

Seattle Fire Department gains 23% increase in miles driven per gallon with the XL3® Hybrid Electric Drive System

Challenge

Increase miles driven per gallon and reduce carbon dioxide and NOx emissions with same drivability in rigorous drive cycle.

Solution

Upfit Ford E-450 ambulances with the XL3 Hybrid Electric Drive System and measure results through the XL Link™ wireless data connectivity system.

Vehicles

Ford E-450 ambulances are used for responding to 911 calls in the City of Seattle.

Results

The ambulances have achieved a 23% increase in miles driven per gallon in Seattle's duty cycle, which includes steep urban grades and temperature changes. The hybrid ambulances, which each kept the Ford powertrain completely intact, also proved to have the same or better torque than stock ambulances.

As a result, the City of Seattle plans to re-order additional vehicles with the XL3 hybrid system in 2016 and 2017.



Hybrid Fleet Electrification Numbers

23%

Improvement in Miles Driven per Gallon

100,000

Projected Lifetime Hybrid Miles per Vehicle

19%

Projected Reduction in CO2 Emissions

