

Yale University increases fuel economy by 23% with the XLH™ Hybrid Electric Drive System

Challenge

Reduce the carbon footprint of Yale University's campus shuttles, as part of the University's carbon charge pilot program, which prompts behavior changes by putting a price on the carbon dioxide used.

Solution

Upfit three Ford shuttle buses with the XLH hybrid system and the XL Link™ cloud-based big data analytics system to monitor and report hybrid vehicle performance.

Results

Yale University's fleet has a progressive sustainability initiative, including Goshen Coach 24 passenger shuttles built on Ford E-450 platform upfitted with the XLH Hybrid Electric Drive System. The shuttles transport students, faculty and Yale visitors around the campus and metropolitan New Haven area. The hybrid shuttles are delivering more than a 23% increase in fuel economy thanks to XL's technology and are exceeding Yale's expectations for CO2 emissions reduction and fuel savings.

Additionally, Yale University has benefited from increased driver productivity with higher miles driven per gallon. Plus, the "green" branding on its buses shows students and faculty that the university is committed to sustainable practices. As a result, Yale has already reordered additional shuttles.

Yale

Hybrid Fleet Electrification Numbers

23%

Improvement in Fuel Economy

99.9+%

Hybrid Vehicle Uptime

239 Tons

Projected Lifetime Fleet Reduction in CO2

\$111,600

Projected Lifetime Net Operational Savings*

Vehicle Type and Use:
Goshen Coach 24 passenger shuttles built on Ford E-450 platform



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