

Fast Facts about AmerenUE's First-Ever Hybrid Truck

AmerenUE is one of the first utilities in the nation to place in service a hybrid bucket truck that uses both diesel fuel and electricity. The truck will be used in the St. Louis metropolitan area to repair and maintain UE power lines. Here are some key facts about this very energy efficient, one-of-a-kind work truck.

Basic Information

- Fuel Source: Electricity stored in lithium batteries and diesel fuel.
- Fuel Economy: 30-50 percent less diesel fuel used than conventional trucks.
- Emissions Reduction: Approximately 50 percent reduction in smog-forming emissions and less global warming gases emitted compared to a conventional truck.
- Gross Vehicle Weight Rating: 33,000 lbs.
- Cost: Up front, about 35 percent more than a similar conventional truck — but because of fuel savings, its lifecycle cost is less than or equal to that of a conventional diesel truck.

How It Works:

- An advanced electric motor is coupled with an efficient automated manual transmission, an energy control and management system, advanced lithium batteries and a power export system.
- These components are coupled to a conventional diesel engine.
- During braking, the hybrid-electric system recovers energy, while power is added back during launch and acceleration. This makes the truck more efficient, especially in stop-and-go city driving.
- The hydraulic bucket can be operated for up to one hour with the engine off. With conventional trucks, the engine must be idling to power the bucket.

Did You Know That AmerenUE's Hybrid Truck . . .

- has about the same payload capacity as conventional trucks?
- has about the same body as conventional trucks but uses an extended cab?
- meets or exceeds 2007 U.S. Environmental Protection Agency emission standards?
- operates more quietly than conventional trucks?
- performs as well as a conventional truck?
- meets or exceeds standards for reliability, durability, maintainability and reparability?

