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Electric Renaults galore arriving here now (or very soon)...

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New E-Tech plug in hybrid and hybrid models arrive this year.

RENAULT CONTINUES THEIR AUTOMOTIVE ELECTRIFICATION PATH...

...David Miles (Miles Better News Agency) tells all – and drives the



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new models

Overview



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While other manufacturers have used the Hybrid and plug-in hybrid (PHEV) paths to full electric mobility, Renault took a different route 10 years ago with their first all-electric model the Twizy. The Twizy was an oddball tandem two seater city car and on the electrification path followed the compact hatchback Renault Zoe – the best selling electric car in the EU. Renault say they are the EU's best selling EV manufacturer of cars and vans with over 300,000 customers to date during this decade of electrification.

Now, or in the near future before the end of this year, three more Renault electrified models will join the UK line-up. These new versions are labelled Renault E-Tech Hybrid models which made their international media debut under COVID-19 restrictions for the UK Press last week in Buckinghamshire rather than France. Instead of us media types going to France to drive the new models, the left hand drive cars came to us in, at the time, stormy UK.



The three models are the Captur E-Tech PHEV compact SUV, the C-segment Renault Megane Estate E-Tech PHEV and the supermini sized Clio E-Tech Hybrid.

All models are powered by a new normally aspirated 1.6 litre, four cylinder petrol engine with two power outputs - 140 hp for the Clio Hybrid and 160 hp for the Captur and Megane PHEVs plug-in hybrids. Renault said this non-turbo engine has been specifically developed for E-Tech use.



Whether it's plug-in or pure hybrid the E-Tech drivetrain includes two electric motors positioned within the automatic transmission. One motor is a starter/generator, the other an E-Motor which provides the propulsion power to assist the petrol engine. Both systems use regenerative braking energy capture which can be further increased by selecting the B-mode on the drive selector lever during braking, deceleration or downhill driving. The Clio



Hybrid has a 1.2 kWh battery and the PHEV models use a 9.8 kWh battery and in both instances these are mounted under the rear seats so as to not reduce the boot space. The E-Tech transmission/powertrain was developed using knowledge gained from Renault's World F1 Team and the technology includes the use of a clutchless automatic gearbox for fast and smooth gearchanges.

The E-Tech models use Renaults new modular CMF-B (Clio) and CMF-C/D

(Captur/Megane) platforms and the architecture/platform were designed for electrification from the start as well as accommodating petrol and diesel models.

A free home charging wallbox is available for UK customers purchasing either a new Captur or new Megane E-Tech PHEV model. The PHEV models come with two charging cables as standard, one for domestic 13 amp charging, the other for wallbox and other charging points. Charging to full capacity takes between 3-4 hours depending on the power supply used and no rapid charging is needed due to those relatively short times.

The Captur E-Tech PHEV model has 30 miles of electric driving range with CO2 of 34 g/km, plus fuel economy of WLTP 188.3 mpg so VED is £0 and BiK company car tax just 10%. The Megane Sports Tourer PHEV has an official WLTP fuel economy figure of 217.2 mpg, 30 g/km of CO2, a 30 mile electric power only driving range with VED at £0 and BiK at 10%. The Clio Hybrid has a WLTP 64.2 mpg figure, 98 g/km of CO2 so VED is £125 First Year rate with 22% BiK tax.

All E-Tech models have a TFT Driver Information Display, Easy Link Navigation system and unique E-Tech badging. The Clio E-Tech Hybrid and Captur E-Tech PHEV models, in addition to other spec levels, also offer two unique Launch Edition specification levels with enhanced interior and exterior blue and copper colour packs. All versions of the latest model year Megane Sports Tourer range, like its Hatchback counterpart, have updated interior and exterior specification such as full LED lights, redesigned front and rear bumpers, new interior materials and a new R.S. Line trim level. However the Megane Hatchback doesn't



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become available in the UK as a PHEV model until April next year.

All Renault models come with a five year warranty with unlimited mileage limit in the first two years, while those with E-Tech powertrains come with an eight year battery warranty.

The all-new Clio E-Tech Hybrid is priced from £19,595 on the road in Play specification and first UK deliveries commence in October. The Captur E-Tech PHEV is priced from £30,495 in S Edition specification and customer deliveries also start in October. The Megane E-Tech Sports Tourer PHEV estate costs from £30,685 on the road in Iconic specification and first UK deliveries begin in November.

Renault e-Tech models first UK brief test drives

Renault Megane E-Tech Sports Tourer PHEV



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My first test drive of Renault's E-Tech PHEV hybrid system was in the Megane Sports Tourer estate with the new R.S Line spec level priced at £32,085, although there is a cheaper Iconic spec version for £2k less. Now the Megane doesn't have a very large sales acceptance in the UK in its C-segment which has been hard-hit for most manufacturers by the demand for SUVs. The Megane only sells around 2,000 units a year in the UK and 80% of those are Hatchbacks so I'm not in the best selling Megane E-Tech version.

However the Megane PHEV estate might change all that because of its appeal in the company car and fleet business markets and 90% of Megane sales already go to these



customers. The 447 litre (15.79 cu.ft) boot with the rear seats in place will be appreciated as well by company car and family users. With a 217 mpg potential, a 30 mile electric only driving range with CO2 emissions of 30 g/km company car tax is the just 10% and VED zero cost. The PHEV Meganes should become the mainstay of this range which was first introduced in 2004 with close to 24,000 UK sales to date. The more popular Hatchback version will join the new model line-up in April so that should bring a further boost to the sales potential.



In its latest updated spec and equipment form the Megane looks a competitive buy, it's comfortable, well equipped, handles sharply and I'd say it's definitely under appreciated. I cannot remember the last time I drove a Megane of any description.



However the new E-Tech models brings a new opportunity to sample Megane and the new 1.6 litre four cylinder, 160 hp petrol engine with twin electric motors cleverly positioned within the auto quick shifting gearbox thanks to F1 knowhow, is as good as any of these systems on the market today. The top speed is 111 mph and the zero to 62 mph acceleration time is 9.8 seconds. Because the electric driving motor assists the petrol engine providing 205 Nm (151 lb.ft) of torque from its first revolution, instant acceleration is quick and it felt strong through the initial stage before the engine silently came on-song.



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Officially the WLTP fuel economy figure says 217.2 mpg but we know these like all other PHEVs are far from reality and for my 40 mile test drive around the Storm Francis ravaged country roads and traffic heavy main roads of Buckinghamshire, the test car returned 88.28 mpg which is better than turbodiesel territory.

Renault Captur E-Tech PHEV compact SUV



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The Captur compact SUV range is Renault's best selling model in the UK with annual sales of around 20,000 units a year. It is also the best selling compact SUV in Europe. The Captur was first launched in 2013 and global sales to date are more than 1.5 million.

Renault UK say the Captur PHEV, priced from £30,495 for the S Edition and £30,995 for the Launch Edition, are the most affordable small PHEVs on the market with the MINI Countryman PHEV and Kia Niro PHEV being its main competitors. They expect PHEV models to account for around 10% of total Captur UK sales. Around 65% of Captur sales already go to business/fleet customers.



The Captur PHEV uses the same hybrid 1.6 litre 160 hp petrol engine and two electric motors positioned within the auto transmission as the Megane Sports Tourer PHEV. There is the same 205 Nm (151 lb.ft) torque output as well. It also has a 30 mile all-electric power driving range, CO2 emissions of 34 g/km and an official WLTP Combined Cycle 188.3 mpg. The BiK company car tax is 10% and VED road tax is £0.

On the same test route as I used for the Megane PHEV the Captur PHEV returned 100.9 mpg which was better by some way than the Megane PHEV although the official WLTP figures show the Megane to be more fuel-efficient. The heavy traffic conditions were the same as was the very poor weather.

The vehicle also has the MultiSense driving modes where the Pure mode is zero-emission all-electric driving, MySense is the optimised hybrid driving mode and Sport is the most responsive with full power from the engine and electric motor. The top speed is 107 mph with zero to 62 mph taking 10.1 seconds.

Other than having a more elevated driving position in the Captur over the Megane estate there was little different in its driving performance but perhaps more body roll during cornering due to its higher ground clearance, and it had a firmer ride.



Like other models in the new Captur range the PHEV versions have a 'Smart Cockpit' which features a 9.3-inch portrait touchscreen infotainment system display, a 10-inch TFT driver information display, Easy-Link connected multimedia services and wireless smartphone charging.



For the Launch Edition version I tried the spec includes Adaptive Cruise Control with Stop & Go, Traffic and Motorway Alert, Blind Spot, Traffic Sign Recognition, Lane Departure Warning, Lane Keep Assist, LED Headlights, Parking 360 degree Camera and front and rear parking sensors.

It's easy to see why the Captur overall is such a popular compact SUV, it's a well designed package inside and out and the introduction of electrified PHEV versions will add to its popularity.



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Renault Clio Hybrid



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The new Renault Clio is the fifth generation spanning 30 years and in the UK it is the brand's second highest selling model range after the Captur with close to 20,000 units a year. Around 60% of these sales, as you might expect for a five door supermini sized hatchback, go to retail customers. More than 650,000 of them have been sold in the UK in 30 years. It is currently Europe's best selling B-segment supermini sized model range with petrol and diesel engines.

The new additions to the Clio range are E-Tech Hybrid 140 Auto versions and will become



available with Play, Iconic, S Edition, R.S. Line and Launch Edition spec levels. Prices range from £19,595 up to £22,095.

Unlike the Megane and Captur PHEV plug-in hybrid models the Clio Hybrid is what we know as a self-charging hybrid, relying on regenerative energy capture via braking and during engine overrun periods to charge the battery.

This version of the new 1.6 litre petrol engine produces 140 hp, again it uses the automatic transmission incorporating the same two electric motors and it has a compact 1.2 kWh lithium-ion battery.

This hybrid unit returns an official WLTP rated 64.2 mpg and on my test drive route of main and winding country roads the figure was 62 mpg. The CO2 figure is 98 g/km so First Year VED costs £125 and company car BiK tax is 22%. The top speed is 122 mph with zero to 62 mph taking 9.9 seconds.

Renault says the Clio Hybrid has the ability to complete 80% of urban journeys in 100% electric power only driving mode. This will save they say 40% in fuel costs and even in electric mode it can still travel at speeds up to 27 mph.

It has MySense hybrid, Eco and Sport selectable driving modes. The petrol non-turbo engine plus electric motor's joint performance with 140 hp is still a punchy responsive unit in this five door supermini sized hatchback with its 300 litre (10.59 cu.ft) boot. Matched with the slick and fast changing auto gearbox it's a neat handling and nimble car, ideal for commuting travel where hybrids and plug-in hybrids work at their best. On long motorway trips they do not cope as well for fuel economy when battery power ebbs away. Ride comfort was generally good.



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Customers will not be short-changed with the new Clio Hybrid with its Smart Cockpit, 9.3-inch vertical multimedia touchscreen, 10-inch TFT instrument screen and Easy-Link connected multimedia services + My Renault App. There are the usual safety and navigation features as well.

Even my Clio Hybrid Launch Edition top of the range test drive model looked a good value proposition at £22,095. It is certainly a viable option for some users to other new generation petrol and diesel models which cost from around £15k to just over £21k.



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