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HYUNDAI UNVEILS TUCSON IX HYDROGEN FUEL CELL ELECTRIC VEHICLE AT FUEL CELL & HYDROGEN ENERGY 2011



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Next-Generation Fuel Cell Vehicle to Deliver Higher Fuel Efficiency and Driving Range

WASHINGTON, Feb. 14, 2011 - Hyundai Motor America continues its commitment to fuel economy leadership and alternative fuel technology with the introduction of the next-generation hydrogen fuel cell vehicle, the Tucson ix Fuel Cell Electric Vehicle (FCEV). The Tucson ix FCEV makes its U.S. public debut at Fuel Cell & Hydrogen Energy 2011 in Washington, DC and will be on display Feb. 14-16.

"We are excited to share the latest in Hyundai's fuel cell technology," said Dr. Tae Won Lim, Managing Director of Hyundai Motor Company's Fuel Cell Vehicle Group. "After several years of testing, we have identified ways to maximize fuel efficiency without compromising driving experience and powertrain range. We hope to continue this momentum in finding ways to better fuel cell technology and performance."

Hyundai's third-generation FCEV is equipped with its newest 100-kilowatt fuel cell system and two hydrogen storage cylinders (700bar) to deliver a substantial improvement in fuel efficiency. The Tucson ix FCEV can travel more than 400 miles on a single fueling, a 76-percent improvement over its predecessor, and a range equal to a gasoline-powered car. It achieves gasoline equivalent fuel efficiency of more than 70 miles per gallon, a 15-percent improvement over the previous version. It can also start in temperatures as low as minus 25 degrees Celsius.

In addition to improving the fuel economy and range of the powertrain, Hyundai has also created a more compact power source for the Tucson ix FCEV. Overall volume of the fuel cell system was downsized by 20-percent compared to the previous system via modularization of bulky parts in the fuel cell system including fuel cell stack, balance of plant (BOP), inverter and high voltage junction box.

Hyundai will test about 50 new Tucson ix FCEVs throughout 2011 as part of the second phase of the Korean Government Validation Program. Hyundai plans to make a limited supply of the Tucson ix FCEV in 2012 and begin mass production in 2015.

Comparison of new Tucson ix FCEV (3rd generation) and Tucson FCEV (2nd generation)

CLASSIFICATION		Tucson ix FCEV	Tucson FCEV
SPECIFICATIONS	Fuel Cell Stack	100kW	100kW
	Drive System	100kW	100kW
	Energy Storage System	21kW	100kW
		(Battery)	(Super Capacitor)

PERFORMANCE	Hydrogen Storage System	700bar	350bar
		(Hydrogen : 5.6kg)	(Hydrogen : 3.5kg)
	Maximum Speed	100 mph	100 mph
	Gasoline Equivalent	72 mpg	63 mpg
	Fuel Efficiency		
	Max. Driving Distance per single refueling	403 mi	230 mi

“The Tucson ix FCEV shows that Hyundai is taking a multi-faceted approach to improving fuel economy, developing hydrogen fuel cell vehicles along with its patented Blue Drive technology,” said John Juriga, Powertrain Director at Hyundai Kia America Technical Center, Inc. “Hyundai is committed to developing a diverse portfolio of fuel efficient options for our customers, as seen with our Sonata Hybrid, turbocharged Gasoline Direct Injection (GDI) engine and the all-new 1.8-liter Nu engine delivering 40 mpg highway for the Elantra. The introduction of the new FCEV is just another example of all the things we’re doing to increase the ecological friendliness and the fuel economy of our products.”

HYUNDAI MOTOR AMERICA

Hyundai Motor America, headquartered in Fountain Valley, Calif., is a subsidiary of Hyundai Motor Co. of Korea. Hyundai vehicles are distributed throughout the United States by Hyundai Motor America and are sold and serviced through more than 800 dealerships nationwide. All Hyundai vehicles sold in the U.S. are covered by the Hyundai Assurance program, which includes the 5-year/60,000-mile fully transferable new vehicle warranty, Hyundai’s 10-year/100,000-mile powertrain warranty and 5-years of complimentary Roadside Assistance.

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