

COMMONWEALTH EDISON (COMED) FLEET CASE STUDY

Commonwealth Edison (ComEd) received \$384,000 in voucher incentives through Drive Clean Chicago for the purchase of six (6) Plug-in Hybrid Electric Vehicle (PHEV) systems from Odyne Hybrid Systems. The PHEV systems reduce idling, provide zero-emission HVAC and exportable power at the worksite, and save and produce energy through regenerative braking.



FLEET PROFILE

Name	Commonwealth Edison
Services	Utility and Energy Delivery
Employees	5,000+
Area Covered	Northern Illinois
Voucher Amount	\$384,000
Technology	Hybrid-Electric

Company Profile

Commonwealth Edison (ComEd), a subsidiary of Exelon Corporation, is the largest electric utility provider in the state of Illinois. ComEd provides service to approximately 3.8 million customers (70% of the state's population) in the Chicago and Northern Illinois area. To safely provide electricity throughout 400 municipalities and 25 counties, ComEd relies on its fleet of 4,700 vehicles to cover a territory of 11,411 square miles. ComEd's fleet comprise of utility trucks, service and passenger vehicles. Since the late 1990's, ComEd has demonstrated a variety of alternative fuels and clean vehicle technologies to improve its fleet efficiency, reduce emissions, and promote sustainability.

Business Case for Clean Vehicles

By integrating Odyne's PTO-based (Power Take Off) Plug-in Hybrid Electric Vehicle (PHEV) system with the Allison Transmission onto six utility trucks, ComEd is able to improve fuel efficiency and eliminate idling at the worksite. While operating on the highway, the PHEV system works in parallel with the diesel engine to maximize fuel efficiency and produce energy for the electric batteries through regenerative braking. At the worksite, the PHEV system provides zero-emission HVAC and exportable power to assist with maintenance and repair services. Compared to an all-diesel utility truck, the PHEV system saves ComEd close to ten gallons of fuel within a 12 hour shift per truck.

Serving the Community

Participating in Drive Clean Chicago and other important incentive programs has helped ComEd transition cleaner vehicle technologies into its fleet. ComEd has also experienced positive user-acceptance from employees responsible for operating the Odyne PHEV utility trucks. Not only are the systems quieter and easier to operate, but it saves operators time with less frequent fueling. These PHEV systems help ComEd save on fuel costs, reduce local impact, and promote cleaner air in the communities it serves.

About Drive Clean Chicago

The Drive Clean Chicago Program (DCC) is a unique and streamlined incentive program to help create a roadmap for a greater alternative fuel transportation network for Chicago. DCC accomplishes this by addressing the biggest barrier to the purchase of medium- and heavy-duty advanced trucks: the high incremental cost of these vehicles in the early market years when production volumes are still low. All fleets are eligible, whether they're public or private, large or small.

