



Safe &
Green



ANCAP
SAFETY

**ANCAP SAFETY RATINGS FOR
ALTERNATIVE-POWERED MODELS**

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Safe *and* green: Environmental outcomes should not come at the cost of safety.

We can all play our part to ensure the future of the Australian vehicle fleet is both safe *and* green.

Safety and environmental performance are top-of-mind considerations for new car buyers today, and ANCAP encourages all consumers and fleet buyers to consider the safest green vehicle they can afford.

How does ANCAP test green vehicles?

Electrified vehicles (including **battery electric**, **fuel cell** and **hybrid-electric** vehicles) are subjected to the same ANCAP crash protection and crash avoidance tests as any other vehicle rated by ANCAP.

Some additional elements are monitored by ANCAP as part of the testing process:

- **The output of the high-voltage battery is monitored.** High voltage batteries are fitted with a 'safety cut-out' that will rapidly disconnect the battery in the event of a crash. We monitor the output to record if and when this cut-out operates.
- **The vehicle body is checked safely for any high-voltage immediately after the crash.** If the safety cut-out were to fail and a damaged high-voltage wire was to be in contact with the vehicle body, then a person touching the vehicle could be injured. Test technicians use insulated gloves and stand on a rubber mat to ensure that the vehicle has no high voltages and is safe to touch.
- **The battery is examined for any sign of damage,** such as intrusion into the battery unit, leakage of fluids, fire or abnormal heat.

We also seek **Rescue Cards** from vehicle manufacturers each time we rate a vehicle. Rescue Cards are designed to assist emergency services personnel in quickly identifying in-vehicle hazards - such as high-voltage batteries - to minimise risk to first responders, and safely free occupants from the vehicle following a crash.

To date, more than ninety battery electric, plug-in hybrid, hybrid and hydrogen powered vehicles available to purchase as new in Australia have been tested and rated by ANCAP SAFETY.





















This guide provides private, business and fleet vehicle buyers with a quick reference as to the safety performance of a range of battery electric, plug-in hybrid, hybrid and hydrogen powered models.

Further details are available at [ancap.com.au](https://www.ancap.com.au)

Information contained in this document pertains to safety performance only, as assessed against ANCAP protocols. Vehicle emission performance does not form part of ANCAP assessments.

ALTERNATIVE-POWERED MODELS


























BY SAFETY RATING & POWERTRAIN

MAKE & MODEL	VEHICLE TYPE	ADULT OCCUPANT PROTECTION	CHILD OCCUPANT PROTECTION	VULNERABLE ROAD USER PROTECTION	SAFETY ASSIST	ANCAP SAFETY RATING	POWERTRAIN
Alfa Romeo Tonale	Small SUV	84%	87%	67%	85%	★★★★★ 2022	
Audi Q8 e-tron	Medium SUV	91%	88%	71%	78%	★★★★★ 2019	
BMW 3 Series	Medium Car	97%	87%	87%	77%	★★★★★ 2019	
BMW 5 Series	Large Car	89%	87%	86%	81%	★★★★★ 2023	
BMW i4	Medium Car	87%	89%	71%	62%	★★★★★ 2022	
BMW iX	Medium SUV	91%	88%	73%	78%	★★★★★ 2021	
BMW iX1	Small SUV	86%	88%	76%	94%	★★★★★ 2022	
BMW iX3	Medium SUV	93%	84%	70%	58%	★★★★★ 2017	
BYD ATTO 3	Small SUV	91%	84%	69%	80%	★★★★★ 2022	
BYD DOLPHIN	Small Car	89%	86%	85%	77%	★★★★★ 2023	
BYD SEAL	Medium Car	89%	87%	82%	75%	★★★★★ 2023	
Citroen C4	Small Car	76%	81%	57%	62%	★★★★★ 2021	
Cupra Born	Small Car	93%	89%	73%	80%	★★★★★ 2022	
Cupra Formentor	Small SUV	93%	88%	68%	80%	★★★★★ 2021	
Cupra Leon	Small Car	91%	88%	71%	80%	★★★★★ 2020	
Fiat 500e	Light Car	78%	79%	67%	67%	★★★★★ 2021	
Ford Escape	Medium SUV	92%	89%	82%	77%	★★★★★ 2019	
Ford Mustang Mach-E	Small SUV	92%	88%	69%	82%	★★★★★ 2021	
Genesis G80	Large Car	91%	86%	77%	80%	★★★★★ 2021	
Genesis GV60	Small SUV	89%	89%	63%	88%	★★★★★ 2022	



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Genesis GV70	Medium SUV	89%	89%	64%	87%	★★★★★ 2021	
GWM Haval H6	Medium SUV	90%	88%	73%	81%	★★★★★ 2022	
GWM Haval Jolion	Small SUV	90%	84%	64%	92%	★★★★★ 2022	
GWM Ora	Small Car	92%	84%	74%	93%	★★★★★ 2022	
GWM Tank 300	Large SUV	88%	89%	81%	85%	★★★★★ 2022	
Honda HR-V	Small SUV	82%	77%	72%	69%	★★★★★ 2022	
Hyundai IONIQ 5	Medium SUV	88%	87%	63%	89%	★★★★★ 2021	
Hyundai IONIQ 6	Medium Car	97%	88%	66%	90%	★★★★★ 2022	
Hyundai Nexo	Medium SUV	94%	89%	67%	80%	★★★★★ 2018	
Jaguar i-PACE	Medium SUV	91%	81%	73%	77%	★★★★★ 2018	
Jeep Grand Cherokee	Large SUV	83%	93%	81%	84%	★★★★★ 2022	
Kia EV6	Large SUV	90%	87%	64%	88%	★★★★★ 2022	
Kia EV9	Large SUV	84%	87%	76%	85%	★★★★★ 2023	
Kia Niro	Small SUV	88%	84%	76%	87%	★★★★★ 2022	
Kia Sorento	Large SUV	82%	85%	63%	89%	★★★★★ 2020	
Land Rover Defender	Large SUV	85%	88%	71%	76%	★★★★★ 2020	
Land Rover Range Rover	Large SUV	84%	86%	72%	84%	★★★★★ 2022	
Land Rover Range Rover Evoque	Small SUV	94%	89%	72%	73%	★★★★★ 2019	
Land Rover Range Rover Sport	Large SUV	85%	86%	69%	84%	★★★★★ 2022	
LDV MIFA 9	People Mover	93%	88%	73%	90%	★★★★★ 2022	
Lexus ES	Medium Car	91%	86%	90%	76%	★★★★★ 2018	
Lexus NX	Medium SUV	91%	89%	83%	92%	★★★★★ 2022	
Lexus RX	Large SUV	90%	89%	89%	93%	★★★★★ 2022	



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Lexus RZ	Medium SUV	87%	89%	84%	84%	★★★★★★ 2023	
Lexus UX	Small SUV	96%	88%	82%	83%	★★★★★★ 2019	 
Mazda CX-60	Medium SUV	91%	93%	89%	77%	★★★★★★ 2022	
Mazda MX-30	Small SUV	93%	87%	68%	74%	★★★★★★ 2020	 
Mercedes-Benz EQA	Small SUV	97%	92%	81%	77%	★★★★★★ 2019	
Mercedes-Benz EQB	Medium SUV	95%	91%	78%	76%	★★★★★★ 2019	
Mercedes-Benz EQC	Medium SUV	96%	92%	75%	76%	★★★★★★ 2019	
Mercedes-Benz EQE	Large Car	95%	92%	83%	82%	★★★★★★ 2022	
Mercedes-Benz EQE SUV	Large SUV	87%	92%	80%	86%	★★★★★★ 2023	
Mercedes-Benz EQS	Large Car	96%	93%	76%	80%	★★★★★★ 2021	
MG 4 Electric	Small Car	83%	86%	75%	81%	★★★★★★ 2022	
Mitsubishi Eclipse Cross	Small SUV	97%	78%	80%	58%	★★★★★★ 2017	
Mitsubishi Outlander	Medium SUV	83%	92%	81%	83%	★★★★★★ 2022	
Nissan Leaf	Small Car	93%	85%	71%	70%	★★★★★★ 2018	
Nissan X-Trail	Medium SUV	91%	90%	74%	97%	★★★★★★ 2021	
Opel Corsa	Small Car	84%	86%	66%	71%	★★★★★★ 2019	
Opel Mokka	Small SUV	76%	77%	58%	65%	★★★★★ 2021	
Peugeot 308	Small Car	79%	86%	68%	82%	★★★★★ 2022	
Peugeot 508	Large Car	96%	87%	71%	76%	★★★★★★ 2018	
Polestar 2	Medium Car	92%	87%	80%	82%	★★★★★★ 2021	
Renault Megane E-Tech	Small SUV	85%	88%	65%	80%	★★★★★★ 2022	
Skoda Enyaq	Medium SUV	94%	89%	71%	73%	★★★★★★ 2021	
Subaru Forester	Medium SUV	94%	86%	80%	78%	★★★★★★ 2019	



BATTERY ELECTRIC



HYBRID OR PHEV



HYDROGEN FUEL CELL ELECTRIC

MAKE & MODEL	VEHICLE TYPE	ADULT OCCUPANT PROTECTION	CHILD OCCUPANT PROTECTION	VULNERABLE ROAD USER PROTECTION	SAFETY ASSIST	ANCAP SAFETY RATING	POWERTRAIN
Subaru Solterra	Small SUV	88%	88%	79%	93%	★★★★★★ 2022	
Tesla Model Y	Small SUV	97%	89%	82%	98%	★★★★★★ 2022	
Toyota bZ4X	Small SUV	88%	88%	79%	93%	★★★★★★ 2022	
Toyota Camry	Large Car	N/A	N/A	N/A	N/A	★★★★★★ 2017	
Toyota C-HR	Small SUV	87%	77%	65%	68%	★★★★★★ 2017	
Toyota Corolla	Small Car	96%	83%	86%	76%	★★★★★★ 2018	
Toyota Corolla Cross	Small SUV	85%	88%	87%	83%	★★★★★★ 2022	
Toyota Kluger	Large SUV	90%	88%	76%	82%	★★★★★★ 2021	
Toyota Mirai	Large Car	88%	87%	80%	83%	★★★★★★ 2021	
Toyota RAV4	Medium SUV	93%	89%	85%	83%	★★★★★★ 2019	
Toyota Yaris	Light Car	86%	87%	78%	87%	★★★★★★ 2020	
Toyota Yaris Cross	Small SUV	86%	86%	78%	82%	★★★★★★ 2021	
Volkswagen Golf	Small Car	88%	87%	74%	76%	★★★★★★ 2022	
Volkswagen ID.4	Medium SUV	93%	89%	76%	76%	★★★★★★ 2021	
Volkswagen ID.5	Medium SUV	93%	89%	76%	76%	★★★★★★ 2021	
Volkswagen Multivan	People Mover	90%	89%	69%	79%	★★★★★★ 2022	
Volvo C40 Recharge	Small SUV	92%	89%	70%	91%	★★★★★★ 2022	
Volvo XC40	Small SUV	97%	84%	71%	78%	★★★★★★ 2018	

ANCAP safety ratings apply to vehicles sold in Australia as new and do not apply to used imported vehicles. Complete rating information, including details on variant applicability is available at [ancap.com.au](https://www.ancap.com.au)