



## The Aluminum Association's Aluminum Transportation Group (ATG)



### ALUMINUM NEWS

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#### New Study Details Fuel and Payload Savings with Aluminum

A [new study](#) conducted by Ricardo, Inc. for the Aluminum Transportation Group, confirms the fuel efficiency benefits of lightweighting with aluminum on Class 8 Trucks and Trailers. The study asserts that up to 3,300 lbs can be saved with aluminum, which allows an additional 6.5 percent increase of payload at gross vehicle weight. [Reducing weight with aluminum](#) could also mean a savings of 1,612 gallons of fuel and nearly 18 tons of CO<sub>2</sub> can be achieved annually.

#### Weight Reduction Critical to Meeting CAFE Regulations



The Obama Administration [recently announced](#) future fuel economy plans for 2014-18 model medium- and heavy-duty trucks and buses, as well as 2017-25 model cars and light trucks. The [ATG released a statement](#) expressing support of the initiative, and highlighting the benefits of a holistic approach including weight savings with aluminum. Attaining more fuel-efficient fleets can be achieved while increasing safety with the use of lightweight aluminum. The administration is expected to announce standards by September 2010.

#### Case Study: China Bus Project

Aluminum's benefits in commercial vehicles were tested through a demo bus developed for Asian markets. The bus, equipped with an aluminum body frame, wheels and fasteners, was tested for durability, performance and safety. [Results included.](#)

August 10, 2010



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#### CALENDAR OF EVENTS

##### Safety Management Council Safety & HR National Conference & Exhibition

September 27-29, 2010  
Rogers, AR

##### Society of Automotive Engineers Commercial Vehicle Engineering Congress

October 5-6, 2010  
Rosemont, IL

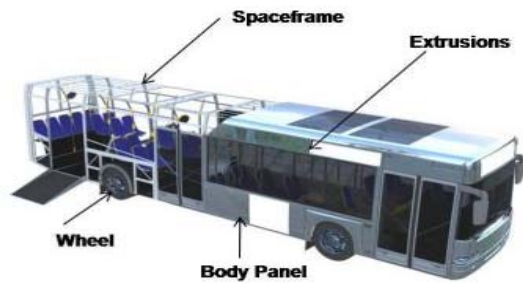


### FAST FACTS

#### Increasing Fleet Performance with Aluminum

Aluminum provides a reduced weight advantage allowing companies to maximize the performance capabilities of their fleets. By exploring the [advantages of lightweighting](#) with aluminum, real value and benefits can be achieved. Consider:

- A reduced weight of 46 percent more than that of a steel bodied bus.
- A six percent fuel economy improvement.
- An over 50 ton CO<sub>2</sub> emissions savings over the lifetime of the vehicle.



- A one ton weight reduction in Class 8 Tractor-Trailers can equal up to a 3,400 gallon fuel savings over the lifecycle of the vehicle.
- For every pound of aluminum used, 18 pounds of CO<sub>2</sub> is saved.
- Aluminum naturally generates a highly corrosion resistant, protective coating.

### Achieving More with Less

For more than 30 years, manufacturers have looked to aluminum to help [increase payload considerations](#). East Manufacturing's [MMX flatbed](#) demonstrates the potential for aluminum applications. The MMX flatbed weights 56 percent less than high tensile strength steel, and 68 percent less than mild steel. Here the use of low weight, high-strength aluminum offers an equally strong flatbed that is rated to handle loads up to 72,000 pounds concentrated in four feet on a 48-foot long trailer, and up to 145,000 pounds distributed (multi-axle).

The Aluminum Association's Aluminum Transportation Group (ATG) communicates the benefits of aluminum in ground transportation to help accelerate its penetration through research programs and related outreach activities. Member companies include: [Alcoa Inc.](#), [Novelis Inc.](#), [Rio Tinto Alcan Inc.](#), [Aluminum Precision Products](#), [Kaiser Aluminum Corporation](#) and [Sapa Group](#).

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