

Walmart Sustainability Initiatives

Refrigerated Trailers and Tractors

Doug Estrada

Senior Director Supply Chain

Walmart Private Fleet

Global Responsibility

- At Walmart, we aim to use our strengths and collaborate with others to transform the systems on which we all rely, including advancing our ambitious commitments and goals within the priority areas of [opportunity, sustainability and community](#). We believe that our work in these areas is not only beneficial for our business bottom line, but also creates shared value for customers and society.
- Beyond producing a whole systems change and shared value, [our approach](#) to global responsibility also underscores the importance of true integration into our core business, drawing upon our core capabilities and strengths, and collective action through collaboration with supplier and industry partners, and key stakeholders.

Electric Refrigerated Trailers



- Used to run the refrigeration system on electric versus diesel power when a trailer is stationary
- Expected benefits include:
 - Emissions reductions
 - Fuel cost savings
 - Maintenance reductions
- Current challenges:
 - Few charging receptacles have human and equipment safety built-in
 - Cost of infrastructure

Auxiliary Power Units



- Provides power for driver amenities while the truck is stopped
 - A/C and heat
 - Hotel load
- Standard on all sleeper trucks
- ThermoKing TriPac
- Uses about 1/10th of the fuel per hour as the main engine

Tesla Electric Trucks

- Battery operated
- Positives –
 - equal to or greater torque and operating needs
 - Zero emissions
 - Quick charging process takes 30 minutes to equal 80%
- Negatives
 - 300 -350 mile distance under a full gross unit
 - Requires high voltage charging stations – minimal locations



