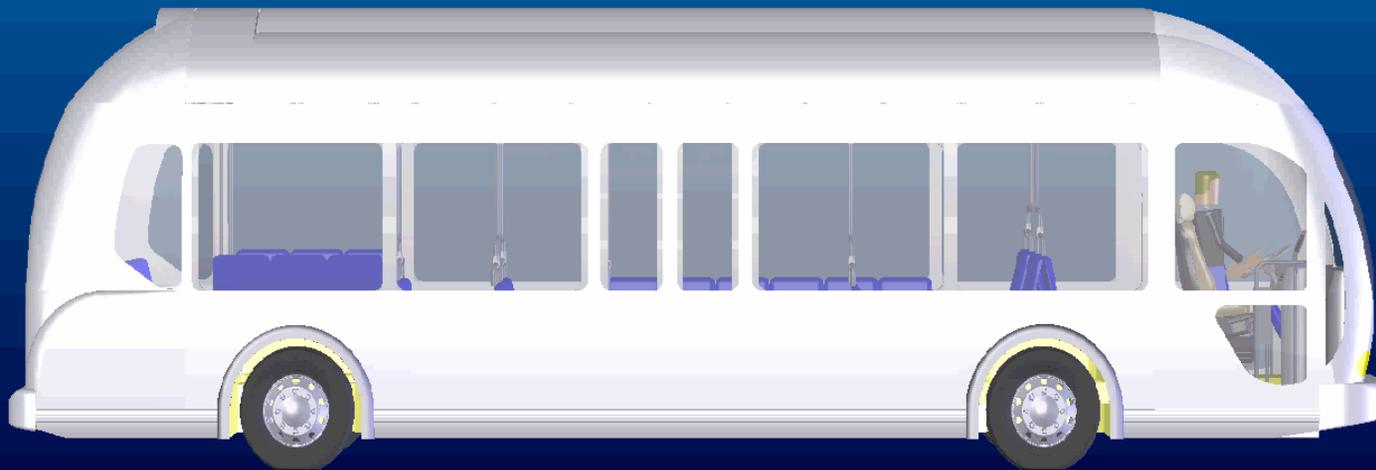


# *M*obile *E*nergy *S*olutions<sup>LLC</sup>



*Mobilizing the Globe with Clean, Efficient Energy*

Presented by:  
Dale Hill - President



rotation1

## ***Designing a Zero Emission Bus***

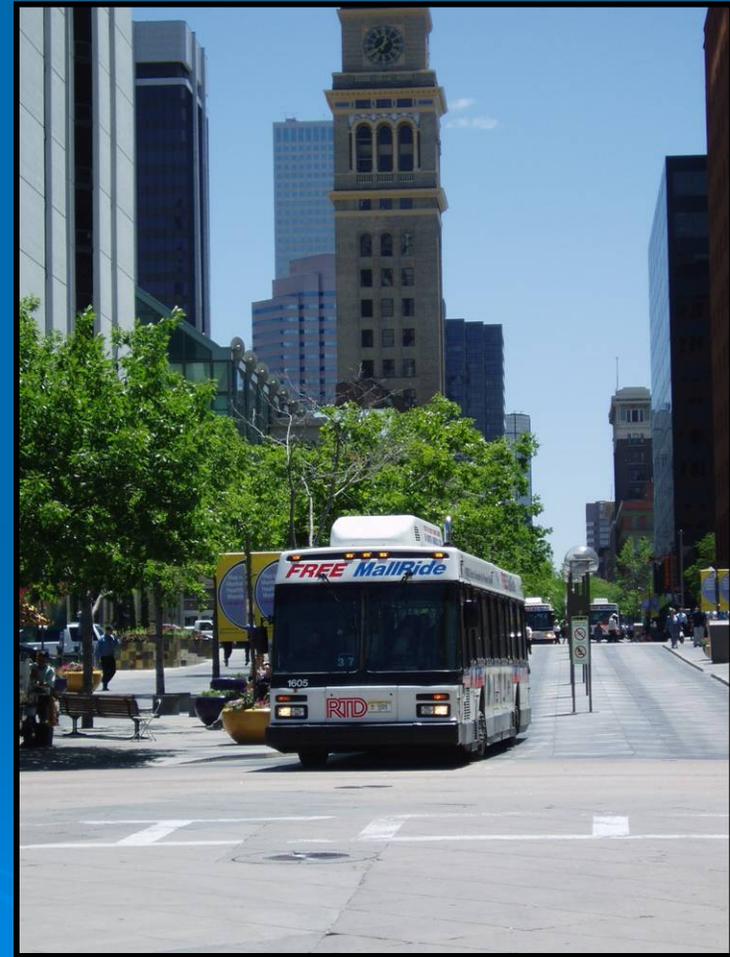
- *Fuel Cells vs. Batteries*
- *Retrofit Vehicle vs. Purpose Built Vehicle*
- *Reduced Vehicle Weight = Reduced Energy Required*
- *Result – Purpose Built, Composite Bodied, “Plug IN”, Battery Dominant, Hybrid Electric Fuel Cell Vehicle*



*The same team that created and manufactured the Denver 16<sup>th</sup> St Mall shuttles from inception thru limited Altoona testing and into production in 27 months*

# The Denver Mall Shuttles

- *Now in their 7<sup>th</sup> successful year of operation*
- *Transporting 65,000 passengers/day, 125,000,000 to date*
- *Still the world's largest and most successful alternative fueled hybrid electric transit project*

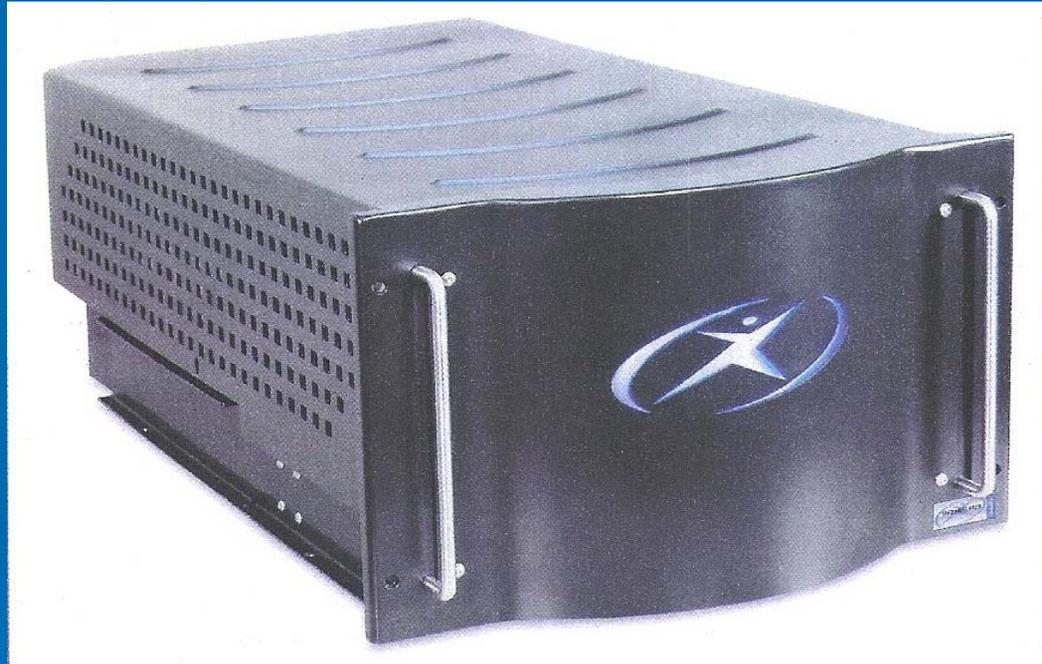


35 ft. Bus that is “White Book” compliant



*Conceptual Rendering*

- *Phase One* -  
Use Automotive Type  
Fuel Cell



# Panelized Construction for Remote Assembly

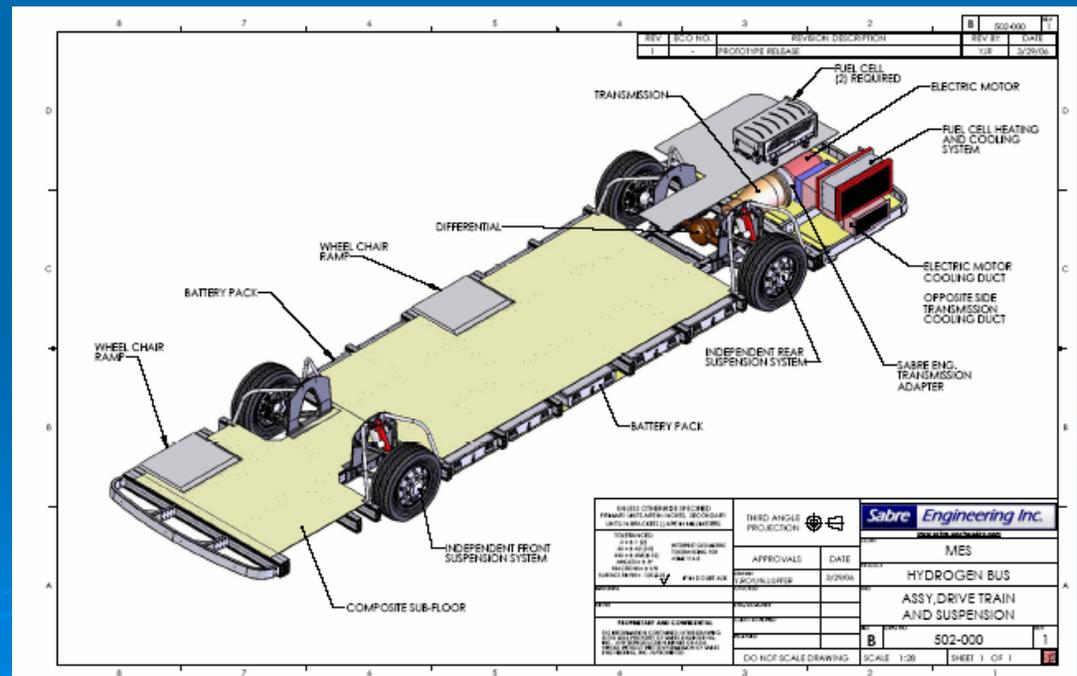


➤ **Weight to be less than  
20,000 pounds  
*minus passengers.***



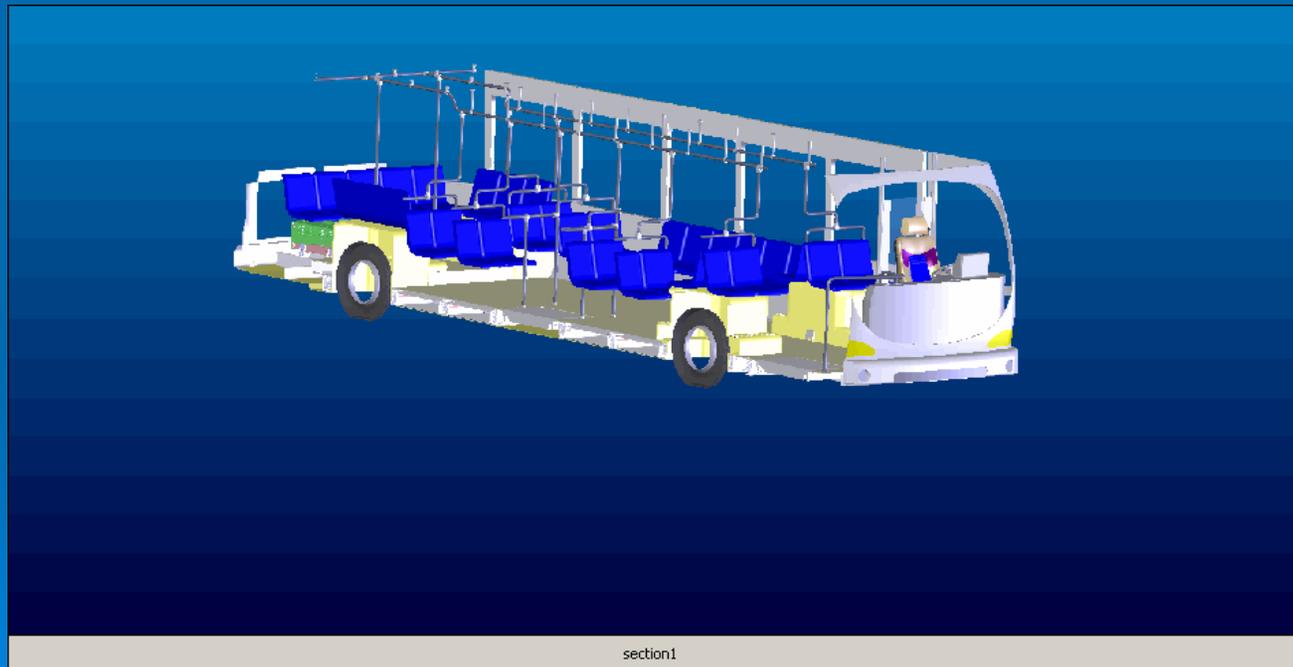
*Conceptual Rendering*

*Drive system to be state of the art  
for weight and space savings  
while offering  
acceptable  
transit  
dependability  
and  
affordability*

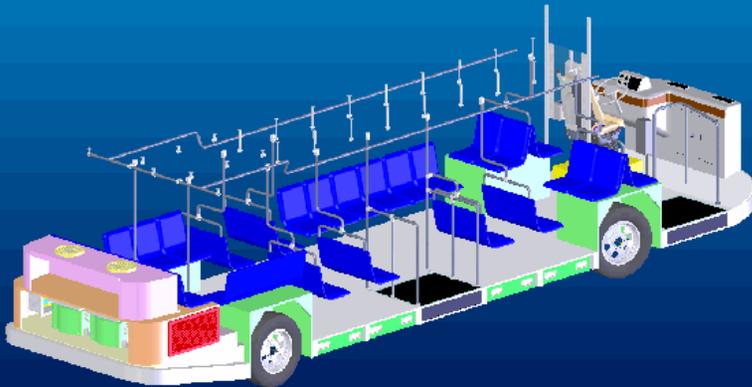


- *Very latest in electronics with ability to accept new technology as it comes on line*

# ➤ Seating Capacity for 37



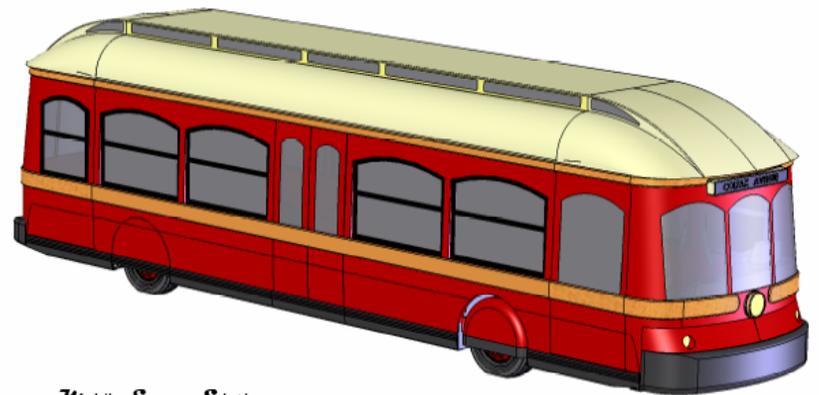
- *Standardized bus platform, body and drive components allowing the acceptance of not only modern European body shell, but also vintage trolley type body panels*



GeneralArrangement

*Conceptual Rendering*

TROLLEY BUS



**Mobile Energy Solutions**  
Mobilizing the Globe with Clean, Efficient Energy  
26497 Florence Farm Rd.  
Cordoba, CO 80433  
303.276.6627  
www.mobileenergysolutions.com

- *The ability to have real time access to all bus function data, as well as speed and other information through an on-board telemetry system, which allows the maintenance technicians to communicate with the bus, while it is still in service. This will allow the maintenance needs to be determined, and performed at the end of each shift.*

# Thank You

