



U.S. Department of Energy
**Energy Efficiency
and Renewable Energy**

Bringing you a prosperous future where energy
is clean, abundant, reliable, and affordable

FreedomCAR & Vehicle Technologies Program

History of the FreedomCAR Environmental Science & Health Impacts Activity

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(DEER) Conference*
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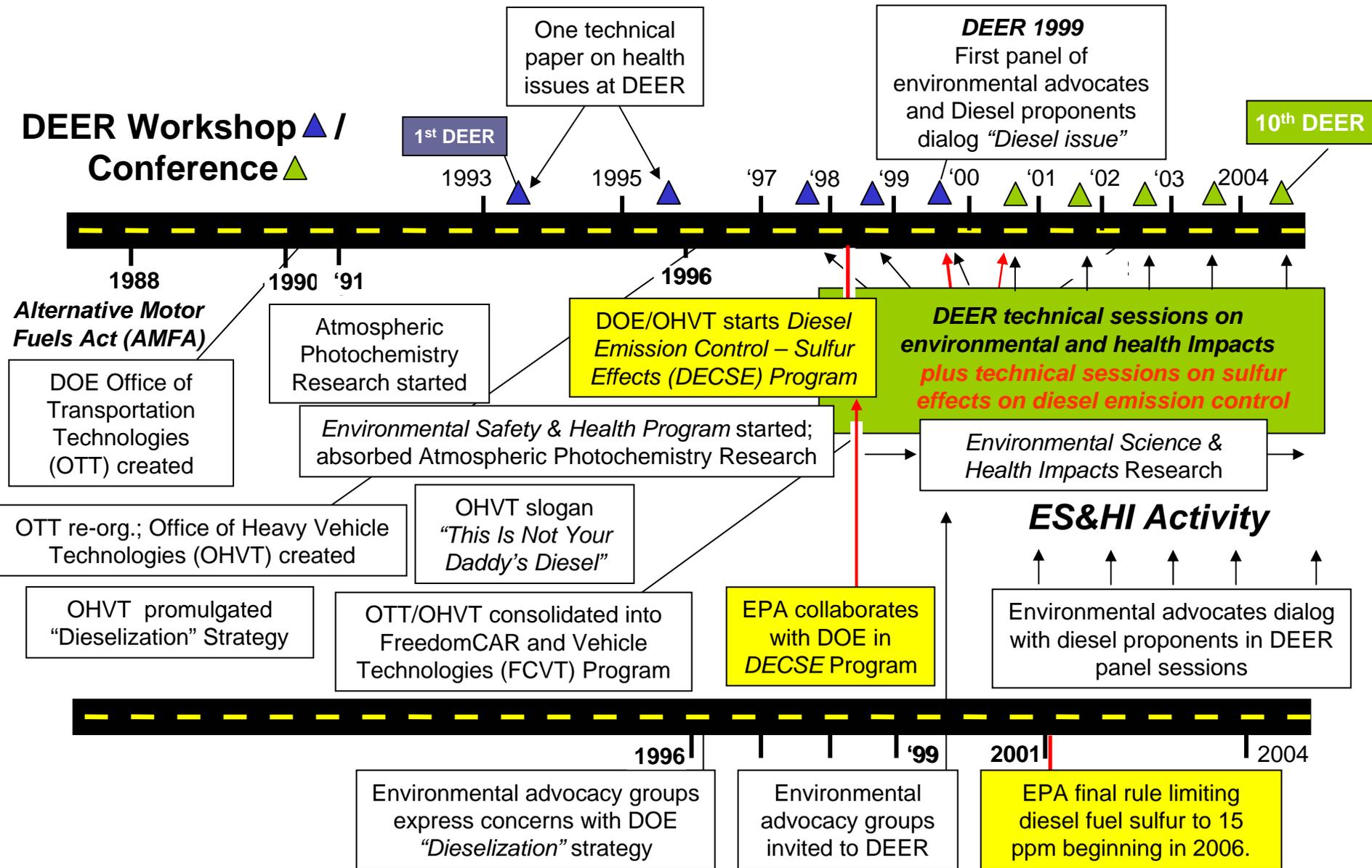
FCVT Program Mission

*To develop more energy efficient and environmentally friendly highway
transportation technologies that enable America to use less petroleum.*

--EERE Strategic Plan, October 2002--



ES&HI and DEER Timeline





Summary of Significant Findings

- ❑ Weekend/weekday ozone study implies that NO_x control may not be the best way to reduce ozone formation in some areas.
- ❑ Source apportionment studies are showing that more PM measurement data are needed to improve accuracy of mobile source inventory model predictions of emission contributions (gasoline cars vs. diesel trucks).
- ❑ Health impacts research results indicate that emissions from high emitting gasoline vehicles even with catalytic converters are as toxic as or more so than emissions from diesel vehicles with no aftertreatment.

***Reported in peer-reviewed technical journal papers:
47 on environmental impacts and 23 on health impacts.***