Although auto manufacturers have developed fuel cells, electric and hybrid vehicles to mitigate pollution, even more can be done. Two promising alternatives are distributed power and shared-vehicle transportation systems. This presentation will briefly review these concepts and then describe the new Zero Emission Vehicle-Network Enabled Transport program (ZEV-NET). ZEV-NET will offer participating commuters low and zero-emission vehicles to travel from the Irvine Transportation Center to their workplace. During business hours, fellow employees can share the vehicles for short trips. In the evening, the vehicles are driven back to the transit station where returning Irvine residents can use them for the trip home. ITS researchers are installing global positioning system (GPS) monitors in the vehicles for real-time tracking of vehicle performance and location to learn more about commuter travel patterns and behavior.

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