

Calculation of Proposed Energy Economy Ratio (EER) for Electric Buses
Under the Low Carbon Fuel Standard Regulation

November 2014

- Based on test data for two electric buses operating in California
 - Proterra Electric Bus
 - BYD Electric Bus
- Testing performed at the Altoona Pennsylvania Transportation Institute at Penn State Test Track
- One diesel bus tested: New Flyer Diesel
- Three test cycles used for each bus
 - Central Business District
 - Arterial
 - Commuter
- Average fuel economies across the three test cycles
 - Proterra Electric Bus: 21.72 mpg (diesel equivalent)
 - BYD Electric Bus: 18.94 mpg (diesel equivalent)
 - New Flyer Diesel Bus: 4.82 mpg diesel
- Technology Specific EERs
 - Proterra: 4.5
 - BYD Electric Bus: 3.9
- Average EER for Electric Buses: 4.2

	Proterra	BYD	New Flyer Diesel
Altoona Average MPGe	21.7	18.9	4.8
EER Avg	4.5	3.9	
Average EER	4.2		

- URLs for Studies
 - Proterra Electric Bus:
<http://www.altoonabustest.com/buses/reports/404.pdf?1340301410> (Page 112)
 - BYD Electric Bus:
<http://www.altoonabustest.com/buses/reports/441.pdf?1340301410> (Page 141)
 - New Flyer Diesel Bus:
<http://www.altoonabustest.com/buses/reports/416.pdf?1340301410> (Page 41)