

July 2016 Update

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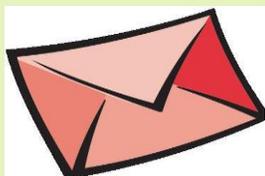


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Chris Trajkovski of C&S Wholesale Grocers delivers the keynote address.



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An impressive vehicle display!



Choice array of electric cars.

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### ***Upcoming Events:***

#### **Sustainable Transportation Summit, July 11,12,**

**2016, Washington, DC.** For more information about this U.S. Department of Energy conference, click [here](#).

#### **Clean Cities Stakeholder Meeting, July 19, 2016, Providence,**

**RI.** 9:45 a.m. to 12:00 p.m. Ocean State Clean Cities Coalition is holding a meeting at the URI campus featuring presenters on DERA, SmartWay, and Clean Freight Corridors. To register to attend, [click here](#).

#### **Northeast Propane Show, August 10, 11, 2016 Boxborough, MA.**

Be sure to visit the Clean Cities booth! For more information on this event, [click here](#).

***New Hampshire Celebrates DRIVE ELECTRIC WEEK!\_Saturday, September 17, 2016, Concord, NH.*** National Drive Electric Week will be celebrated once again at City Plaza in Concord (next to the Farmers Market) 8:30 a.m.- noon. Bring your plug-in vehicle to display or come to peruse the display of electric transportation. For more information and other Drive Electric Week events, click [here](#).

#### ***AltWheels Fleet Day, Monday, September 19, 2016, Norwood, MA.***

Click [here](#) to register!

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## ***News of Interest:***

**GSCCC Announces Northern Star Awardees.** Eastern Propane and the University of New Hampshire (UNH) received recognition awards at the June 10th Green Your Fleet! workshop at NH Motor Speedway. Mike Gagne, Fleet Manager for Eastern Propane, accepted the "Northern Stars" award plaque on behalf of the company. Mike Hyson, Assistant Manager of Transit Operations for UNH, accepted the "Rising Stars" award plaque on behalf of the university. Both organizations have a large fleet of alternative fuel vehicles, and have demonstrated a deep commitment to the promotion of cleaner transportation fuels. For more information about the Northern Stars of the Northeast program click [here](#).



Eastern Propane staff, Northern Star awardees.



Jay Joseph, GSCCC Advisory Board member, presents UNH's Mark Hyson with the Rising Star award.

### **Question of the Month: *What vehicle tire strategies and technologies are available to save fuel?***

**Answer:** It's easy to understand why tires are essential to a vehicle, but tires also play an important role in your vehicle's fuel economy. Tires affect resistance on the road and, therefore, how hard the engine needs to work to move the vehicle. By maintaining proper tire inflation or investing in low rolling resistance or super-single tires, you can improve your vehicle's fuel economy. Whether you drive a light-duty vehicle (LDV) or heavy-duty vehicle (HDV), there is a tire strategy or technology to help you increase your miles per gallon (mpg).

#### **Proper Tire Inflation**

Properly inflated tires increase fuel economy, last longer, and are safer. Oak Ridge National Laboratory estimates that you can improve your gas mileage by up to 3.3% by keeping your tires inflated to the proper pressure. In fact, under-inflated tires can lower gas mileage by up to 0.3% for every one pound per square inch drop in pressure in all four tires. It is especially important to keep an eye on tire pressure in cold weather because when the air becomes cold, the tire pressure decreases.

You can find the proper tire pressure for your vehicle on a sticker located on the driver's side doorjamb or in the owner's manual. Also, check to see if your vehicle is equipped with a tire pressure monitoring system (TPMS), which will

illuminate a dashboard light when the tire inflation, in one, multiple, or all tires reaches a certain pressure threshold. Fleet managers, in particular, may consider using telematics with a TPMS to assist their drivers with maintenance. Even if a vehicle has a TPMS, however, it is still good practice to manually check your vehicle's tire pressure in order to ensure all of your tires are properly inflated.

### **Low Rolling Resistance Tires**

Rolling resistance is the energy lost from drag and friction of a tire as it rolls over a surface. This phenomenon is complex, and nearly all operating conditions can affect how much energy is lost. For conventional and hybrid electric passenger vehicles, it is estimated that about 3%-11% of their fuel is used just to overcome tire rolling resistance, whereas all-electric passenger vehicles can use around 22%-25% of their fuel for this purpose. For heavy trucks, this fuel consumption can be around 15%-30%.

Installing low rolling resistance tires can improve vehicle fuel economy by about 3% for LDVs and more than 10% for HDVs. In LDVs, a 10% decrease in rolling resistance can increase fuel efficiency by 1%-2%. Investing in low rolling resistance tires makes economic sense, as the fuel savings from the use of these tires over the life of the vehicle can pay for the additional cost of the fuel-efficient tires. Most new passenger vehicles are equipped with low rolling resistance tires, but make sure you keep rolling resistance in mind when shopping for replacement tires.

### **Super-Single Tires**

Reducing vehicle drag can provide significant fuel economy improvements. One way HDVs can reduce drag is by replacing traditional dual tires with one super-single tire—also called a wide-base or single-wide. In Class-8 heavy-duty vehicles (see the April Question of the Month, [http://www.eereblogs.energy.gov/cleancities/post/2016/04/20/vehicle\\_classifications.aspx](http://www.eereblogs.energy.gov/cleancities/post/2016/04/20/vehicle_classifications.aspx), for a definition), this can save fuel by reducing vehicle weight and rolling resistance. A super-single tire is not as wide as two tires, so there is a slight aerodynamic benefit as well, further improving vehicle efficiency.

For more information, see the following pages:

Alternative Fuels Data Center:

- Low Rolling Resistance Tires ([http://www.afdc.energy.gov/consERVE/fuel\\_economy\\_tires\\_light.html](http://www.afdc.energy.gov/consERVE/fuel_economy_tires_light.html))
- Vehicle Maintenance to Conserve Fuel ([http://www.afdc.energy.gov/consERVE/vehicle\\_maintenance.html](http://www.afdc.energy.gov/consERVE/vehicle_maintenance.html))
- Vehicle Parts and Equipment to Conserve Fuel (<http://www.afdc.energy.gov/consERVE/equipment.html>)
- [FuelEconomy.gov](http://www.fueleconomy.gov): Keeping Your Vehicle in Shape (<http://www.fueleconomy.gov/feg/maintain.jsp>)
- Clean Cities Technical Response Service Team [technicalresponse@icfi.com](mailto:technicalresponse@icfi.com)

