



## **Hybrid Verses Diesel Cost and Benefit Comparison**

1. Useful Life for all Transit buses is 12 years or 500,000 miles (Hybrid and Diesel)
2. The difference between the 35ft Low Floor Hybrid and a 35ft Low Floor Diesel bus would range from \$200k-\$300k.
  - Fayetteville recently purchased the 35ft Low Diesel bus from Gillig at \$474,368. (2020)
  - High Point paid \$467,639 for a 35ft Low Floor Diesel (2019)
  - WSTA's request to purchase 35ft Hybrid diesel buses is at \$793,624 per bus. We realize the cost is higher for a Hybrid bus but the benefits, listed below and shown on the following charts, and the additional specifications which include the retrofit driver shields and a five (5) year warranty on the engine and hybrid system support the cost difference.

### **What are the benefits of hybrid buses?**

- Reduced Emissions - Hybrid buses are estimated to cut emissions by as much as 75 percent when compared to conventional diesel buses
- Increased efficiency
- Decreased maintenance costs

The following charts display a 12-month evaluation period conducted by FTA. This evaluation gathered data from four bus types; Electric, Hybrid, Diesel and Trolley.

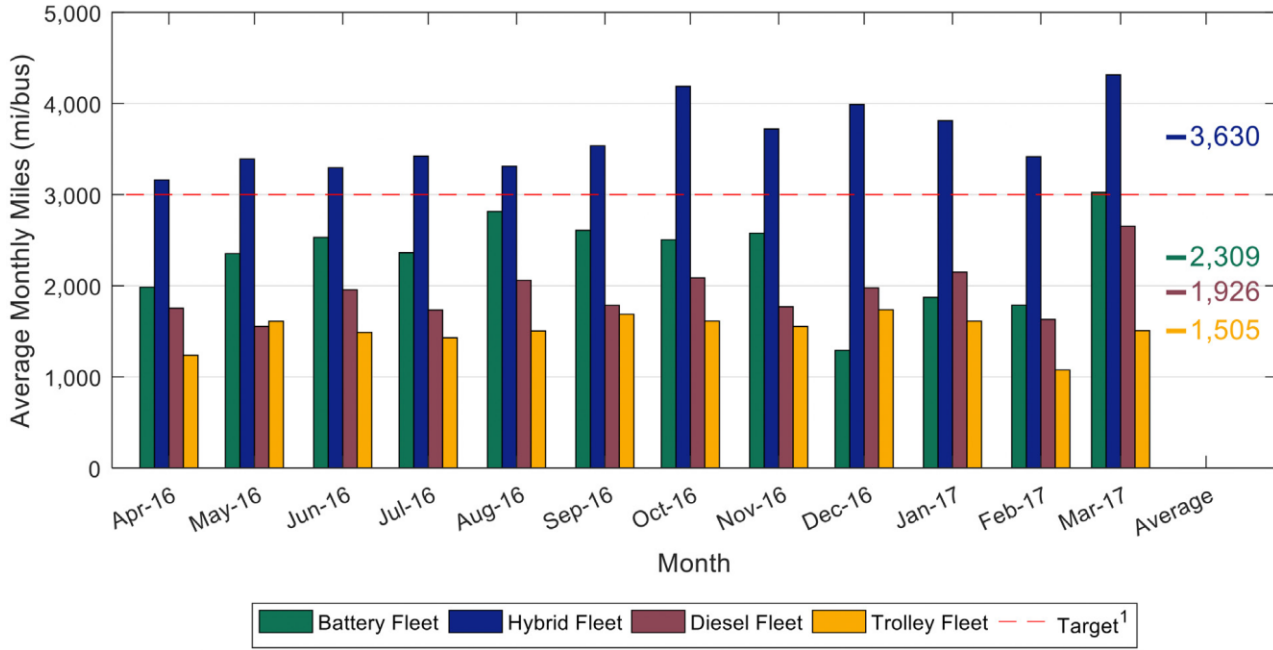
**Chart #1** shows the average monthly miles.

**Chart #2** shows the percentage of time the different buses were available to operate in revenue service which supports the decreased maintenance needs per bus type.

These are just a couple of many concerns for WSTA for overall bus reliability, etc. that are taken into consideration when considering the purchase of new vehicles. The full report is available on the FTA website.

**Buses ■ Mobility Manager Program ■ Trans-AID**

**Chart #1**



**Chart #2**

