

# Hybrid Bus Fact Sheet

## Quick Stats:

- Manufactured by California-based GILLIG Corporation
- Diesel-fueled combustion engine built by Cummins
- Hybrid propulsion technology from Allison Transmission
- Fuel capacity of 120 gallons (ultra low-sulfur diesel fuel)
- Same reliability as traditional propulsion engine bus
- Life cycle of 12 years; same as a conventional diesel bus
- Hybrid bus cost \$600,000 each
- Trolley bus cost \$655,000 each

Alexandria Transit's first clean diesel hybrid electric DASH buses have arrived! The DASH buses will operate on an environmentally friendly mix of ultra-low sulfur clean diesel and electricity.

The hybrid buses feature a wider body, low floor entry, bike racks, improved mirrors, and wheelchair ramps instead of lifts. The purchase consists of seven 35-foot hybrid buses and three 40-foot hybrid buses. In addition, Alexandria Transit has also purchased five 30-foot hybrid trolleys. The 40 foot buses will operate on the AT8 route, where increases in ridership have led to overcrowding on a number of trips. The trolleys will go in to service in April 2012, when DASH will begin operating the King Street Trolley. The DASH buses will operate on an environmentally friendly mix of ultra-low sulfur diesel and electricity.

## Hybrid Benefits:

- Reduced air pollutant emissions equals a cleaner environment and fewer public health issues
- Reduced fuel consumption
- Reduced maintenance required
- Average reduction of 2,000 gallons of diesel fuel consumed each year per bus
- The hybrid low floor design (no steps) makes for easier access and quicker passenger boardings
- Design includes a wheelchair ramp instead of a hydraulic lift for better reliability and access
- Smoother ride, quicker acceleration, increased transmission and brake life, and reduced engine noise
- Customers will notice a more spacious and accessible interior

## How Hybrid Buses Work:

- Diesel-electric hybrid buses use electricity and diesel fuel
- A regenerative braking system recharges the batteries and increases brake life
- A computer controls the efficient mix of the diesel and electric power

## Purchasing Information:

The hybrid buses were purchased primarily with Commonwealth of Virginia State Urban Funds. Alexandria Transit also partnered with the City of Alexandria Department Transportation and Environmental Services, Office of Environmental Quality and secured an EPA Stimulus Grant that funds the difference in the cost between the hybrid technology and a conventional diesel powered engine, a difference of approximately \$200,000 per bus. The five trolley buses were purchased with American Reinvestment and Recovery Act (ARRA) Stimulus funds.



## Contact Us:

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