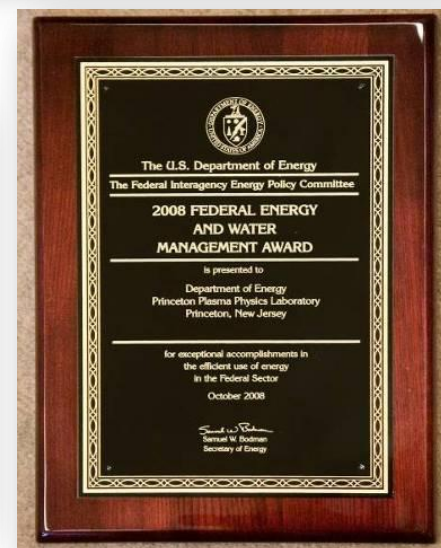
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## Lessons Learned

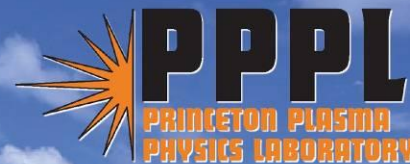
- Start small with willing partners
- Pilot test to find & fix problems
- Enhanced maintenance may be required
- On-site infrastructure is critical
- Local markets must be mature enough to support your efforts





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