

BMW X2

SDRIVE201 M SPORT PETROL FWD AUTOMATIC



Sustainability Rating

2025



49%



Clean Air

6.6



Energy Efficiency

5.2



Greenhouse Gases

3.1/10

Driving Experience



Consumption & Range

ADEQUATE



Cold Winter Performance

NOT APPLICABLE



Charging Capability

NOT APPLICABLE



Our verdict

Tested here is the BMW X2 sDrive20i - a small SUV of 1,620 kg unladen weight, equipped with a 1.5 litre turbo-charged petrol engine supported by a 48 V-mild hybrid system. For a conventional vehicle of this type, the X2 achieves a creditable score of 49% and collects 2½ Green stars, very closely missing a third one. Like other tested conventional vehicles, the overall score is capped due to the combustion of fossil fuel, which clearly limits the performance in the Greenhouse Gas Index.

- > The exhaust aftertreatment system reduces pollutants effectively under all conditions. Particle emissions are kept well below limits but could improve further. The score for tyre abrasion mitigation is high, but the potential to reduce brake abrasion is limited.
- > Fuel use is moderate but limits the sustainability scoring. Lab test measurement resulted in 5.8-7.7 I/100 km, while the mixed trip On-road test needed 5.7 I/100 km.
- > Fossil fuel combustion drives high GHG emissions: the average measured direct propulsion GHG emissions are 147.5 g CO₂/km. The additional emissions from the other LCA phases further reduce the score.

Disclaimer











6.6

Comments

Like the other BMW cars recently tested by Green NCAP, the X2's exhaust aftertreatment also demonstrates efficient and robust performance under a variety of conditions. It reliably reduces the pollutants even under harsh acceleration conditions in the Highway Test. Although the particle number emissions are well below the legal limit, they are not low, and their further mitigation could help reach an even higher score in this part of the assessment. The On-road tests confirm the findings made in the lab. The car scores well for tyre abrasion but collects less than one third of the points for brake abrasion mitigation due to the limited energy recuperation capacity of the mild hybrid system. The pollutants associated to the vehicle production and supply of the fuel deteriorate the final Clean Air Index score slightly.

Exhaust emissions

Exhaust pollutant emissions are produced from combustion engines. Although current emission legislation is very strict, this type of emission directly affects air quality, and not all vehicles perform equally well. Read more

GOOD

GOOD

ADEQUATE -

PM

2025

7.8/10

In laboratory

7.3 /10

Green NCAP performs a wide range of tests on cars controlled conditions and guarantee that all cars ar comparable. Read more							
	NMHC	NO _x	NH ₃	CO	PN	PM	Score
Legal test (WLTP)	•					•	5.9 /8
Warm weather	•					•	8.2/10
Highway	•					•	6.6 /10
Winter cold start	•		•			•	6.9 /10
Winter warm start						•	8.0/10















Short city trip

Congestion

Real-world mixed drive



An on-road driving test, using portable emissions measuring equipment complements Green NCAP's laboratory tests. Read more





NO_x



CO



On road





NMHC



NH,





8.5 /10

Score

7.4/10

9.3/10

2.0/2

Non-exhaust emissions

Driving a vehicle also produces emissions different from those of the exhaust pipe. Green NCAP evaluates vehicle properties that contribute to tyre and brake abrasion.

MARGINAL -

ADEQUATE -

WEAK

2025

5.5/10

5.0/6

2.0/3

1.7/6

6.6 /10

Tyre wear

Tyre abrasion releases small particles during driving, and some vehicle properties have major impact on it. Heavier vehicles, wheel alignment causing increased slip angle, and aggressive acceleration responses all increase tyre wear and particle emissions. Read more

Influence of mass

Wheel alignment

Accelerator response

Result Score

1.0/1

2.0/2

Brake wear

Brake dust, produced by friction brakes, can be mitigated through filters, enclosed brake systems (like drums), or by reducing friction brake use with regenerative braking in electrified vehicles. Containment keeps dust inside the system, while recuperation lowers brake wear. However, heavier vehicles still generate more brake abrasion due to their greater stopping demands. Read more

> Score Result

0.0/4 **Brake dust mitigation**

0.0/6 **Brake dust containment**

1.7/6 Recuperative braking - warm test





























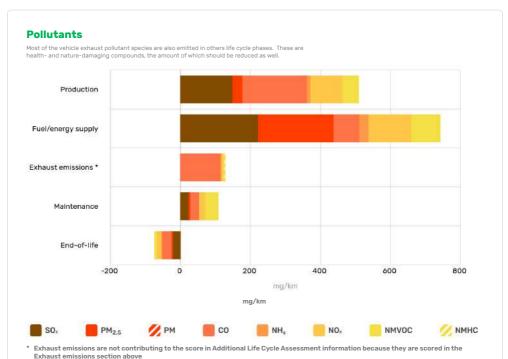


Additional Life Cycle Assessment information

Life Cycle Assessment (LCA) investigates the environmental impact of a car over its entire lifetime, 'from cradle to grave'. In this section, pollutants are estimated in the various stages of a vehicle's life other than use. The chart also displays the measured emissions related to usage, which are taken as an average from the tests and are scored separately in the 'Exhaust emissions' part above. The end-of-life approach uses results in negative values because the benefit of materials recovery and recycling exceeds the effort of obtaining and processing virgin raw materials.

MARGINAL |

3.9/10

































Energy Efficiency

5.2 /10

Comments

The car's petrol consumption figures are as expected for a vehicle of this type, with no surprises. Consumption figures of 7.1 l/100 km in the -7°C Cold Winter test or 7.7 l/100 km in the Highway Test limit the car's sustainability performance. In a real-world mixed On-road trip, Green NCAP measured 5.7 l/100 km; the short urban trip needed 6.5 l/100 km. In terms of life cycle assessment, the total primary energy demand benefits from the absence of a heavy battery, the production of which would further increase the need for energy. Nevertheless, the amounts of fuel needed by the conventional combustion engine to propel the X2 SUV limit the achievable score also in this section.

Energy demand

















adequate

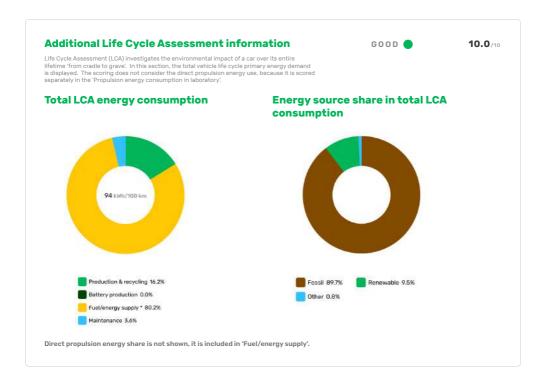
marginal





Energy Efficiency

5.2 /10



Rolling resistance

Rated here is the vehicle's resistance to movement at low speeds. Different factors have an impact on it, but the most significant one is mass.

ADEQUATE -

7.9/10

































🔼 Greenhouse Gases

3.1/10

Comments

Although the non-usage LCA phases of a conventional vehicle emit less greenhouse gases compared to an electric car, the combustion of fossil fuels increases the emissions over proportionally and leave the BMW with a low score in this part of the assessment. The average direct GHG emissions in Green NCAP's lab tests are 147.5 g $\rm CO_2$ -eq./km. Added are additional 93.5 g $\rm CO_2$ -eq./km, which are related to production, maintenance and end-of-life treatment, as well as the emissions originating from the petrol fuel supply processes.

Exhaust GHG emissions

Combustion of conventional fuels releases greenhouse gases at the vehicle's tailpipe. The most significant of these gases are the emissions of CO_2 . Green NCAP's assessment considers methane (CH $_3$) and laughing gas (N $_4$ O) as well. Together, these are counted with their global warming potential to a sum known as CO_3 equivalent.

WEAK • 1.3/10



















adequate

marginal





Greenhouse Gases

3.1/10

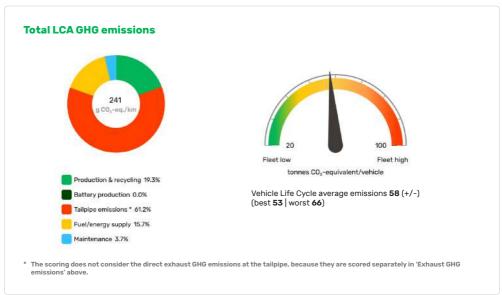
Additional Life Cycle Assessment information

Life Cycle Assessment (LCA) investigates the environmental impact of a car over its entire lifetime, 'from cradle to grave'. In this section, the total vehicle life cycle greenhouse gas emissions are displayed.

ADEQUATE -

2025

8.2/10



































Driving Experience



Consumption & Range

ADEQUATE



Cold Winter Performance

NOT APPLICABLE



Charging Capability

NOT APPLICABLE

Green NCAP Comment

The Driving Experience evaluation of conventional vehicles focuses only on the performance in section 'Consumption and Range'. The BMW X2's estimated real-world consumption figures are seen as adequate in all conditions – warm weather and cold winter, urban, rural, highway and mixed driving scenarios. The consumption readings on the board computer display are impressively accurate.





Consumption & Range

ADEQUATE -

ADEQUATE -

GOOD

Estimated actual consumption

What consumption can be expected in real world conditions?

In-laboratory measured consumption values are only partially representative of real-world use. Green NCAP's estimates aim at providing more realistic figures, which are based on measured results, modified by correction factors.

Conditions	Urban	Rural	Highway	Mixed
Warm weather	8.1	5.4	6.4	7.1 1/100 k
Cold Winter	9.4	6.0	7.2	8.0 I/100 k

Accuracy of display

Is the consumption figure on the display correct?























NOT APPLICABLE















Charging Capabilities

NOT APPLICABLE











Specifications

Vehicle class

Small SUV

System power/torque

130 kW/280 Nm

Engine size

1,499 ...

Declared consumption

5.9 I/100 km

Declared driving range

Overall n.a. City n.a.

Declared CO₂

132 g/km

Declared battery capacity

Usable (net) n.a. Installed (gross) n.a.

Mass

1,620 kg

Heating concept

Waste heat

Tyres

245/45 R19

Emissions class

Euro 6 EA

Tested car

WBA21GM080530xxxx

Publication date

11 2025











