

BMW X1

SDRIVE 18I PETROL FWD AUTOMATIC

2023



45%



7.7 
/10

**Clean Air
Index**

3.9 
/10

**Energy Efficiency
Index**

2.1 
/10

**Greenhouse Gas
Index**



Laboratory Test

NMHC

NO_x

NH₃

CO

PN

7.1/10 Cold Test



8.4/10 Warm Test



7.9/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing



Road Test

8.0/10 On-Road Drive



3.5/5 On-Road Short Trip



On-Road Heavy Load

Does not qualify for additional robustness testing

On-Road Light Load

Does not qualify for additional robustness testing

Congestion

Does not qualify for additional robustness testing



n.a.



good



adequate



marginal



weak



poor

Comments

Exhaust gas aftertreatment is handled very well by the X1 in all tests. The car repeatedly scores around 8 out of 10 points, and doesn't show any weakness even during the high-power accelerations of the challenging BAB130 Highway Test. In some cases the emissions are even close to Green NCAP's lower thresholds. The only noteworthy deductions come for particulate emissions where the sDrive18i gets only about half of the possible points. Yet, particle output is by a factor of 10 to 100 lower than the Euro 6 limit and the results are creditable for a direct injection petrol engine.

Energy Efficiency Tests



Laboratory Test

Energy

4.4/10 Cold Test



4.7/10 Warm Test



2.7/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing

Consumption

Driving Range

Average

7.2 l/100 km

753 km

Worst-case

8.2 l/100 km

656 km



n.a.



good



adequate



marginal



weak



poor

Comments

The 1.5 litre turbocharged petrol engine in the sDrive18i is the only one in the petrol X1 engine line-up not supported by any electrification. While the Warm and Cold WLTC+ Lab Tests require slightly more than 6.5 litres for 100 km, in the more demanding Highway Test the consumption increases to 8.2 l/100 km. However, in the standard On-Road Drive, the small SUV revealed its efficient side as well – 5.7 l/100 km were enough in this test. The total score in this part of the assessment is rather modest 3.9 out of 10.

2.1

/10

Greenhouse Gases Tests



Greenhouse gases

CO₂

N₂O

CH₄

2.7/10 Cold Test



3.1/10 Warm Test



0.6/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing



n.a.



good



adequate



marginal



weak



poor

Comments

CH₄ and N₂O emissions are very low and help earn all the available bonus points. The X1 confirms its official CO₂ emissions in the WLTC+ tests, but added upstream (Well-to-Tank+) greenhouse gas emissions push the overall values to around 190 g/km. The total climate changing emissions exceed Green NCAP's limits in the Highway Test and bring a result of 233 g CO₂-equivalent per kilometre including fuel production and supply related emissions of ca. 48 g CO₂-eq./km.

Our Verdict

The BMW X1 sDrive18i tested here is a small SUV with 1.5 l turbocharged petrol engine that is not supported by any type of hybrid system. It provides 100 kW peak power, which is the lowest among all currently offered X1 versions. Like most other fossil fuelled petrol cars, it scores least in the greenhouse gas index due to the CO₂ emissions measured at the tailpipe. Its efficiency is as expected for a vehicle of this type and powertrain and yet it manages to deliver good fuel consumption values in real-world driving – about 5.7 l/100 km in the standard On-Road Drive. The strongest discipline of the X1 is exhaust aftertreatment. In the Clean Air Index, the BMW demonstrated high and robust performance and earned a very well deserved 7.7 points out of 10. Overall the BMW X1 reaches an average score of 45% and collects 2½ Green Stars.

Disclaimer [↗](#)

Specification

Tested Car

WBA11EE0005W6xxxx

Publication Date 11 2023	Vehicle Class Small SUV	Tyres 245/45R19	Emissions Class Euro 6d AP
Mass 1,566 kg	Engine Size 1,499 cc	Power/Torque 100 kW/230 Nm	Declared CO₂ 155 g/km
Declared Battery Capacity n.a.	Declared Driving Range n.a.	Declared Consumption 6.9 l/100 km	

Heating Concept

Waste heat



Think before you print