

Markaður fyrir "Fuel Cell" efnarafal

Hingað til hafa verið aðalega tveir hópar viðskiptavina:

- Ríki og sveitarfélög
- Vetnis hagsmunaaðliar

Ástæða innkaupa:

- Stuðningur við "ECO" ímynd, lækkun á kolefnisfótspori
- Uppfæra eldsneyti og þróa nýja tækni

"Fuel Cell" markaður er mjög háður eftirfarandi:

- Útbreiðslu vetnisstöðva
- Stuðningi stjórnvalda við minna mengandi orkugjafa











Fuel Cell Markaður

- Fram til þessa hafa eingöngu verið tveir aðilar á markaði í Evrópu, Toyta með Mirai og Hyundai með ix35 og svo Nexo
- Mercedes reiknar með að koma inná markaðinn með tengitvinbíl með Fuel Cell á þessu ári

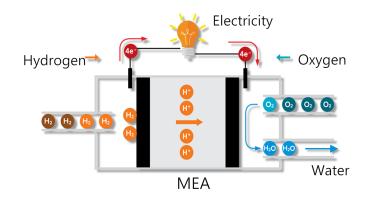
FCEV framboð

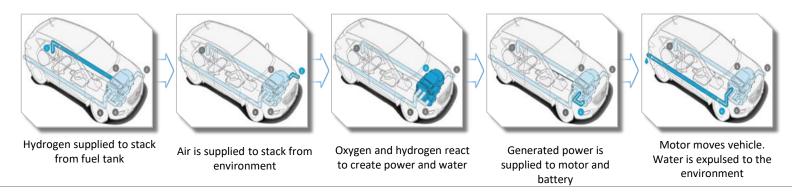




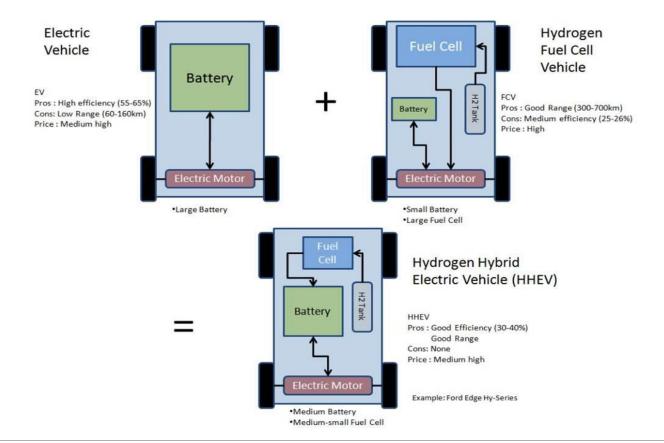
Fuel Cell vinnuferli

A Fuel Cell car is a EV whose electricity is generated on board by the Fuel Cell Stack





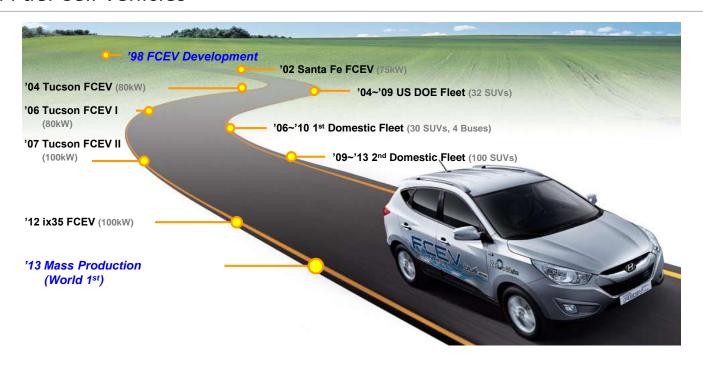
Rafbílar í samhengi við vetnisbíla og fuel cell







Pioneer in Fuel Cell Vehicles



ix35 Fuel Cell

Ground breaking powertrain with everyday usability





Nexo markmið



- Hyundai hefur verið leiðandi í fjöldaframleiðslu og Nexo undirstrikar þá stöðu í framboði á FCEV
- Nexo undirstrikar mikilvægi þess að sækja fram með nýja tækni og staðfestir hæfni Hyundai í þessum geira



Future Utility Vehicle

Future

Innovation, visualised

Horizon position light
Auto flush door handle, 12,3" screen
ECO Materials

Ultimate Eco Friendliness

Emission free (just water)
Air purification

Innovative

Remote parking Blind Spot View Monitor



Design



Powertrain & Technic



SmartSense

Utility

Brand new design, yet functional

Rear air intake, Sleek DLO

Hassle-free operation

Fuel charge in 5 min High range

Effortless driving

Lane following assist Smart Cruise Control



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Large Integrated Display (7' cluster + 12,3' AVN)



Bridge Type Console



ECO Materials

- Bio materials applied on 47 interior parts
- 12 kg CO2 reduction per unit





Vegan Leather



Bio Headliner (bamboo thread based fabric)



Bio Door trim (Sugar cane based TPO)



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Powertrain & Technic

Powertrain



Motor

142,5 kW system power (stack + battery)

Stack

-30° cold start (ix35 = -25°)

High durability (160,000 km / 10 years)

High hydrogen storage density 156,6L (ix35 = 140L)

Lightweight Construction



Alloy bumper beam



Plastic fender

Maximum Aerodynamics



Air curtain



D pillar air tunnel



Auto flush handle



Hidden rear wiper

Drag coefficient Cd = 0,329



Air Purification

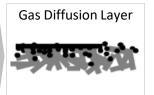
- Positive side effect from FCEV technology
- Purify 99,9% of particulate matters, fine dust and air pollutants















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Fuel Cell System



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SmartSense – Blind Spot View Monitor (BVM) + Blind Spot Monitoring (BSM)

- Eliminates blind spot by displaying full rear view area on instrument cluster
- Enhanced visibility under bad weather or dark condition
- BSM works as back up system for double protection against blind spot collisions











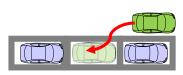




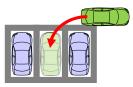
SmartSense – Remote Smart Parking Assist (RSPA)

• Especially designed for narrow parking spaces or drivers facing parking difficulties

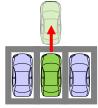




Parallel Parking



Right Angle Parking

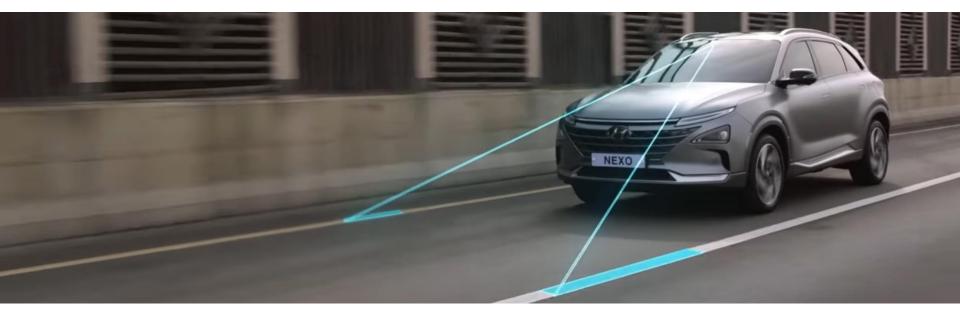


Remote Forward-Backward



SmartSense –Lane Following Assist (LFA)

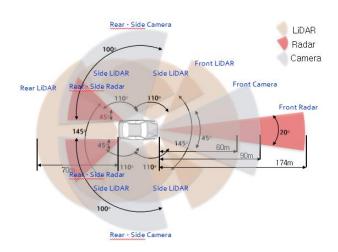
- Actively maintains the car in the lane center
- Operative from 0 to 150 km/h

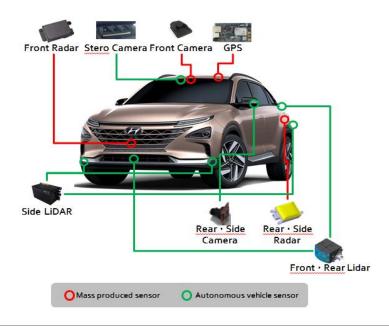




Hyundai Showcases World First Self-driven Fuel Cell Electric Vehicle

- Level 4 autonomous driving fuel cell electric vehicles self-drive 190 km from Seoul to Pyeongchang
- · NEXO fuel cell electric vehicle completes South-Korea's longest level 4 autonomous driving demonstration
- Hyundai to commercialize level 4 autonomous vehicles in smart cities by 2021
- Fully autonomous Hyundai vehicle to be available in the market by 2030







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Takk fyrir

