



TOYOTA



2021

Toyota Prius

1.8 plug-in hybrid 4x2 CVT



6.0 
/10

**Clean Air
Index**

8.3 
/10





















**Energy Efficiency
Index**

7.0 
/10

**Greenhouse Gas
Index**




























Laboratory Test

	NMHC	NO _x	NH ₃	CO	PN
6.9/10 Cold Test					
7.7/10 Warm Test					
3.1/10 Cold Ambient Test					
7.5/10 Highway					



Road Test

7.1/10 On-Road Drive					
2.5/8 On-Road Heavy Load					
2.3/5 On-Road Light Load					
4.0/5 On-Road Short Trip					
2.0/2 Congestion					



Robustness



n.a.



good



adequate



marginal



weak



poor

Comments





In general, the Prius does a good job of controlling pollutant emissions, even when driven in petrol mode. However, the car tested by Green NCAP was not equipped with a gasoline particulate filter (GPF) and particulate number was somewhat elevated in the cold ambient temperature test. Green NCAP is informed that current production vehicles are equipped with a GPF.

Energy Efficiency Tests



Laboratory Test

Energy

9.1/10	Cold Test	
9.3/10	Warm Test	
6.3/10	Cold Ambient Test	
6.1/10	Highway	

	Consumption		Driving Range		
	Petrol	Electric	Petrol	Electric	
Average	4.8 l	19.7 kWh /100 km	888	39	km
Worst-case	5.0 l	0.0 kWh /100 km	864	n.a.	km

Consumption in WLTC+ Battery Depleting Cycle: 13.7 kWh/100 km electric + 0.7 l/100 km fuel



n.a.



good



adequate



marginal



weak



poor

Comments

The Prius PHEV performs extremely well in this part of the assessment, with an average consumption of just 4.8 l/100 km in petrol mode. In its mainly-electric mode, energy consumption is modest although, even in this mode, there was some consumption of fuel.

7.0



/10

Greenhouse Gases Tests



Greenhouse gases

CO₂

N₂O

CH₄

5.2/7 Cold Test



4.9/7 Warm Test



3.6/7 Cold Ambient Test



3.8/7 Highway



n.a.



good



adequate



marginal



weak



poor

Comments

Emissions of the unregulated pollutants N₂O (laughing gas) and CH₄ (Methane) are vanishingly small, and those of carbon dioxide (CO₂) are low, giving an index of 7/10 in this part of the assessment.

Our Verdict

Toyota has been committed to electrification for many years and, in 1997, the Prius became the earliest hybrid vehicle in mainstream production. Toyota's experience in the field has paid off and the plug-in hybrid version of this, the fourth-generation Prius, impresses on many levels. Pollutant emissions are well controlled and the values recorded here would be improved by the gasoline particulate filter fitted to current production cars. Energy efficiency is extremely good, the dual motor generator drive system, powered by an 8.8 kWh lithium-ion battery, interacting well with the 1.8 litre petrol engine, giving an index of 8.3 in this part of the assessment. Overall, the Prius PHEV shows what can be achieved by a well-engineered plug-in hybrid, and emerges from Green NCAP's tests with a worthy 4 star rating.

Disclaimer

Publication Date 02 2021	Tested Car JTDKA3FPX0307xxxx	Emissions Class Euro 6c	Tyres 195/65 R15
Mass 1,536 kg	Engine Size 1,798 cc	Engine Power/Torque 90 kW/142 Nm	Published CO ₂ 28 g/km
	Declared Battery Capacity 8.79 kWh	Published Driving Range n.a.	



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