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Ford's Auto Start-Stop System Saves Fuel, Emissions

lar fuel-saving technology that can International Auto Show. automatically shuts off the engine when the vehicle comes to a stop – a feature found today on the Ford Fusion Hybrid and Ford Escape Hybrid and some Ford cars in Europe - will soon be added to conventional cars, crossovers and SUVs in North America.

Ford's patented new Auto Start-Stop system for gasoline engines will improve fuel economy for most drivers by at least 4 percent. The gain can be as high as 10 percent for some drivers, depending on vehicle size and usage.

It can also reduce tailpipe emissions to zero while the vehicle is stationary or waiting at a stoplight.

Ford has more than 244

DEARBORN - Ford's popu- January at the North Ameri-

Auto Start-Stop is the latest example of Ford moving aggressively to bring affordable advanced fuel-saving technologies to all customers.

Ford has already introduced electric power steering, dual-clutch PowerShift six-speed transmissions and other fuel-saving features as part of the company's commitment to lead or be among the leaders in fuel economy in every segment.

Ford's global Auto Start-Stop technology is smooth, quiet and seamless, and it requires no changes to the driver's behavior. In city driving when the vehicle is stopped, the engine restarts the instant the driver's foot leaves the patents for its Auto Start-Stop brake pedal. When the engine technology and will showcase is off, all of the vehicle's acthe feature on a concept in cessories function normally.

"For the driver, Ford Auto Start-Stop provides extra fuel efficiency without inconvenience, as it works completely automatically," said Barb Samardzich, Ford vice president of Powertrain Engineering. "And, just like in our hybrid vehicles, the heater and air conditioner work as normal so drivers will not sacrifice comfort."

The global rollout of Auto Start-Stop is under way in Europe. The system, designed to work on both gasoline and diesel engines, is standard on the ECOnetic models of the Ford Ka and Mondeo, and is launching now on Focus, C-MAX and Grand C-MAX. The fuel-saving system debuts in North America in 2012 and eventually will be offered in all of Ford's global markets.

Many North American Ford customers are already famil-

iar with Auto Start-Stop. A similar system has been installed on more than 170,000 gasoline-electric hybrid vehicles Ford has sold since 2004.

Ford is the leading domestic producer of start-stop systems. In 2011, the version of Ford's Auto Start-Stop designed for gasoline-electric powertrains will be on the Escape Hybrid and Fusion Hybrid, as well as the Lincoln MKZ Hybrid.

"Many of the same Ford engineers who designed the Auto Start-Stop system used on Ford and Lincoln hybrids are developing the Auto Start-Stop system for non-hybrid vehicles that will be sold globe," around the Samardzich.

When Auto Start-Stop debuts in North America, it will be available on gasoline-powered cars and utilities with ei-

Ford's Auto Stop-Start technology, first developed on the Ford Escape Hybrid and other alternative vehicles, will now be deployed across other vehicles in the automaker's mainstream fleet.

ther a manual or automatic seamlessly, Samardzich said. transmission, as well as vehimatic transmission.

gines is one of the technolo- starts, Samardzich explained. gies that enable the Auto Start-Stop system to work

The direct-injection system, cles that use Ford's patented which sprays the exact dual-clutch six-speed auto- amount of fuel directly into the precise location in the Ford's aggressive move to combustion chamber, helps direct-injection EcoBoost en- enable extremely fast engine

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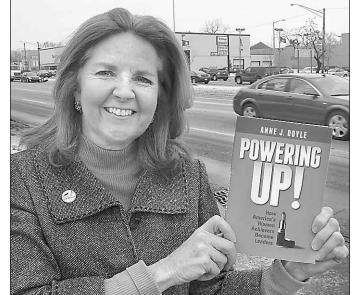


PHOTO: GERALD SCOTT

Former Ford executive Anne Doyle has published a new book about empowering women's leadership in the workplace.

'Powering Up!' with Former Ford Exec Anne Doyle climbing the proverbial corpoby Gerald Scott self at Ford communications, "However, despite our aca-

Editor U.S. Auto Scene

"Getting women engaged at the leadership level and throughout the auto industry and our whole society is not about 'diversity' to me - it's about the full engagement of the human race."

So declares former Ford executive Anne Doyle, who has written a new book about further empowering women's leadership in the workplace and will be published soon.

The book is entitled, "Powering Up! How America's Women Achievers Become Be-

Doyle is a well-known metro Detroit presence by now - she was among the first female TV sportscasters in the nation to report from men's locker rooms, she distinguished her-

she continues to be a business consultant at Anne Doyle Strategies and in her spare time these days she's also a city councilwoman in Auburn Hills.

Somehow, she found the time to do cutting edge research and interview over 150 business women to write this new book. She differentiates between success and leadership – a given businesswoman may be perceived as a success, but she may not have gotten instruction in the particulars and nuances of leadership along

demic excellence, professional accomplishments and world savvy, American women are still leadership underachievers," a book blurb declares.

"Powering Up!' is an inspiriing field guide that offers aspiring women practical steps, focus and courage required to lead.'

Doyle worked at Ford Motor Co. from 1987 to 2000 and her time there gave her real-world immersion in the challenges that women still face when

rate ladder.

"(I worked) primarily in public affairs and then I spent three years on the Governmental Affairs side - handling Washington and grass-roots political, creating that grass-roots political machine," Doyle said.

"So my last position was director of North America Communications for U.S., Mexico and Canada, for Ford, Lincoln-Mercury and all that.

"But over the years, I've also

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After Toughest Tests, Ford's EcoBoost Truck Engine Ready for Its Physical

DEARBORN - Ford power- nearly 10 years of use - a regi- F-150 at Kansas City Assembly train engineers will tear down men tougher than any con- Plant. Then, it hit the road an engine that has gone a distance equal to six times around the earth and threequarters of the way to the moon. Or put another way: the engine has the equivalent of 160,000 miles and 10 years of rugged use.

Now, Ford engineers want to see how the engine's parts and components held up. They will disassemble and examine it for long-term durability in front of the public at the North American International Auto Show in Detroit at 11 a.m. on Jan. 15, 2011.

"Customers will be able to see for themselves how the components fared during a regime of tests that, when taken together, are far more extreme than even the harshestuse customer could dish out,' said Jim Mazuchowski, V6 engines programs manager. "This EcoBoost truck engine received no special treatment, and now we're going to see how it did."

The F-150 EcoBoost engine saw its first action on the ished it in temperature and load extremes simulating

sumer could ever subject a and saw some of the most setruck to. At this point, most vere use Ford engineers have engines would be ready to be rebuilt or retired, but the Eco-Boost testing engine was just ber beginning.

The engine was dropped into a regular production 2011 ever dreamed up:

• It hauled 55 tons of lum-

• It ran at full throttle for 24

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Ford engineers will disassemble and examine the 3.5-liter Ecodyno in July. Engineers pun- Boost "hero" truck engine for long-term durability in front of the public at the North American International Auto Show in Detroit on Jan. 15.

New University of Michigan Study Says State to Add Manufacturing Jobs

By KATHY BARKS HOFFMAN **Associated Press**

2011, vet there's little reason to toast the new year just yet.

University of Michigan economist George Fulton expects the state to add about 6,300 net jobs next year and 48,000 in 2012, giving the state an average 12.4 percent unemployment rate in 2011 and 11.5 percent in 2012, down from an average rate of more than 13 percent this past year.

The state still has a long way to go to replace the nearly 860,000 jobs it has lost since the economy began sliding in June 2000. Even a welcome 2-percentage-point drop in the unemployment rate

with a rate of 12.4 percent, bepopulation over the past decade, according to new census numbers.

23-year-old For Wamhoff, who graduated in spring 2009 with an aeronautical engineering degree from Western Michigan University, the state's economic woes have temporarily halted his dream to work on a team designing cars or airplanes. He spent a year bouncing between work on his grandfather's farm and a part-time retail job, living with his parents in the Lansing suburbs while applying for engineering jobs around the country.

Getting no offers, he settled

over the past year leaves it in May for a six-month stint at Whirlpool Inc. as a lab technihind only Nevada and tied for cian modifying washers for LANSING, Mich. (AP) - For second place with California. product development tests in the first time in 11 years, Michigan now ranks 37th in Benton Harbor. He started a Michigan is expected to add per-capita personal income new job last month with Xomore jobs than it loses in and was the only state to lose ran Technologies in Ann Arbor as an electro-mechanical technician, running tests and packing for shipment the CT scanners the small manufacturer builds.

> 'Graduating in Michigan with the current state economy has been another set of lessons in and of itself," said Wamhoff, who's making less than he had hoped to earn as an engineer. Now living with wife in Ann Arbor, Wamhoff's glad he has been able to stay in Michigan and hopes engineering jobs become more plentiful as the economy improves.

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UAW Local 900 Gives 'Adopted' Kids A Merry Christmas with Food and Gifts

by Stefanie Carano Staff Reporter Detroit Auto Scene

Thanks to the generosity of of UAW Local 900, disadvantaged children across Southeast Michigan had a Christmas this year.

The organization's 2010 Christmas Angels program invited 50 families representing 145 children from all over metro Detroit to the Local 900 hall on Dec. 18 for an afternoon of pizza, cookies, a visit with Santa Claus and a gift

"Our members adopted these kids," said Ebony Kennedy, Local 900 co-chair and community service committee chair.

"The kids get to meet their angels, take pictures with them, eat lunch with them,

he said.

bers chose a child - ranging games and MP3 players, dein age from 0 to 16-year-olds to adopt.

After their selection was made, the union members were required to either purchase gifts for the child based on a wish list provided or donate money to the community service committee to pur-

chase gifts for them. Names and information on the children came from area charity organizations.

"Some come in from the Salvation Army, some come in by referrals from social workers," Kennedy said.

'We also take in some veterans, a few families where the fathers got killed in Iraq and Afghanistan.'

Kennedy said they worked with the Wayne and Westland Goodfellows for referrals as

Participating union mem- clothing to toys to video tions in Wayne.

pending on the age and interest of the child.

Kennedy said books were a popular item, especially among the older children on

the list "We had a big request for books," Kennedy said.

The Christmas Angels program is just one of a number of charity projects conducted by Local 900 each year.

After a fire at an apartment complex in Westland left 39 families without a home, Local 900 made a generous donation to help provide for the displaced residents.

Other projects this year included support of Forgotten Harvest, which distributes food to food banks and emergency food providers across Southeast Michigan.

UAW Local 900 represents Gift items ranged from Ford workers at plant loca-



The UAW Local 900's 2010 Christmas Angels Program provided gifts for 145 children throughout Southeast Michigan. The Union Local is housed in Wayne.