



HYUNDAI



2021

Hyundai NEXO

hydrogen 4x2 automatic



10.0 
/10

Clean Air
Index

7.3 
/10

Energy Efficiency
Index

10.0 
/10

Greenhouse Gas
Index

10.0
/10



Clean Air Tests



Laboratory Test

	NMHC	NO _x	NH ₃	CO	PN
10.0/10 Cold Test	●	●	●	●	●
10.0/10 Warm Test	●	●	●	●	●
10.0/10 Cold Ambient Test	●	●	●	●	●
10.0/10 Highway	●	●	●	●	●



Road Test

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



Robustness



n.a.



good



adequate



marginal



weak



poor

Comments

The NEXO is powered by a hydrogen fuel cell. Hydrogen is used to generate the electricity which is used to drive the car. The only thing that is emitted from the exhaust is water, so the vehicle scores maximum points in this part of the assessment.

Energy Efficiency Tests



Laboratory Test

Energy

8.3/10 Cold Test



8.9/10 Warm Test



6.5/10 Cold Ambient Test



5.7/10 Highway



Consumption

Driving Range

Average

1.3 kg/100 km

495 km

Worst-case

1.7 kg/100 km

378 km



n.a.



good



adequate



marginal
















weak



poor

Comments

Energy efficiency is extremely high, though not as high as a pure electric vehicle. Nevertheless, the car scores well in this part of the assessment with an index of 7.3.

	<u>Greenhouse gases</u>	CO ₂	N ₂ O	CH ₄
7.0/7	Cold Test			
7.0/7	Warm Test			
7.0/7	Cold Ambient Test			
7.0/7	Highway			



n.a.



good



adequate



marginal



weak



poor

Comments


The NEXO emits no greenhouse gases, its only tailpipe emission being water. Accordingly, maximum points are scored in this part of the assessment.

Our Verdict

First shown in 2018, the Hyundai NEXO is one of a small number of vehicles powered by a hydrogen fuel cell. In such vehicles, the hydrogen is not used directly as a source of power. Rather, the fuel cell uses the hydrogen to generate electricity which is then used to propel the vehicle, as in a conventional pure electric vehicle. There are no tailpipe emissions other than water. As a result, the NEXO scores full points for both the Clean Air and Greenhouse Gas indexes. Energy efficiency is also very high and the NEXO emerges with an average index just high enough to earn the car a maximum 5 star rating.

Disclaimer

Publication Date	Tested Car	Emissions Class	Tyres
02 2021	KMHJ8816FKU00 ^{xxxx}	Euro 6d-Temp	245/45R19 98W
Mass	Engine Size	Engine Power/Torque	Published CO ₂
1,799 kg	n.a.	120 kW/395 Nm	n.a.
Declared Battery Capacity	Published Driving Range		
n.a.	666 km		

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