New Ford Transit and Tourneo Custom Plug-In Hybrids Deliver Zero Emission Driving with No Range Anxiety

- Segment-first Transit Custom Plug-In Hybrid van delivers 56 km (35 miles) zero-emission NEDC driving range, and more than 500 km (310 miles) NEDC total range using 1.0 litre EcoBoost petrol engine range extender
- Advanced plug-in hybrid architecture features 13.6 kWh battery that can be charged with mains electricity for zero-emission driving – contributing to reduced local emissions
- Transit Custom Plug-In Hybrid delivers 1,130 kg net payload and unchanged 6.0 m$^3$ load volume, facilitated by careful packaging of compact battery pack beneath the floor
- Special features include Geofencing module to automatically switch vehicle to EV mode when entering low-emission zones; Epower Pack enables operation of high-power electrical equipment from battery
- New Tourneo Custom Plug-In Hybrid eight-seat people-mover delivers pure-electric driving capability, with relaxing, quiet and spacious rear compartment
- Transit Custom Plug-In Hybrid and Tourneo Custom Plug-In Hybrid available to order now; battery pack covered by a standard eight-year/160,000 km (100,000-mile) warranty

**COLOGNE, Germany, Sept. 23, 2019** – Ford is the first manufacturer to deliver plug-in hybrid technology for zero-emission driving capability to the 1-tonne van segment, with the innovative new Transit Custom Plug-In Hybrid.

Combining zero-emission driving capability and no range anxiety, the first-in-class Transit Custom Plug-In Hybrid van can be charged with mains electricity for a pure electric NEDC driving range of up to 56 km (35 miles) – contributing to reduced local emissions and allowing the vehicle to enter the growing number of ultra-low-emission vehicle zones being introduced across Europe.

Featuring a technologically advanced hybrid architecture, the Transit Custom Plug-In Hybrid’s front wheels are driven exclusively by a 92.9 kW electric motor powered by a 13.6 kWh lithium-ion battery pack. Ford’s multi-award-winning 1.0 litre EcoBoost petrol engine acts as a range extender for total driving range exceeding 500 kilometres (310 miles), 2.7 l/100 km fuel efficiency and 60 g/km CO$_2$ emissions NEDC.*

A generous net payload of 1,130 kg and unchanged load volume of 6.0 m$^3$ are facilitated by careful packaging of the compact battery pack beneath the floor. Giving confidence to businesses, the battery pack is covered by a standard eight-year/160,000 km (100,000-mile) warranty.**

“Our customers want electrified vehicles, but we understand that they may have concerns about infrastructure and range. Our connected Transit Custom Plug-In Hybrid delivers productivity with no compromises, offering the capability to drive on zero-emission electric power with the freedom to make longer journeys,” said Ian Porter, chief programme engineer, Transit Custom, Ford of Europe.

Available to order now with first deliveries before the end of the year, the new Transit Custom Plug-In Hybrid offers practical, high-productivity option for businesses that need to support clean-air targets in urban environments while retaining the driving range offered by a traditional combustion engine.

FordPass Connect on-board modem technology features as standard, enabling operators to maximise vehicle efficiency and utilisation. Introduced from spring 2020 and available for retro-fitment to earlier vehicles, a new Geofencing module will be able to automatically switch the vehicle to zero-emission driving EV Now mode when entering a low-emission zone. The technology will help ensure businesses comply with regulations and avoid charges or penalties.
Ford is also introducing a new **Tourneo Custom** Plug-In Hybrid eight-seat people-mover, utilising the same advanced powertrain technology. Offering superior levels of refinement in a spacious rear compartment with unique-in-segment conference seating, the Tourneo Custom Plug-In Hybrid makes an ideal executive shuttle for businesses aiming to meet clean-air targets in areas such as inner cities or airports.

**Zero emissions. Zero range anxiety**

A charging port located within the front bumper enables the new Transit Custom Plug-In Hybrid to be charged in 4.3 hours using a domestic 240-volt 10-amp power supply, or 2.7 hours using a commercial type-2 AC vehicle charger. Additional electrical energy is captured through regenerative charging when the vehicle decelerates or brakes.

Four selectable EV modes enable the driver to choose how and when to use the available battery charge:

- EV Auto is intended to provide the optimum blend of performance and efficiency. The vehicle’s control algorithms monitor battery energy levels and the current driving scenario – such as whether motorway or stop-start driving – to decide whether to activate the range extender
- EV Now prioritises usage of stored battery energy for emissions-free driving, deactivating the range extender until battery levels reach a minimum state of charge
- EV Later prioritises the range extender and leverages regenerative charging to most efficiently maintain the current level of battery charge, ready for later use
- EV Charge utilises the range extender to power the vehicle and to top up the battery for when further EV Now travel is needed

Drivers can also choose the degree of energy recovery and braking assistance afforded by the regenerative charging system by selecting either Drive or Low on the gear selector. Releasing the accelerator pedal in Low-mode increases programmed deceleration, automatically illuminating the brake lights when necessary to warn drivers behind. The greater deceleration supports greater use of a one-pedal driving approach, particularly in stop-and-start urban scenarios, increasing the amount of kinetic energy recovered and stored in the battery for optimised electric driving range.

Inside the cabin, a power/charge gauge replaces the standard rev counter. Optimised following feedback from participants in Ford’s year-long real-world Transit Plug-In Hybrid trial in London, U.K., the gauge clearly visualises real-time energy recuperation to help drivers maximise electric driving range.

A smaller gauge for battery state of charge replaces the engine coolant temperature indicator and trip computer functions are configured specifically for the hybrid powertrain. EV mode indicators, maintenance alerts and a warning when the vehicle is plugged into a charging point, appear on the instrument display cluster. A status graphic displaying distance-to-empty for both the battery and range extender is visible on all screen displays.

In combination with the standard FordPass Connect on-board modem, the FordPass mobile app enables drivers to remotely monitor their vehicle’s charge status. From spring 2020, Ford’s recently launched FordPass Pro app – specifically designed to support smaller firms and owner drivers to maximise their productivity – will allow customers to check on the battery state of charge for up to five vehicles.

Ford is also introducing a new smartphone and tablet application that will enable its plug-in hybrid vehicle owners and operators to easily locate, navigate to and pay for charging. In partnership with NewMotion, Ford offers access to the largest public charging network with extensive coverage across Europe. The new app will deliver simplified access and payment for Ford customers at more than 118,000 charging points in 30 countries. Customers will be able to seamlessly utilise charging points across many markets, initiating and paying for charging services from a single account for a simplified ownership experience.

Ford also recently announced it will partner with six leading energy suppliers across Europe to provide home charging wall box installation services and green energy tariffs for plug-in hybrid customers, including Centrica to offer services in
the U.K. and Ireland. Ford’s wall box solution will deliver up to 50 per cent more charging power than a typical domestic socket, to reduce at-home charging times by up to one-third for customers of Ford’s plug-in hybrid models.

**Equipped for business**

The Transit Custom Plug-In Hybrid will be offered in a single L1 H1 variant, with Van or Kombi bodystyles. The Van model is available in a choice of Base, Trend and high-specification Limited series. Cabin air-conditioning and a heated windscreen are standard on all vehicles, and available equipment includes Ford’s voice-activated SYNC 3 communications and entertainment system, featuring an 8-inch colour touchscreen that can be controlled with pinch and swipe gestures.

FordPass Connect on-board modem technology features as standard, enabling businesses to optimise productivity and vehicle utilisation through solutions such as the new Ford Telematics and Ford Data Services products launching later this year, and the new FordPass Pro app.

Available driver assistance technologies include Active Park Assist and Lane-Keeping Alert supported by standard electric power-assisted steering that is optimised for city driving and easy manoeuvring in busy commercial environments.

Two new features designed to provide important additional customer benefits for the Transit Custom Plug-In Hybrid will be introduced from spring 2020.

To help ensure Transit Custom Plug-In Hybrid uses pure-electric power in low-emission zones, the standard Geofencing module automatically switches the vehicle to EV Now mode when entering such a zone, or a user-specified geofenced area.

The module can be controlled via an app, and captures encrypted information about electric-only operation within geofenced zones that can be securely shared with local authorities to confirm compliance to low-emission zone regulations. By removing the risk of accidentally straying into a charge zone while using the range extender, the geofencing module could reduce operator stress and save businesses money from fines and penalties.

An optional 12-volt Epower Pack will enable operators to run high-power electrical equipment such as power tools or site lights from the vehicle’s high-voltage battery, using an easily accessible connection delivering up to 6 kW of power.

**Tourneo Custom Plug-In Hybrid**

Also available to order before the end of this year, the first-in-class Tourneo Custom Plug-In Hybrid people-mover shares the advanced hybrid drivetrain of the Transit Custom Plug-In Hybrid. Delivering 3.1 l/100 km fuel efficiency, 70 g/km CO₂ emissions and a pure electric driving range of up to 53km (33 miles) NEDC, the Tourneo Custom Plug-In Hybrid also is covered by Ford’s eight-year/160,000 km (100,000-mile) battery pack warranty.

Offered in upscale Titanium specification, the new eight-seater Tourneo Custom Plug-In Hybrid has been engineered to provide superior levels of comfort, with exceptional refinement for occupants particularly when running in electric-only driving mode. Spacious interior dimensions remain the same as for the 2.0#litre EcoBlue diesel variant, making the people-mover an ideal choice for executive travel in cities.

The Tourneo Custom Plug-In Hybrid also continues to offer the unique-to-segment ability to arrange the two rear rows of seats in conference format for outstanding access and enhanced interaction between passengers – or in two rows of three seats facing forward.

“Uniquely innovative and flexible, the new Tourneo Custom Plug-In Hybrid can give owners and operators the advantage of being able to drive in ultra-low-emissions zones,” Porter said. “Whether delivering executive shuttle services or
ferrying large families, the Tourneo Custom Plug-In Hybrid will offer a relaxing and refined environment for passengers, while also contributing to improved local air quality in busy urban environments.”

Tested by customers

The results of Ford’s year-long real-world trial of Transit Custom Plug-In Hybrid vehicles in London suggest that plug-in hybrid electric commercial vehicles could present the most practical, readily available option for businesses trying to meet clean-air targets in cities.

A fleet of 20 prototype Transit Custom Plug-In Hybrid vans covering more than 240,000 km (150,000 miles) sought to test whether businesses could carry out the typical daily duties of their diesel-powered vehicles, while maximising the use of zero-emissions electric-only driving mode.

During the trial, 75 per cent of the fleet’s mileage in Central London and 49 per cent in Greater London was completed using pure electric power. The results highlight that even without a fully established electric vehicle charging network, the hybrid vans were able to dramatically reduce tailpipe emissions in the inner city, using the flexibility of a petrol range extender to complete longer journeys when required.

Further trials in Cologne, Germany, and Valencia, Spain, will provide data from different markets, cities and customer types, and will involve a mix of Transit Custom Plug-In Hybrid vans and Tourneo Custom Plug-In Hybrid people-movers.

Ford earlier this year announced that a new all-electric Ford Transit van will join the Transit range – anticipated for volume launch in 2021. The company also announced that every new Ford passenger vehicle nameplate will include an electrified option – either a mild-hybrid, full-hybrid, plug-in hybrid or all-electric – delivering one of the most comprehensive line-ups of electrified options for European customers.

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*The declared fuel/energy consumptions, CO₂ emissions and electric range are measured according to the technical requirements and specifications of the European Regulations (EC) 715/2007 and (EC) 692/2008 as last amended. Fuel consumption and CO₂ emissions are specified for a vehicle variant and not for a single car. The applied standard test procedure enables comparison between different vehicle types and different manufacturers. In addition to the fuel-efficiency of a car, driving behaviour as well as other non-technical factors play a role in determining a car’s fuel/energy consumption, CO₂ emissions and electric range. CO₂ is the main greenhouse gas responsible for global warming.

Since 1 September 2017, certain new vehicles are being type-approved using the World Harmonised Light Vehicle Test Procedure (WLTP) according to (EU) 2017/1151 as last amended, which is a new, more realistic test procedure for measuring fuel consumption and CO₂ emissions. Since 1 September 2018 the WLTP has begun replacing the New European Drive Cycle (NEDC), which is the outgoing test procedure. During NEDC Phase-out, WLTP fuel consumption and CO₂ emissions are being correlated back to NEDC. There will be some variance to the previous fuel economy and emissions as some elements of the tests have altered i.e., the same car might have different fuel consumption and CO₂ emissions.

**Full details of limited warranty will be available from Ford dealerships**