

Renewable Energy Conference Jeff Nelson, General Manager November 9, 2018

#### MetroLINK – At a Glance



- Illinois Quad Cities multi-city transit authority, serving
  Moline, Rock Island, East Moline, Silvis, Hampton, Carbon Cliff,
  Colona, and Milan
- Operate 12 fixed-routes with a fleet of 60 coaches, 15 paratransit fleet, 3 passenger ferryboats
- Sustainability vision to be a leader in developing a sustainable Quad
   Cities via voluntary efforts to reduce vehicle emissions through alternative
   fuels, build efficient and sustainable infrastructure, and communicate
   transit benefits to the community



### **Sustainability Initiatives**

- All new infrastructure designed to USGBC LEED standards
- Operations and Maintenance Center features:
  - 1,344 individual, 255 W solar panels capable of producing 342.72kWp supplies a portion of the building's electrical needs
  - 32 solar panels supply all hot water needs
  - Bus wash with state of the art water reclamation
  - Energy recovery system, radiant floor slabs
  - Daylighting, occupancy controlled lighting, low VOC carpets, paints, adhesives, and composite materials
  - Bioswales to control storm water runoff
  - CNG fueling system and battery electric bus charging stations
- Mixed-fleet of alternative fuel vehicles including clean-burning diesel, (1998) compressed natural gas (2002), and battery electric technology (2018), hybrid electric paratransit vans (2010), bio-diesel (ferryboats)
- Public Relations campaigns and key community partnerships to support sustainability efforts (John Deere, MidAmerican Energy)
- American Public Transportation Association Sustainability Commitment



# **Budget Impacts**

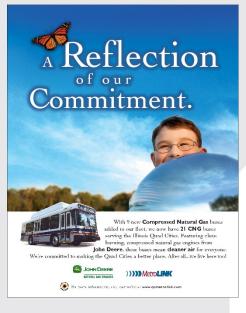
- Average cost per mile by fuel type:
  - Diesel \$1.28
  - CNG \$.83
  - Electric \$.32
- Rooftop solar array has provided \$169,211 in savings to date.





### Public Education Campaign (CNG Bus, 2003-2009)









## **Education Campaign (Proterra Electric Bus 2018)**

- Employee launch event: 3/1/18
- Public/media launch event: 4/16/18 at SouthPark Mall







#### **Lessons Learned**

- Learning curve for staff on building and vehicle systems
- Research, research vendor qualifications garner input from other users of a proposed system or vehicle
- Utilize all funding sources available (rebate programs, clean energy grants, leasing, etc.)
- Engagement and education of staff early on is key to success
- Public education critical component
- Technology is evolving quickly

