

Jeep® Getting Greener; Wrangler's Environmental Impact Reduced by 15 Percent

Equipped with technology-rich 2.0-liter engine, each new-generation Jeep® Wrangler Unlimited has potential to account for 14-metric-ton reduction in GHG emissions

- FCA analyzed Global Warming Potential (GWP) of redesigned Jeep® Wrangler Unlimited, compared with previous model
- Each new Wrangler Unlimited has potential – over its lifetime – to account for emissions reduction equivalent to CO₂ produced by burning 7.7 tons of coal
- Potential GHG reduction equivalent to combined annual emissions produced by three passenger vehicles
- Production strategy for 2.0-liter turbocharged I-4 engine, key contributor to Wrangler Unlimited's GWP, revamped to accommodate anticipated need

May 11, 2020, Auburn Hills, Mich. - In its continuing efforts to monitor and reduce the environmental impact of its vehicles, FCA has completed its latest Global Warming Potential ([GWP](#)) analysis.

The redesigned-for-2018 Jeep® Wrangler Unlimited was compared with the previous-generation vehicle, its overall GWP is 15 percent lower than that of its predecessor.

"This is the outcome we expect when we launch a new vehicle," says Mitch Clauw, FCA Vice President and Head of Global Pre-Programs and Program Management. "In all our processes, the mitigation of environmental impact is a baked-in consideration."

The GWP improvement was calculated using industry-standard software that examines multiple factors associated with a vehicle's design, production and on-road performance. These factors include:

- the environmental impact of fuel production and delivery
- material use
- the vehicle's own fuel consumption

Determinations are based on 150,000 miles of operation. And improvements are measured by contrasting anticipated greenhouse-gas (GHG) emissions, with those of comparable vehicles.

In this case, the comparison was made with the previous-generation Wrangler Unlimited, as powered by its only available engine – FCA's award-winning 3.6-liter Pentastar V-6 – and a since-discontinued five-speed automatic transmission.

The new Wrangler's performance was measured as equipped with the available 270-horsepower, 2.0-liter turbocharged I-4 engine, featuring engine stop-start ([ESS](#)). Accordingly, each new Wrangler Unlimited has the potential to account for a 14-metric-ton reduction in GHG emissions, which is equivalent to:

- GHG emissions of three passenger cars, driven for one year
- CO₂e output from 7.7 tons of coal burned in a power-generation plant
- CO₂e produced when powering 2.4 average American homes for one year

Equally compelling is that the reduced emissions from each 2.0-liter Wrangler Unlimited, over its lifetime, has the potential to account for the carbon sequestration that occurs in 16.5 acres of U.S. forest, over an entire year.

Material choices also contribute to the new Wrangler Unlimited's greener performance. Its ferrous metal content was reduced to 54 percent from 68 percent in the previous-generation vehicle.

Meanwhile, non-ferrous metal content, which contributes to weight reduction and corrosion resistance, increased to 20 percent, from 12 percent.

Further improving its on-road performance, FCA's TorqueFlite eight-speed automatic transmission benefits fuel economy, whether mated to the 2.0-liter turbocharged I-4 or the 3.6-liter Pentastar V-6. In I-4 configurations, the celebrated transmission helps the 2020 Wrangler Unlimited achieve a 21 miles-per-gallon (mpg) rating in the U.S. Environmental Protection Agency's combined city/highway test cycle – an increase of three mpg over the previous-generation vehicle and its five-speed automatic transmission.

In the Sahara trim level, the 2020 Jeep Wrangler Unlimited may be equipped with a version of the 2.0-liter turbocharged I-4 that features FCA's [eTorque](#) mild-hybrid technology.

In addition, the new-generation Wrangler Unlimited is available with a 3.6-liter V-6 from FCA's award-winning Pentastar engine family. It comes with a choice of a TorqueFlite eight-speed transmission or a six-speed manual gearbox.

The 2.0-liter turbocharged I-4 is also available in the Jeep Cherokee midsize SUV. To accommodate its continued proliferation across the FCA lineup, the Company is [committing \\$400 million](#) to produce the engine at a former transmission plant in Kokomo, Indiana, a project that will bring FCA's total employment in the state to 8,300.

The results of this latest GWP analysis come on the heels of FCA's [2019 Sustainability Report](#). Distributed on April 16, it says the Company further reduced its environmental footprint around the world.

Among the highlights, FCA cut its water use by nearly 40 percent, compared with 2010. Over the same time period, the Company also shaved its carbon footprint by 27 percent, and slashed its waste generation by 64 percent.

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