



2022

# Renault Megane E-Tech

EV60, 160 kW electric FWD automatic



10.0   
/10

Clean Air  
Index

9.4   
/10

Energy Efficiency  
Index

9.6   
/10

Greenhouse Gas  
Index

10.0  
/10



## Clean Air Tests



### Laboratory Test

	NMHC	NO <sub>x</sub>	NH <sub>3</sub>	CO	PN
10.0/10 Cold Test	●	●	●	●	●
10.0/10 Warm Test	●	●	●	●	●
10.0/10 Highway	●	●	●	●	●
10.0/10 Cold Ambient Test	●	●	●	●	●



### Road Test

10.0/10 On-Road Drive	●	●	●	●	●
5.0/5 On-Road Short Trip	●	●	●	●	●
8.0/8 On-Road Heavy Load	●	●	●	●	●
5.0/5 On-Road Light Load	●	●	●	●	●
2.0/2 Congestion	●	●	●	●	●



n.a.



good



adequate



marginal



weak



poor

### Comments





Renault's new model – the Megane E-Tech 100% electric – is propelled only by electric energy. Accordingly, the vehicle scores the maximum index of 10 in this part of the assessment as it doesn't emit any polluting exhaust gases.

# Energy Efficiency Tests



## Laboratory Test

### Energy

10.0/10	Cold Test		→	16.9 kWh/100 km
10.0/10	Warm Test		→	16.3 kWh/100 km
9.1/10	Highway		→	26.3 kWh/100 km
8.6/10	Cold Ambient Test		→	30.0 kWh/100 km

### Consumption

### Driving Range

Average	19.8 kWh/100 km	359 km
Worst-case	30.0 kWh/100 km	226 km



n.a.



good



adequate



marginal



weak



poor

## Comments

Despite its mass and expansive frontal area compared to other top-rated vehicles, the Megane shows very high energy efficiency in the standard Cold and Warm laboratory tests, as well as good results in the critical Highway Test. At -7°C, however, consumption increases by 78% and the driving range is reduced to 226 km. The On-Road Drive was performed at about 14°C and the measured consumption is 19 kWh/100 km, meaning that a range of 357 km can be expected. The measured charging/discharging efficiency from the charging socket to battery output is 88%.

# 9.6

/10

## Greenhouse Gases Tests



### Greenhouse gases

CO<sub>2</sub>

N<sub>2</sub>O

CH<sub>4</sub>

10.0/10 Cold Test



10.0/10 Warm Test



9.6/10 Highway



9.0/10 Cold Ambient Test



n.a.



good



adequate



marginal



weak



poor

### Comments

Since the Megane is a battery electric vehicle, its Greenhouse Gas emissions (GHG) originate only from the upstream processes of electricity supply - ca. 46-85 g CO<sub>2</sub>-eq./km. Thanks to its generally low consumption and the relatively low CO<sub>2</sub> emissions of EU electricity production, the car scores a very high 9.6/10 in this index.

## Our Verdict

Tested here is the Renault Megane E-Tech 100% EV60 with a declared battery capacity of 60 kWh, single motor and front wheel drive. With a power of 160 kW and a spacious interior it is sure to have broad appeal. The car demonstrates very low energy consumption figures. The values in the standard Cold and Warm WLTC+ tests are impressive, but they rise in the Highway Test with its dynamic high power demand phases. Under cold winter conditions (WLTC+ test at -7°C), the consumption is increased by 78% and this limits the driving range significantly due to the demand for cabin heating. While conventional vehicles can utilise the combustion engine's waste heat for comfort, electric cars need to use the valuable electricity stored in their batteries. For this reason, special focus needs to be placed on cabin heating efficiency. The results of the performed short urban trip are noteworthy – the Megane used just 11.8 kWh/100 km.

When charging with 11 kW AC, Green NCAP measured exactly the same usable battery capacity as the declared value – 60 kWh.

The absence of polluting exhaust gas emissions, the high energy efficiency and the relatively low greenhouse gas emissions of European average electricity production make the Megane E-Tech 100% reach an impressive Weighted Overall Index of 9.6 out of 10 and a well-deserved 5 Green stars.

## Disclaimer

## Specifications

Publication Date 11 2022	Tested Car VF1RCB0036814xxxx	Tyres 215/45 R20	Emissions Class Euro 6 AX
Mass 1,684 kg	Engine Size n.a.	System Power/Torque 160 kW/300 Nm	Declared CO <sub>2</sub> n.a.
Declared Battery Capacity 60.0 kWh	Declared Driving Range Overall 433 km City 535 km	Declared Consumption 16.9 kWh/100 km	



Think before you print