

# Toyota bZ4X

150 KW ELECTRIC FWD AUTOMATIC

2024



97%



10.0   
/10

**Clean Air  
Index**

9.4   
/10

**Energy Efficiency  
Index**

9.7   
/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




With no tailpipe emissions, the electric Toyota bZ4X naturally scores the full 10 points in the Clean Air part of the assessment.

# Energy Efficiency Tests



## Laboratory Test

### Energy

10.0/10	Cold Test		→	17.3 kWh/100 km
10.0/10	Warm Test		→	16.9 kWh/100 km
9.1/10	Highway		→	26.1 kWh/100 km
8.7/10	Cold Ambient Test		→	29.1 kWh/100 km

### Consumption

### Driving Range

Average	20.1 kWh/100 km	362 km
Worst-case	29.1 kWh/100 km	240 km



n.a.



good



adequate



marginal



weak



poor

### Comments

The Toyota bZ4X demonstrates low consumption in the Cold and Warm Laboratory Tests – ca. 17 kWh/100 km from the grid. In the Highway cycle, the electric SUV uses significantly more – 26.1 kWh/100 km, corresponding to a range of 268 km. The On-Road Drive was performed on a dry road at around 19°C and the Toyota needed slightly less than 17 kWh/100 km, giving it a range of around 419 km. In the -7°C Cold Ambient Test, the mid-sized SUV shows an energy demand of 29.1 kWh/100 km from grid, meaning a worst case of 240 km driving range, if the trip were repeated until the battery was depleted.



## 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



9.6/10 Highway



9.2/10 Cold Ambient Test



n.a.



good



adequate



marginal



weak



poor

### Comments

This Index is based on a Well-to-Wheel+ approach, meaning that the GHG emissions related to the supply of the 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 [↗](#). As the bZ4X is purely electric, its GHG emissions originate only from electricity supply – ca. 48-82 g CO<sub>2</sub>-eq./km, depending on the test consumption.

## Our Verdict

The new Toyota bZ4X is the Japanese manufacturer's first full electric vehicle. It is a mid-sized SUV with a maximum power of 150 kW and an officially declared usable battery capacity of 64 kWh. The mass of the empty vehicle is 1,976 kg. In Green NCAP's testing, Toyota had to show whether all their experience with hybrid-electric vehicles pays off with BEVs. The measured test consumption values are creditable and the vehicle shows good comfort for the passengers in cold and warm environment in its default driving mode. Heating is provided by a high voltage heater and a heat pump. For the battery capacity test the vehicle was charged with 11 kW charging power. 63.3 kWh were measured as the usable battery capacity, which corresponds well to the advertised figure. The full battery recharge takes 70.0 kWh from the electricity grid, which results in a good grid-to-battery output efficiency of 90.4%, a value slightly above the average of Green NCAP's tested EV fleet. Overall, the Toyota bZ4X finishes with an Average Score of 97%, easily collects all 5 Green Stars and proves that Toyota can also build energy efficient EVs.

## Disclaimer [↗](#)

## Specification

### Tested Car

JTMAABAA70A02xxx

<b>Publication Date</b> 09 2024	<b>Vehicle Class</b> Small SUV	<b>Tyres</b> 235/50R20 104V	<b>Emissions Class</b> AX
<b>Mass</b> 1,967 kg	<b>Engine Size</b> n.a.	<b>System Power/Torque</b> 150 kW/265 Nm	<b>Declared CO<sub>2</sub></b> n.a.
<b>Declared Battery Capacity</b> 64.0 kWh	<b>Declared Driving Range</b> Overall 443 km City 591 km	<b>Declared Consumption</b> 16.7 kWh/100 km	
<b>Heating Concept</b> HVH & Heat pump			



Think before you print