



All-Electric Mustang Mach-E is First Ford to Enhance Accuracy of Driving Range Estimates Using Cloud-Connectivity

- Mustang Mach-E helps reduce unplanned stops for charging with innovative new Intelligent Range, which more accurately predicts how much range drivers have using past driving behaviour, weather forecasts and crowdsourced data from other Mustang Mach-E vehicles
- Future over-the-air update will enable even more accurate connected vehicle predictions – including the ability to factor in real-time traffic conditions, terrain and elevation of a given route and more – letting drivers know if they need to anticipate a charging stop
- In case a customer runs out of charge, the BEV Roadside Assistance programme will tow their all-electric vehicle to their home, the nearest public charger or an electric vehicle-certified Ford dealership

For electric vehicle owners, Ford understands that taking the guesswork out of when and where to re-charge helps build trust and provide peace of mind. That's why the all-new Mustang Mach-E comes equipped with a feature to help more accurately predict how much range drivers have left, becoming more precise over time.

Mustang Mach-E's Intelligent Range can accurately estimate how much range the all-electric SUV has left, helping reduce anxiety about when and where customers can re-charge.

"Electric vehicle customers need to be able to trust their range estimates," said Darren Palmer, Ford global director for battery electric vehicles. "People want to be confident they're going to make it where they need to go, whether they're on a road trip or coming home from work. Our new Intelligent Range feature helps ensure Mustang Mach-E owners around the globe know where they stand ahead of time, freeing them up to enjoy the ride."

Intelligent Range will calculate range based on past driver behaviour and forecasted weather conditions – taking advantage of the cloud to predict how much energy will be used in future driving. The vehicle battery system reports how much energy is available, while the powertrain module tracks how much energy is being used. Warmer or colder weather can impact range, so Intelligent Range takes that into consideration, too, updating estimated range along the way.

Crowdsourced data from other connected Ford electric vehicles who choose to share information on the road can improve estimates considerably. The all-electric SUV can track how much energy is used in different circumstances, including varying speed, terrain and climate conditions, so it can use fleet averages across all Mustang Mach-Es to improve range estimates – even for routes and conditions an individual customer has never driven before.

If range is impacted notably by any number of factors at the start of a trip, customers will receive a notification in their cluster highlighting the new range estimate and details about why the estimate has changed.

In case a Mustang Mach-E does run out of charge, the BEV Roadside Assistance programme will tow customers to their nearest charging point, which can be a FordPass Charging Network location, EV-certified Ford Dealership, customer residence or the nearest public charger.

Ford will upgrade Intelligent Range through over-the-air updates, designed to deliver even more accurate prediction capabilities for connected Mustang Mach-E, keeping their fully electric SUVs at the forefront of technology. A future

update will allow Mustang Mach-E to take even more advantage of cloud-connected capabilities, enabling it to factor in real-time traffic conditions, road slope, the terrain and elevation of a given route, and even the temperature at their final destination.

“Changes in driver behaviour and the environment can often impact range, which is the reason other electric vehicles often experience significant range adjustments,” said Mark Poll, electric vehicle charging user experience manager, Ford Motor Company. “Ford is tapping the power of the cloud to make estimates even more accurate – reducing the need for surprise charging stops and to help reduce customers’ anxiety.”

The all-electric Mustang Mach-E – with a targeted pure-electric driving range of up to 600 km (more than 370 miles) according to the World Harmonised Light Vehicle Test Procedure (WLTP) – spearheads a rapidly expanding Ford electrified vehicle range and is one of 18 new electrified vehicles the company is introducing to Europe before the end of 2021.

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Targeted range based on manufacturer tested values and calculation according to the WLTP drive cycle. Officially homologated energy efficiency figures will be published closer to on-sale date. Actual vehicle range varies with conditions such as external elements, driving behaviours, vehicle maintenance, and lithium-ion battery age and state of health.

The declared fuel/energy consumptions, CO₂-emissions and electric range are determined according to the technical requirements and specifications of the European Regulations (EC) 715/2007 and (EU) 2017/1151 as last amended. Light Duty Vehicle type-approved using the World Harmonised Light Vehicle Test Procedure (WLTP) will have fuel/energy consumption and CO₂-emission information for New European Drive Cycle (NEDC) and WLTP. WLTP will fully replace the NEDC latest by the end of the year 2020. The applied standard test procedures enable comparison between different vehicle types and different manufacturers. 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, so the same car might have different fuel consumption and CO₂ emissions.

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