



As part of its commitment to reduce carbon dioxide from entering the air, Chevrolet is supporting Metrolina Greenhouses in its effort to use renewable biomass to heat its large facility in North Carolina.

Chevrolet Aids in Preventing CO2 from Entering Air

DETROIT – Imagine heating a building covering 22 Manhattan city blocks or 120 football fields – and then you'll understand the current task faced by the Metrolina Greenhouses.

Helping Metrolina convert its heat source from natural gas to renewable biomass is part of Chevrolet's commitment to reduce carbon dioxide emissions.

Metrolina displaces fossil fuel by using waste wood from land clearing as an energy source in its Huntersville, N.C., operation.

Metrolina's greenhouse is the largest single-story structure in the United States.

Officials at Metrolina expect to use approximately 36,000 tons of waste wood each year.

"As a large-scale operation delivering approximately 70 million plants a year, we're committed to activities like this that help us become a greener greenhouse," said Abe VanWingerden, co-CEO of Metrolina Greenhouses.

"When our biomass boilers are burning these wood chips, you can't even tell they're running."

Metrolina Greenhouses is one of 16 new projects Chevrolet recently announced

it is supporting to prevent up to 8 million metric tons of carbon dioxide from entering the air during the next five years.

The total carbon-reduction goal for all these projects is estimated to equal the 2011 emissions created from driving the 1.9 million vehicles Chevrolet expected to sell in the United States between Nov. 18, 2010, and Dec. 31, 2011.

Chevrolet is developing fuel-efficient vehicles like the Volt electric vehicle with gas-powered extended range capability, the Cruze Eco that gets an EPA-estimated 42 mpg on the highway, and the recently announced future electric Spark minicar (EPA estimates not yet available) while working to reduce the environmental impact of the General Motors' facilities that make them.

The Volt has an EPA estimated 94 MPGe when running on electricity and 35 mpg city or 40 mpg highway when using its gas generator.

Chris Perry, vice president of Chevrolet Global Marketing and Strategy, said the brand created its carbon-reduction initiative to extend these efforts.

"We believe it's the right thing to do for the environ-



Instead of relying on natural gas, Metrolina Greenhouses uses waste wood from forest management and land clearing as an energy source in its 6.1M square-foot Huntersville, N.C., operation.

ment and our business," said Perry. "After all, cars like the Chevy Volt will depend on cleaner energy systems across our communities to achieve their full carbon-reduction potential."

Consumers also can contribute to Chevrolet's carbon-reduction initiative by planting a virtual tree on their Facebook walls. For each tree planted up to 175,000, Chevrolet, in partnership with

the National Forest Foundation, will plant a real tree in a U.S. forest next year.

Chevrolet is buying carbon reductions to help provide funding for Metrolina Greenhouses and the 16 other projects.

Actual carbon reductions will take place over the next five years.

They must be reviewed, validated and verified before the investments are completed.

Chevy Says '13 Malibu Eco Exhibits 'New Athleticism'

DETROIT – The all-new 2013 Chevrolet Malibu Eco adds a dose of flavor – and efficiency – to the midsize sedan segment.

With a GM-estimated 37 mpg on the highway, the Malibu Eco is the first model of the all-new 2013 Malibu lineup to reach dealer showrooms in North America, starting in the first quarter of 2012.

It has an MSRP of \$25,995, including a \$760 destination charge. The new Malibu is Chevrolet's first global midsize sedan and will be sold in nearly 100 countries on six continents.

"The Malibu Eco is a smart choice for customers who want a great-looking car inside and out with excellent fuel economy, but without the higher price of some hybrid sedans," said Russ Clark, di-

rector of Chevrolet marketing. "In short, it's an incredible value."

The exterior of the Eco – and all Malibu models – has a coupe-like silhouette and carries design DNA from Camaro to bring a sporty look to the family sedan segment.

A wide stance, broad shoulders, a powerdome hood and an integrated rear spoiler bring a new athleticism to Malibu and give it a more aggressive, planted and sporty appearance, say Chevy execs.

The new Malibu has a 4.5-inch shorter wheelbase and 62-inch front and rear tracks that are more than two inches wider than the model it replaces.

Malibu Eco exterior design cues also include Chevrolet's dual-port grille, large swept-back projector HID head-

lamps with three-dimensional execution, larger Chevrolet bowtie badges front and rear, taillamps inspired by the Camaro, and a single hidden exhaust outlet.

The look is complemented by standard 17-inch alloy wheels and low-rolling-resistance Goodyear tires.

An aerodynamically optimized design and smart use of fuel-saving technologies helps the Malibu Eco be Chevy's most fuel-efficient midsize ever, as engineers removed about 60 counts of wind drag from the 2013 Malibu's design, compared with its predecessor.

Malibu Eco is among the first vehicles in the midsize segment with a standard fuel-saving, active shutter system.

Located in the lower grille, the Malibu Eco's active shut-

ter system automatically closes airflow through the lower intake opening when air intake is least needed.

When closed, the shutter system enhances aero performance by redirecting airflow around the front of the vehicle and down the sides, rather than through it.

The shutter is open or closed based on engine coolant temperature and speed. For example, the shutters open when the car is traveling up a hill, pulling a trailer, or in hot city driving; the shutters close at highway speeds when less engine cooling is required.

Other aerodynamic features on the Malibu Eco include a dual-port grille upper that is closed to redirect air flow up and over the hood surface.

Hillebrand Nominated For 2013 SAE President

WARRENDALE, Pa. – SAE International's Executive Nominating Committee (ENC) named Donald G. Hillebrand as its candidate for 2013 SAE International president.

Hillebrand is director of the Center for Transportation Research at Argonne National Laboratory.

SAE 2011 President Richard E. Kleine made the announcement during the 2011 SAE International AeroTech Congress Banquet, which was held in Toulouse, France. This was the first time such an announcement was made at an SAE International event held outside of the United States.

In his position with Argonne National Laboratory, Hillebrand leads transportation research activities, including vehicle systems and hybrid vehicle development; engine and emissions research, materials research, tribology, and life cycle analysis.

Prior to joining Argonne, Hillebrand worked for Daimler Forschung and Technologie in Stuttgart, Germany. While there, he was responsible for Daimler's research and technology liaison with the European Commission in Brussels, and interacting with European research organizations and business groups.

Hillebrand also worked in the White House Office of Science and Technology Policy, Technology Division (1996-98), where he served as senior policy advisor.

Hillebrand has earned several awards and distinctions throughout his career, including SAE International Distinguished Younger Member, 2000, and SAE International Outstanding Young Engineer, 1999.

In July 2011, Hillebrand was named by *Automotive News* as one of the 100 most influential people bringing about the electrification of the automobile.

A member of SAE International since the age of 18, Hillebrand served on the SAE International Board of Directors from 2001 to 2003. In addition, he served as the general chairman of the 1999 SAE International Government/Industry Meeting.

He earned a bachelor's degree in Mechanical Engineering, a master's degree in Mechanical Engineering, and a PhD in Mechanical Systems Engineering from Oakland University.

Hillebrand's nomination will go to a member vote in November 2012. If elected, he will begin his one-year term in January 2013.

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