

Honda Electric Road System

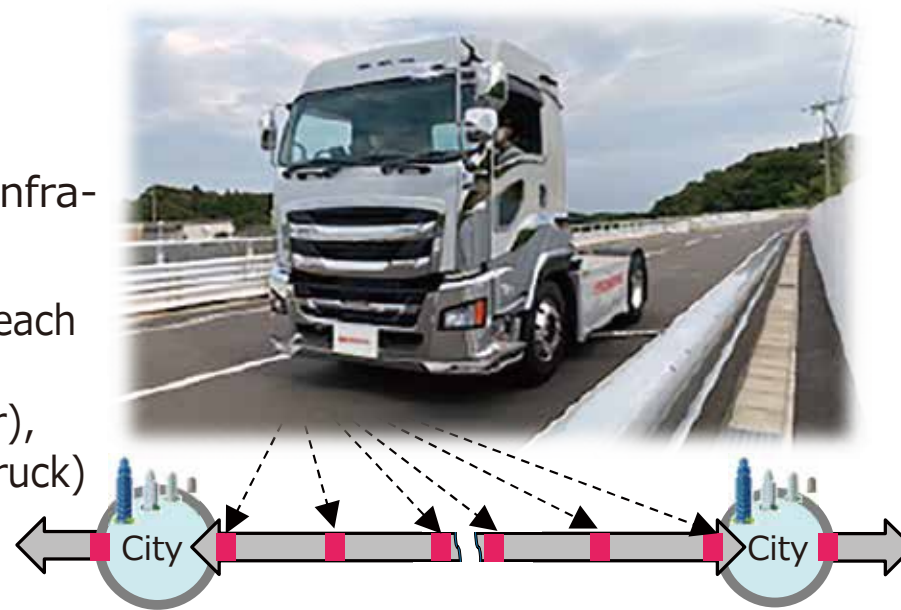
Our Goal

Develop a new technology in traveling and moving (using energy charge and supply technology while driving) with integration of automobiles and road infrastructure, and create a path toward a new mobile society and global environment protection.

Zero Emission While Driving and Infinite EV Cruising Range

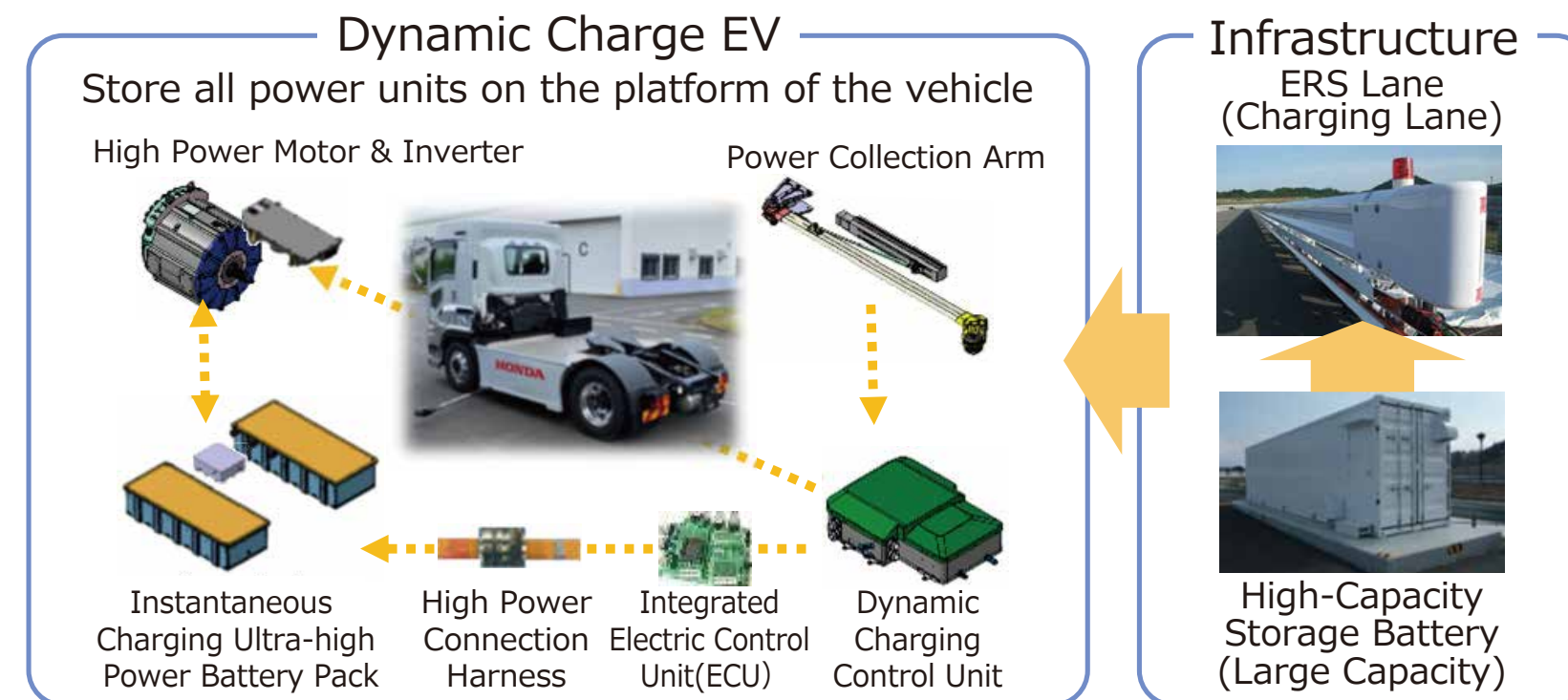
Infinite EV cruising range by intermittently charging while driving

- Applicable on Passenger Car and Heavy-duty truck (sharing the same infrastructure).
- Charging distance of each 50km section: 2.7Km (Passenger Car), 15 km (Heavy-duty truck)



Electric Road System :ERS (Dynamic Charging System)

Total System Development (Develop both vehicles and infrastructure)

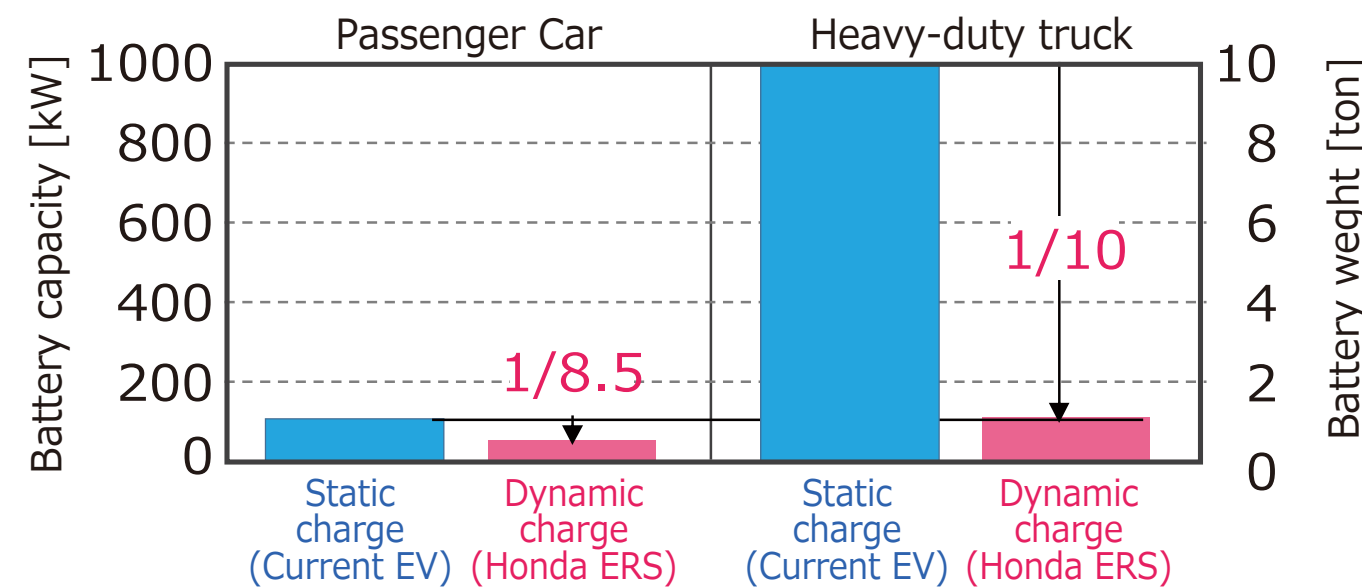


Heavy-duty truck Specifications

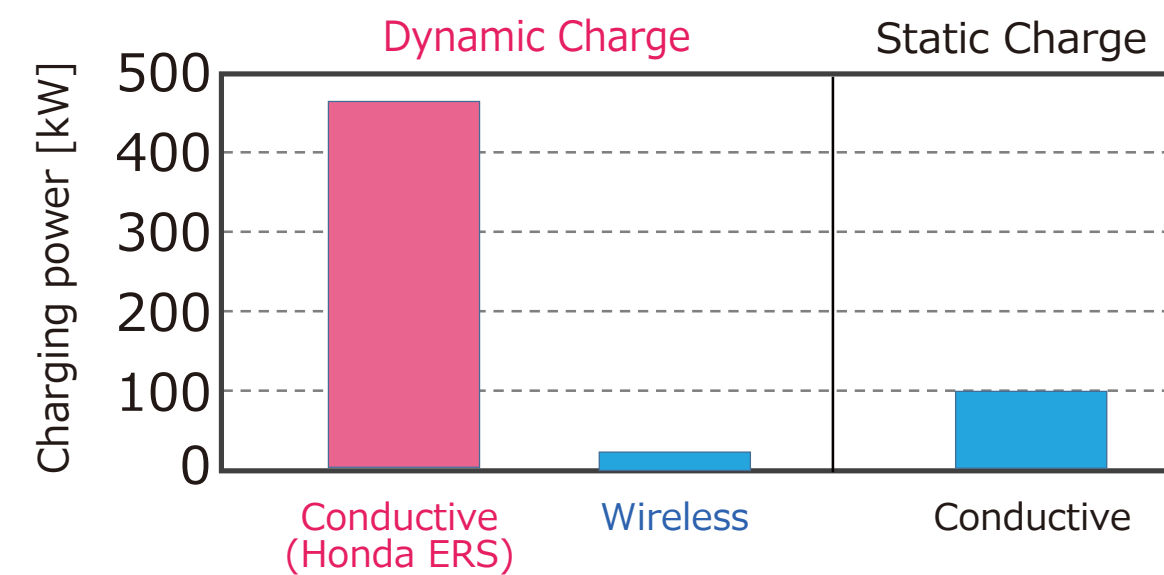
Total vehicle weight	45.29t	
Max. load weight	38.04t	
Tractor weight	7.25t	
Max. Speed (Legal Speed)	80 km/h (Speed Limiter)	
Cruising Range	Infinite (km)	
Motor	Max. Power	350 kW(476 PS)
	Max. Torque	3,500 N·m
Battery	Battery Capacity	100 kWh(50kWh×2)
	Max. Power Output	DC750 V, 600 A
Dynamic Charge	Charging Power	450 kW (DC750 V,600A)
	Vehicle Speed	7(Creep speed)~80 km/h
	Vehicle to Road Distance	0.1 ~1.5 m
Charging distance (80 km/h while driving)		Charges 15 km (in 50 km section)

Reduction of on-board batteries (One Tenth the Amount)

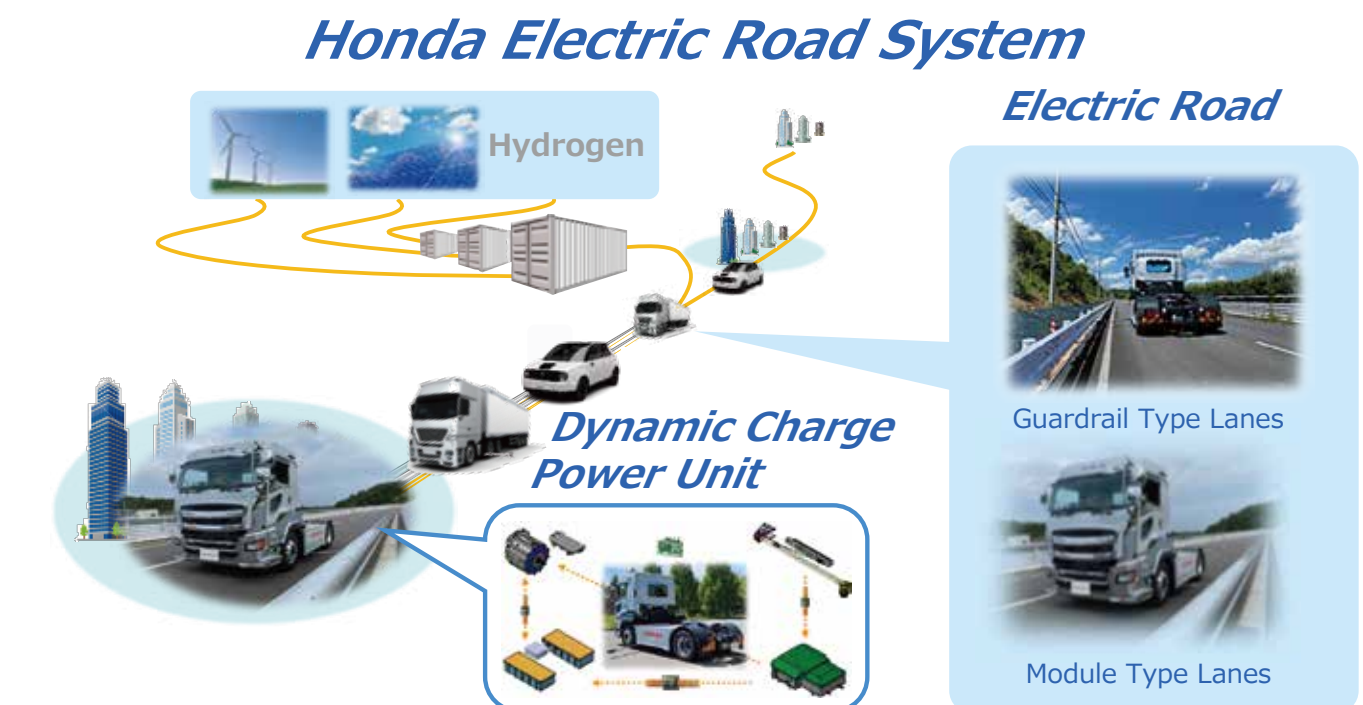
- Battery capacity, Cost, Waste amount : One tenth of Current EV
- Electrification of Heavy-duty truck realizable with same battery capacity as current Passenger EV



Ultra Fast Charging (450 kW)



Expand the Travel Range by Electrification



Leading the mobility evolution by accelerating the logistics of electrification, and developing the world's first, by standard charging system while driving