CNG AND HYDROGEN FUEL CELLS

CLEANER

SARTA

GREENER
Proline Ridership Profile

Proline Origin Locations - October 2009
- Within 1/4 mile of SARTA Fixed Route
- More than 1/4 mile from SARTA Fixed Route

- Township
- Village
- City

Source: October 2009 Proline Data
SARTA Key Facts

• Transport 2.8 million passengers in 2016
• 212 employees
• $22 million budget
• Operates express routes to Akron and Cleveland (the longest route in Ohio)
• 30 routes and countywide paratransit
• Extensive use of technology
History of Innovation

- Conducted Evaluation of Diesel Electric Hybrids
- Evaluation of dual fuel CNG
- Largest Solar Array in Ohio
- First system in Ohio to have own app
- LEED certified buildings
SARTA Vehicle Types

- 7 H2 Fuel Cell buses
- 11 CNG Paratransit
- 11 CNG MV1
- 8 GNG transit buses
- 3 CNG Honda Civics
- 3 CNG Chrysler Town & County
- 4 Diesel Electric Hybrids
- 1 Diesel/CNG Duel Fuel
- 33 buses use B5 bio diesel
SARTA Initiatives

Going GREEN – Hybrid Vehicles, Bike Racks on Buses
SARTA Fuel Cell Bus
National Fuel Cell Bus Program

- Part of a $90 million Federal Transit Administration program
- Goal is to demonstrate fuel cell buses
- Set goals for performance and demonstration of vehicles
- Deployed vehicles IN NY, CA, MA, and SC
- 2 fuel cell buses will be in Canton
- Total federal funding is $5.54 million
Reliability Testing

• Second bus will be put through FTA’s required durability test at Altoona,
• This is required for any vehicle to be offered commercially as a production vehicle.
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Bus at the Statehouse
System Layout
Fuel cell and converter
Inside Fuel Cell Bus
Hydrogen compressors
Compressor Pad
Station Controls
Hydrogen Station at UC Irvine
Fuel Cell Car