

# Fleet Electrification Case Study



## Intermountain Health

### FLEET PROFILE

- Type of fleet: Shuttle vans, box trucks, heavy-duty tractor trailers
- Number of vehicles analyzed: 34
- Location: Salt Lake City, Utah
- Parking: Depot parking at multiple locations

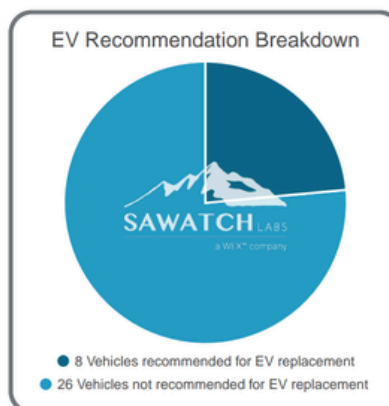
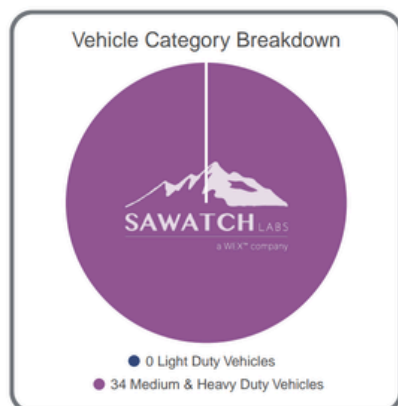


Medium- and heavy-duty (MHD) vehicles are a major contributor to air pollutants and greenhouse gas emissions. Electrifying fleets is one of many important solutions to improve our air quality and address climate change. Fleet electrification is also a growing priority for many local governments and businesses. However, there are many barriers to fleet electrification, especially MHD vehicles.

Utah Clean Energy, supported by funding from the Utah Governor's Office of Economic Opportunity, partnered with Merge Electric Fleet Solutions to provide Intermountain Health (IHC) with a fleet electrification analysis. The core of this analysis is based on output from an industry-leading telematics data analytics platform by Sawatch Labs, a WEX company, that uses historical vehicle-by-vehicle driving patterns to forecast how EVs would perform in the same role.

Intermountain Health is the largest non-profit health system in the Intermountain West. Based in Salt Lake City, Intermountain operates 22 hospitals in Utah and serves patients in Idaho, Montana, Wyoming, Nevada, Utah, and Colorado. Intermountain prioritizes sustainability work, with a focus on decarbonization, energy stewardship, and more. They began electrifying their light-duty fleet in 2018 and today, 19% of the fleet is alternatively fueled (either electric or hybrid). This study focused on medium- and heavy-duty vehicles used for patient transportation and supply chain delivery, encompassing operations in multiple locations throughout Utah.

**8**  
**EV Ready Vehicles**  
**Group:** All Vehicles  
**Category:** All Vehicles



**GHG Emissions Reduction\***  
▼ 1,729 Tons

**TCO Savings\***  
▼ \$530,000

\*Estimated lifetime impact of replacing your 8 EV Candidates.

This initiative was made possible with support from the Governor's Office of Economic Opportunity. Technical assistance was provided by Merge Electric Fleet Solutions. The analysis was performed by Merge Electric Fleet Solutions ([www.mergefleet.com](http://www.mergefleet.com)) using software and output by Sawatch Labs, a Wex Company ([www.sawatchlabs.com](http://www.sawatchlabs.com))



**Governor's Office of Economic Opportunity**

**MERGE**  
ELECTRIC FLEET SOLUTIONS

# Opportunities

- Many of the shuttle vans used for patient transportation are excellent candidates for near-term electrification. These vehicles received high scores in energy, parking, and economics - meaning that no midday charging is needed and EVs will lead to a 10% savings over the vehicles' lifetime. Consistent parking can facilitate the deployment of streamlined charging infrastructure.
- One medium-duty truck is also a candidate for electrification. This vehicle is used for supply chain delivery and would not require midday charging since it is parked in one location consistently. There is a higher total cost of ownership for an EV model comparable to the current ICE vehicle, but the significant savings from electrified shuttles could offset the higher cost of this electric box truck.

## Unique Aspects of IHC's fleet

- This fleet is made up of a variety of vehicle types and use cases, including shuttles, box trucks, and day cab haulers.
- IHC has started to electrify light-duty fleets and has charging infrastructure available for community and staff.
- There is potential to scale the results of this fleet study to locations outside of Utah.

# Challenges

- At the time of this study, most of the MHD vehicles analyzed are not good candidates for electrification. This is primarily due to a price premium for comparable EVs, as well as a lack of charging infrastructure to facilitate midday charging needs. Both of these conditions are expected to become more feasible with time as the MHD EV market matures and demand for charging increases.

*"Working with Utah Clean Energy and Merge on this EV analysis was a great experience. The results of the analysis helped illustrate a plan that would help get electric vehicles into our fleet where it made the most sense and helped us plan ahead. This analysis helped take the guess work out of the process."*

**- Tyler Karren, Fleet Management Program Manager**

# What's Next?

- IHC has plans to purchase multiple Chevy Brightdrops for courier and patient transportation in 2026.
- IHC is looking to deploy new smart charging infrastructure to support fleet charging as well as community and staff charging. The availability of incentives is a key factor in this aspect of IHC's plans.

*Updated 01/2026*