



# Alternative Fuel Technologies at the ***TRANSIT AUTHORITY OF RIVER CITY***



# ***TARC at a Glance***



- **14.97 million customers - FY13**
- **46,700 avg. daily weekday riders – FY13**
- **41 routes in 5 counties in 2 states**
- **226 buses (32 hybrid buses) 10 trolleys electric buses, 95 paratransit vehicles**
- **640 team members**





# Hybrid Bus Sources of Funding

Discretionary Bus Capital Awards:

\$3.47 million from 2001 & 2006

Clean Fuels Program Awards:

\$6.98 million from 2006-2011

CMAQ Awards:

\$2.64 million in 2006 & 2011

ARRA:

\$3.91 million in 2010





1998 Chance Trolley

tarc

zeroBUS









**ZEROBUS** tarc







# Point Source Emissions Reductions

(pounds per year)

VOC	CO	NOx	PM10	PM 2.5
197.39	939.05	2170.53	124.16	120.44



# THE FUTURE IS LANDING IN LOUISVILLE





} **35 FEET**  
**31 SEATS**

## **Zero Emissions, All-Electric**

Quiet, clean way around downtown  
on Main, Market & Fourth streets



## **ZeroBus Sources of Funding**

\$4.4 million Clean Fuels Program award

\$4.4 million CMAQ award

\$2.2 million local funds





# ***Solar Strategy***

## **One ZeroBus Uses:**

**Average ZeroBus  
kWh/mile**

**2.2**

**Average Daily  
Travel**

**100 miles**

**Average ZeroBus  
kWh/day/bus**

**220**

## **2MW Array Produces:**

**kWh/yr**

**2,320,721**

**kWh/day**

**6,358**

**Number of buses for which energy use can be offset =**

**29**