

# Kia EV6

239 KW ELECTRIC AWD AUTOMATIC



10.0   
/10

**Clean Air  
Index**

9.0   
/10

**Energy Efficiency  
Index**

9.3   
/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

The Kia EV6 is a pure electric vehicle and no exhaust gases are emitted. Accordingly, the car scores the maximum index of 10 in this part of the assessment.

# Energy Efficiency Tests



## Laboratory Test

### Energy

9.9/10	Cold Test		→	20.5 kWh/100 km
10.0/10	Warm Test		→	19.8 kWh/100 km
8.7/10	Highway		→	29.1 kWh/100 km
7.8/10	Cold Ambient Test		→	35.7 kWh/100 km

### Consumption

### Driving Range

Average	23.2 kWh/100 km	379 km
Worst-case	35.7 kWh/100 km	239 km



n.a.



good



adequate



marginal



weak



poor

## Comments

The Kia EV6 slightly exceeds the lower Green NCAP threshold value of 20 kWh/100 km in the standard Cold and Warm WLTC+ Lab Tests. In the Highway Test the figure increases to 29 kWh/100 km and to almost 36 kWh/100 km in the Cold Ambient Test at -7°C, which can be attributed to the disproportionately higher aerodynamic drag at higher speeds and increased heating demand in cold winter conditions. The real-world on-road test was performed at a chilly 8°C ambient temperature on dry streets and the measured consumption figure was 19.5 kWh/100 km.

# 9.3

/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



9.2/10 Highway



8.1/10 Cold Ambient Test



n.a.



good



adequate



marginal



weak



poor

### Comments

The Greenhouse Gas (GHG) Index is based on a Well-to-Wheel+ approach, meaning that the GHG emissions related to the supply of energy are added to those of the tailpipe. The vehicle's production is not yet included in the assessment due to the implicit limitations of generic data about global supply chains, but its estimated value can be found in Green NCAP's LCA results [\[2\]](#). Since the Kia EV6 is a purely electric car, its assessed GHG emissions originate only from the upstream processes of electricity supply – ca. 56-101 g CO<sub>2</sub>-eq./km.

## Our Verdict

The Kia EV6 was the first Korean car to win the European Car of the Year award in 2022. The vehicle is a crossover SUV based on the Hyundai Group's Electric-Global Modular Platform (E-GMP). It is the first vehicle based on this platform, which it shares with the Hyundai IONIQ 5 and the Genesis GV60. It is an all-wheel-drive 4-door saloon with 5 seats and 239 kW of power delivered by the two permanent magnet synchronous motors. The EV6 is a relatively large and heavy vehicle and the consumption values it displays are ordinary but not spectacular. In particular, the Highway and the Cold Ambient Test energy demand figures are responsible for scores notably lower than those of the Hyundai IONIQ 6 also tested in 2024, but earn the EV6 the same rating as of the IONIQ 5 tested in 2022. The WLTP declared driving range of 484 km is reduced to 415 km in Green NCAP's cold start WLTC+ Lab Test and to 292 and 240 km in the Highway Test and in the Cold Ambient Test, respectively. Overall, the EV6 achieves an Average Score of 94% and receives 5 Green Stars.

## Disclaimer [↗](#)

## Specification

### Tested Car

KNAC481CPR516xxxx

<b>Publication Date</b> 09 2024	<b>Vehicle Class</b> Large Family Car	<b>Tyres</b> 255/45R20	<b>Emissions Class</b> AX
<b>Mass</b> 2,089 kg	<b>Engine Size</b> n.a.	<b>System Power/Torque</b> 239.3 kW/605 Nm	<b>Declared CO<sub>2</sub></b> n.a.
<b>Declared Battery Capacity</b> 74.6 kWh	<b>Declared Driving Range</b> Overall 484 km City 630 km	<b>Declared Consumption</b> 18 kWh/100 km	
<b>Heating Concept</b> Waste heat & PTC & Heat pump			



Think before you print