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The next-generation core model to carve the path to a true EV society, advanced development prototype model No. 4 SIM-HAL is now complete.

SIM-Drive Corporation, dedicated to the research and development of electric vehicles (Headquarter: Kanagawa Prefecture, President: Nobuhiro Tajima), joined by 8 organizations (fig. 2) who plan to enter the electric vehicle business in the future, have together developed the advanced Prototype No. 4 in approximately one year from February 2013, to produce their business achievement “SIM-HAL”.

SIM-Drive intends to utilize technology acquired in the development of SIM-HAL to extend the movement to proliferate electric vehicles.

New Technologies of SIM-HAL

1. Newly developed ultra lightweight, high efficiency SS motor
2. Greatly improved handling and stability by independent four wheel control
3. Ten technological implementations from organizations participating in joint development.

Advanced Prototype Model No. 4 SIM-HAL

Next-Gen core model to carve the path to a true EV society



“SIM-HAL” is a fourth generation electric vehicle built based on SIM-Drive’s proprietary fundamental technology of Direct Drive In-wheel Motor and Built-in Component Frame. Vehicle dynamics have been developed and refined with the objective to create a core next-gen model for the coming age of civilization with EV. Not only achieving high maneuverability and stability, SIM-HAL does not fail to impress with its powerfully emotive styling like no other.

SIM-HAL takes its name from “**H**igh efficiency **A**ll-wheel **L**ink” which means driving power to all-wheels are allocated with high efficiency, for the operator to travel afar safely and swiftly. By implementing new technologies to the drive system, SIM-HAL is worthy of the motto agreed by participating organizations “Next-Gen core model to carve the path to a true EV society”.

SIM-HAL demonstrates the following features by contribution of 10 technological developments, newly adapted light-weight/high efficiency SS motor, and highly maneuverable/highly efficient four wheel independent control system:

1. Driving range as much as gasoline powered vehicles on full charge.
2. Practical drive range on one rapid recharge.
3. Top class acceleration performance of all EV.
4. Greatly improved handling and stability by four wheel independent control system.
5. ‘SIM-iACT’ concept aims to relieve anxieties associated with EV and improve convenience.

Length/Width/Height	4910mm/1835mm/1405mm
Weight	1510kg
Max Seating Capacity	2
Drive Type	Outer Rotor Direct Drive In-wheel Motor
Drive Wheel	4
Minimum Turning Radius	5.5m
Single Charge Drive Range (JC08 Mode)	404.1km (*1)
Drive Energy Consumption(JC08Mode)	86.9Wh/km (*1)
Maximum Output	260kW (65kW per motor)
Maximum Torque	2480Nm (620Nm per motor)
0 to 100km/h acceleration	4.70 sec. (with 205/40R17 tires) (*1)
Maximum Speed	180km/h (*2)
Battery Capacity	35.1kWh (Lithium-ion)
Battery Charge Time	1hrs (80% charge by CHAdeMO charging station)

Significant examples of implemented technology