

Nashville's Battery Electric Bus Experience

Presented by Rick Dooley
Sept 10, 2018

9/12/18



Statistics

- Total fleet miles = 305,439
- Total number of charges = 36,909
- Average charge time = 3.5min
- Weekly mileage = 2,500
- Fuel Economy = 13MPGe
- Diesel Fuel saved = >70,000gal
- GHG emissions prevented - >3,500,000

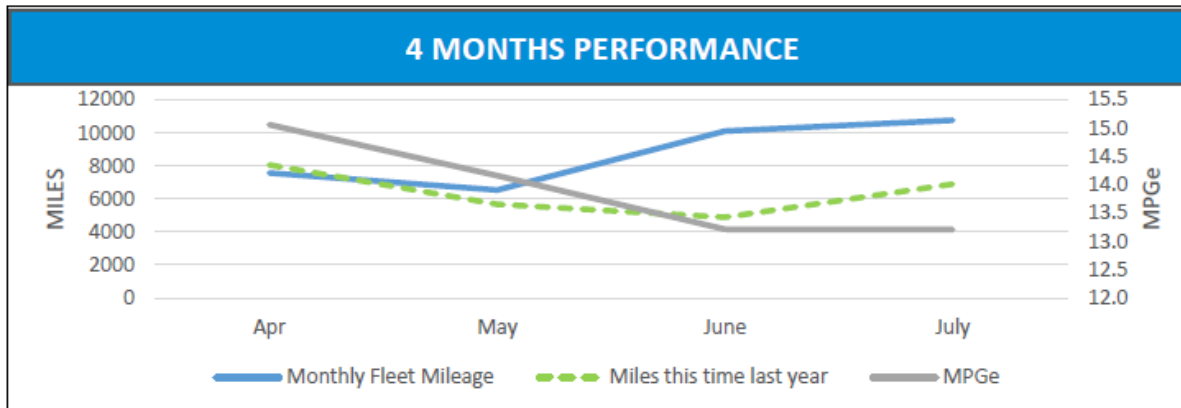
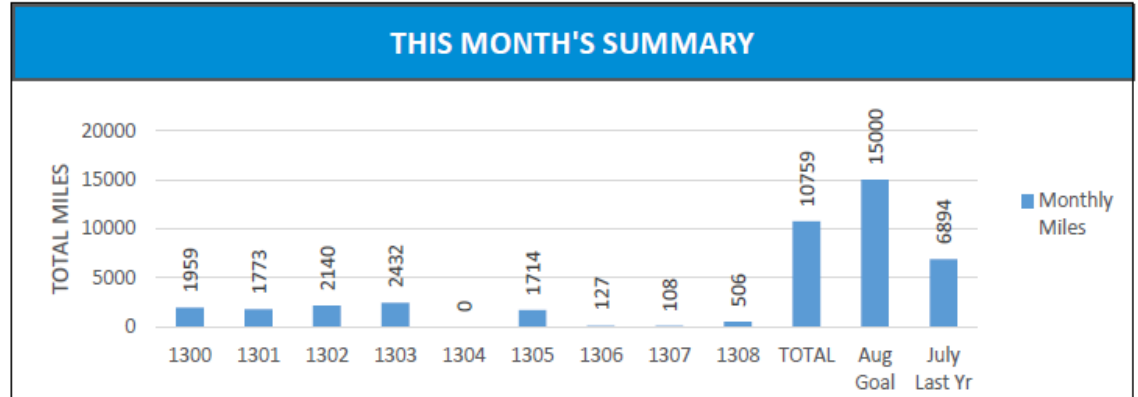


July Performance

From Jul 1 to Jul 29 2018

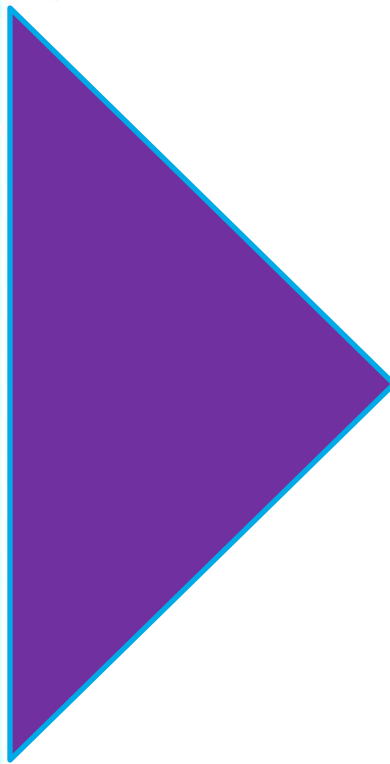
Miles Driven (28 day cycle)	10,759
Compare to month goal of 12000	Below - 1304
Equivalent Diesel Fuel Saved* (gal)	2,759
Aug Goal (35 day cycle)	15000 miles

*Assume diesel bus fuel economy 3.9 mpg.



Go Green

Bus	Mileage as of (7/23/18)
1300	30,088
1301	34,506
1302	32,239
1303	42,222
1304	29,267
1305	38,828
1306	25,793
1307	38,786
1308	33,709
TOTAL	305,438
Charges	36,909
Monthly Actions	Monitored buses in service



Charging Forward

Your green thumb

On average, two gallons of diesel fuel creates as many pounds of carbon dioxide as a tree sequesters in one year. This month you saved 61794 lbs of greenhouse gases. It's like you planted:



1287 trees

Lessons Learned

- Location, Location, Location
 - ❖ Riverfront is a great location....except during
 - » 4th of July
 - » CMA's (2 weeks)
 - » New Year's Eve
 - » Predators making the Playoffs
 - » Music City Marathon
 - » NFL Draft
 - » And any other ask by Metro
 - » Added a second station in 2018



Lessons Learned

- Utilities

- ❖ Coordination with Utility Partners

- » Fleet Delivered and Charging Station installed in August of 2014
- » Nashville Electric had another project in the same area that took priority.
- » Electric Power installed in the fall of 2015
- » Fleet went in service in November of 2015
- » 15 months of effort to keep vehicle systems active
- » See Location, Location, Location