TOYOTA

VEHICLES DISPLAYED AT JAPAN ELECTRIC VEHICLE ASSOCIATION STAND

Toyota has worked on electric car development since 1969. And in 1991, we developed the Townace Van EV, and to gather more data, we started monitor sales in 1992. In 1993, we developed a Crown Majesta EV, which was leased to the Tokyo metropolitan government. We have made many efforts in this field, such as placing RAV4 EV cars in the hands of monitor drivers, and we believe we are leading the world in electric vehicle development. Many hurdles — such as improved battery technology — remain to be cleared, but Toyota is striving to find workable solutions. At the 31st Tokyo Motor Show, two Toyota electric vehicles are on display at the Japan Electric Vehicle Association Pavilion — the RAV4 EV and the Coaster hybrid EV.

RAV4 EV Main Specifications

Based on		RAV4L
Length x Width x Height		3,695mm x 1,695mm x 1,610mm
Curb weight		1,350kg
Seating capacity		4
Top speed		125km/h
Range (urban drive)		180km
Transaxle		Single speed (front wheel drive)
Motor	Type	Permanent magnet motor
	Max. output	45kw
	Max. torque	165Nm/2,600rpm
Batteries	Type	Valve-regulated nickel-metal hydride
	Voltage/number	12V/24
Tires		195/80R16
Equipment		Regenerative braking system Electric hydraulic power steering

RAV4 EV

This electric vehicle was based on a RAV4. By using a high-efficiency motor with permanent magnets, we were able to make the drive train more compact, even though it is more powerful, with better acceleration. The valve-regulated batteries are placed beneath the floor, providing ample interior space and assuring high stability. An on-board charger allows the use of ordinary household current to charge the batteries. In addition, the regenerative braking system feeds energy back to the batteries when engaged, extending the driving range on a single charging. This car won overall honors at the first Scandinavian Electric Car Rally in 1995.

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Coaster Hybrid EV Main Specifications

Based on		Coaster bus
Length x Width x Height		6,990mm x 2,070mm x 2,580mm
Curb weight		4,150kg
Seating capacity		14+1 (Wheelchair)
Generator engine		1,331cc (4E-FE)
Engine speed ranges used		1,000-3,000rpm
Power generated		20kW
Top speed		80km/h
Motor	Type	AC induction motor
	Max. output	70kW
	Max. torque	405Nm/1,650rpm
Batteries	Type	Sealed lead-acid
	Voltage/number	12v/24
Equipment		Regenerative brake system Wheelchair lifter

Coaster hybrid EV

This is a new hybrid electric bus with both gasoline engine and electric motor. This system uses the gasoline engine to generate electricity, which is stored in the batteries, and the electric motor to drive the bus. Compared to a diesel Coaster bus, the emissions are cleaner and the bus is quieter. Also, unlike pure electrical vehicles, the hybrid bus's range is not limited to the energy stored in its batteries during a single charge. The special vehicle on display is equipped with a wheelchair lifter to enable the physically challenged to ride the bus.