

Office of Hydrogen and Infrastructure

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Brief Synopsis of Presentation:

Pete Devlin (DOE): Office of Hydrogen and Infrastructure

Fuel Cells are being incorporated into the Office of Hydrogen and Infrastructure next year, and this is in line with the National Energy Policy (NEP) issued by the new Administration last year. The Partnership for a New Generation of Vehicles (PNGV) has become the FreedomCar program and will also be incorporated into this Office's activities next year.

The organization of DOE is changing from the former "market sector" structure to one more centered around programs, e.g., fuel cells, and the focus is on results rather than process. Under the new structure 31 programs will be reduced to 11. June 3 is the new target date for final implementation of the reorganization.

- The "Fuel Cells" component will focus on cost, durability, startup time, air/thermal/water management and codes and standards. Several sub-programs will exist in the fuel cells technology area.
- For the transportation sector, the startup time of 10 minutes is a focal point.
- The "Hydrogen" component will focus on storage, hydrogen fuel cost, fuel infrastructure and codes and standards. Storage is the major point of emphasis for the near term.
- "Power Parks" will focus on co-production of hydrogen and electricity.
- "Off-board Reforming" will focus on purification, compression, dispensing, and natural gas reforming.
- Renewables will focus on wind and biomass-derived hydrogen fuels.
- Carbon composites are being evaluated as a material for the construction of pressurized tanks.

Key Program Activity budgets (FY03) are expected to be

- Transportation \$50.0M
- Distributed Generation \$ 7.5M
- Hydrogen Program \$39.9M [FreedomCar].

In summary, the Fuel Cells Program in EERE is designed to offer several valuable national benefits, including lower oil imports, improved grid reliability, reduced air pollution, and lower carbon emissions. In this endeavor we intend to pursue industry collaboration and focus on the critical technology needs.