

## With New Plans, GM Investments Total \$2.8B in 2013

General Motors will invest nearly \$1.3 billion in five manufacturing sites in Michigan, Ohio and Indiana to produce new fuel-efficient engines and transmissions, enhance vehicle quality and streamline logistics, said company spokesman Bill Grotz.

The investments combined will create or retain about 1,000 jobs.

The investments – announced Dec. 16 at GM plants in Detroit, Flint and Romulus; Toledo, Ohio and Bedford, Ind. – will support production of a new V6 engine, new 10-speed transmission and an existing 6-speed transmission.

The Dec. 16 investments will also fund assembly plant upgrades, including a new paint shop and logistics optimization center.

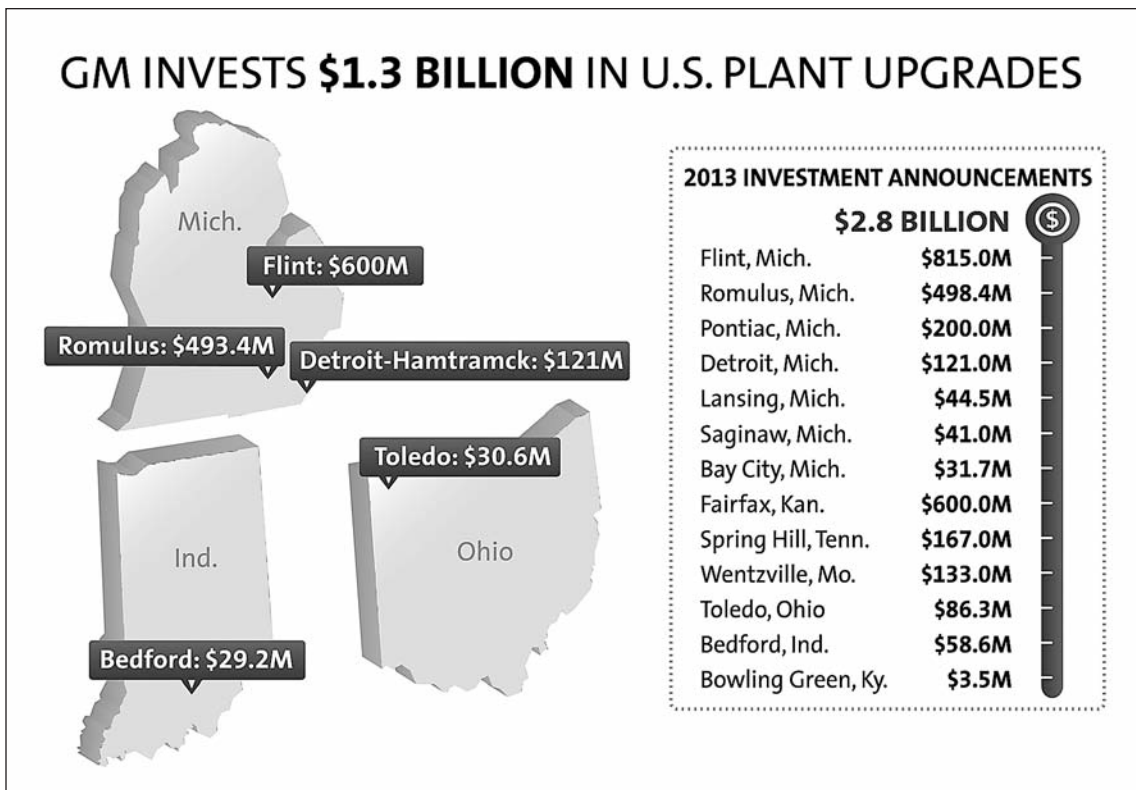
Since 2009, GM has announced investments of about \$10.1 billion in its U.S. operations – \$2.8 billion in 2013 alone – creating or retaining more than 26,500 jobs, Grotz said.

“GM is committed to a strong American manufacturing base and creating jobs in dozens of communities throughout the country,” said GM executive vice president and North America President Mark Reuss.

“These announced plant upgrades continue the momentum of a resurgent auto industry. More importantly, these investments add up to higher quality and more fuel-efficient vehicles for our customers.”

“Today’s announcement is a win for American workers,” said UAW vice president Joe Ashton, who directs the union’s GM Department.

“The UAW is proud to be a part of this successful collaboration with GM that has helped rebuild



LEFT: State maps indicate amounts announced Dec. 16.

RIGHT: Table shows total of all 2013 investments.

the nation’s economy, created good-paying union jobs in communities across the country, and brought manufacturing that was moved overseas back to the U.S. This is further proof that collective bargaining works.”

GM’s nearly \$1.3 billion investment, Grotz said, includes:

- \$600 million in Flint Assembly for facility upgrades, including a new paint shop;
- \$493.4 million in Romulus Powertrain Operations, which includes \$343.4 million for equipment to produce an all-new, 10-speed, automatic transmission and \$150 million to increase capacity of a previously announced

new V6 engine;

- \$121 million in Detroit-Hamtramck Assembly for a logistics optimization center;

• \$30.6 million in Toledo Transmission Operations for increased capacity for an existing 6-speed transmission and tooling for a new variant;

- \$29.2 million in Bedford Castings, which includes \$22.6 million to produce components

for the 10-speed transmission and \$6.6 million to produce components for an existing 6-speed transmission.

The 10-speed automatic transmission will contribute to improved fuel economy and performance, Grotz said.

Details about this program and the new V6 engine will be announced at a later date, according to Grotz.

## GM Conducts 3-D Light Searches For Quality

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tours and records where the object is in space and its orientation, Pecar said.

While any one of these systems can scan small parts to complete vehicles, blue and white light works best at capturing complete vehicle scans, including full exterior surface, Pecar said.

Blue light scanners also can map vehicle interiors and locations of underhood and underbody components. White light scanning is a similar photographic process, but it’s older technology and used less frequently now with the advanced capability of blue light scanning.

Red light scanning is best for capturing details of components and parts already removed from vehicles. By combining data from red and blue light scans, engineers can capture stand-alone parts and their original position and orientation within the vehicle.

GM also uses 3-D scanning for vehicle design and development.

“By comparing the scan of a finished product to the original math model we can identify the source of fit-and-finish problems. In some cases, even squeaks and rattles can be avoided or quickly addressed,” Pecar said.

“There is no place for a quality issue to hide.”

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