

# BMW X1

SDRIVE 18I NONE 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<sub>x</sub>

NH<sub>3</sub>

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 one or two orders of magnitude 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

CO<sub>2</sub>

N<sub>2</sub>O

CH<sub>4</sub>

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

CH<sub>4</sub> and N<sub>2</sub>O emissions are very low and help earn all the available bonus points. The X1 confirms its official CO<sub>2</sub> 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 CO<sub>2</sub>-equivalent per kilometre including fuel production and supply related emissions of ca. 48 g CO<sub>2</sub>-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 CO<sub>2</sub> 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

<b>Publication Date</b> 11 2023	<b>Vehicle Class</b> Small SUV	<b>Tyres</b> 245/45R19	<b>Emissions Class</b> Euro 6d AP
<b>Mass</b> 1,566 kg	<b>Engine Size</b> 1,499 cc	<b>Power/Torque</b> 100 kW/230 Nm	<b>Declared CO<sub>2</sub></b> 155 g/km
<b>Declared Battery Capacity</b> n.a.	<b>Declared Driving Range</b> n.a.	<b>Declared Consumption</b> 6.9 l/100 km	

### Heating Concept

Waste heat



Think before you print