



27th IPHE Steering Committee Meeting

K O R E A

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2017 Energy R&D budget

	2016 Budget (Million / USD)	2017 Budget (Million / USD)	Rate of increase(%)
Technical R&D	\$ 549.6	\$ 554.28	0.8 %
Basic Research	\$ 95.52	\$ 116.63	3.1%
Total	\$ 645.18	\$ 670.59	3.9 %

H2 · Fuelcell R&D budget	2016 Budget (Million / USD)	2017 Budget (Million / USD)	Rate of increase(%)
Hydrogen	\$ 7.77	\$ 10.81	28.1 %
Fuel Cell	\$ 26.89	\$ 24.2	-11.1%
Total	\$ 34.66	\$ 35.01	1.0 %



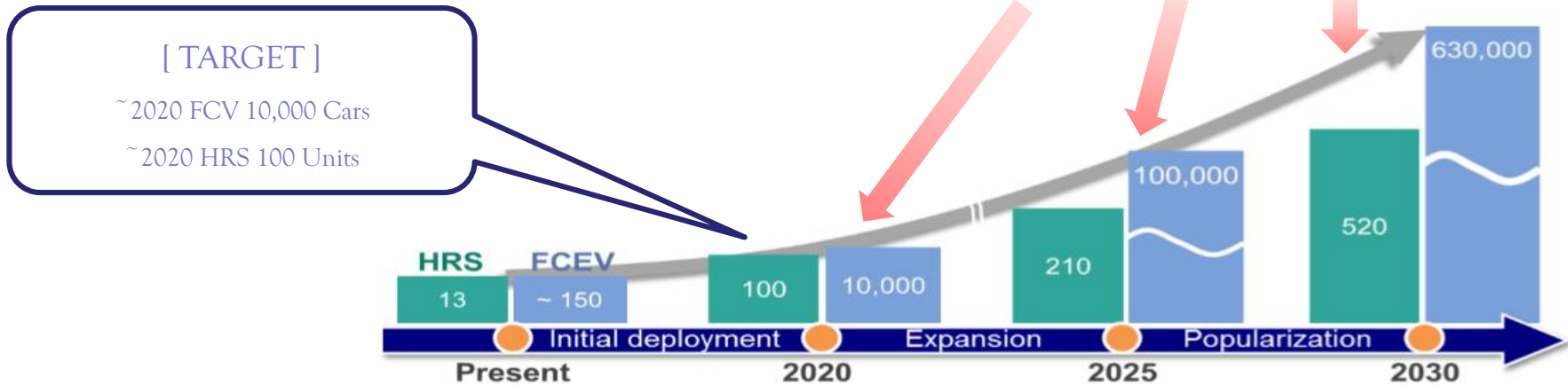
Policy : 2030 Fuel Cell Vehicle Plan

◆ 『2030, Fuel Cell Vehicle 10% Era』 (10% of new car sales, 0.18M/1.67M)

Vision (Strategy)	<ul style="list-style-type: none"> - Realization of Hydrogen-based economy - FCV is expected to become viable without financial support
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* (HRS : 1 unit, FCV : 1,000 units)

Target	Category	~'16	'17	'18	'19	'20	~'25	~'30	~'50
	FCV	Total: 0.2 New: (0.1)	0.5 (0.3)	3.0 (2.5)	6.0 (3.0)	10.0 (4.0)	100 (91)	630 (530)	7,000 (6,370)
HRS	Total: 13 New: (3)	25 (12)	50 (15)	75 (20)	100 (30)	210 (130)	520 (310)	1,500 (980)	





Promotion Strategies

(1) Deregulations for FCV & HRS

- Deregulation of FCV safety (MOLIT)
- Amendment of integrated complex hydrogen station (MOTIE)

(2) Private Sector Promotion

- FCV purchase subsidy
- Tax cut
- Reasonable hydrogen price setting

(3) Incentives

- City of Promotion program

(4) Core Technology R&D ⇒ Performance enhancement & price reduction

(5) Expansion of Refueling Station ⇒ Foundation for FCV Promotion



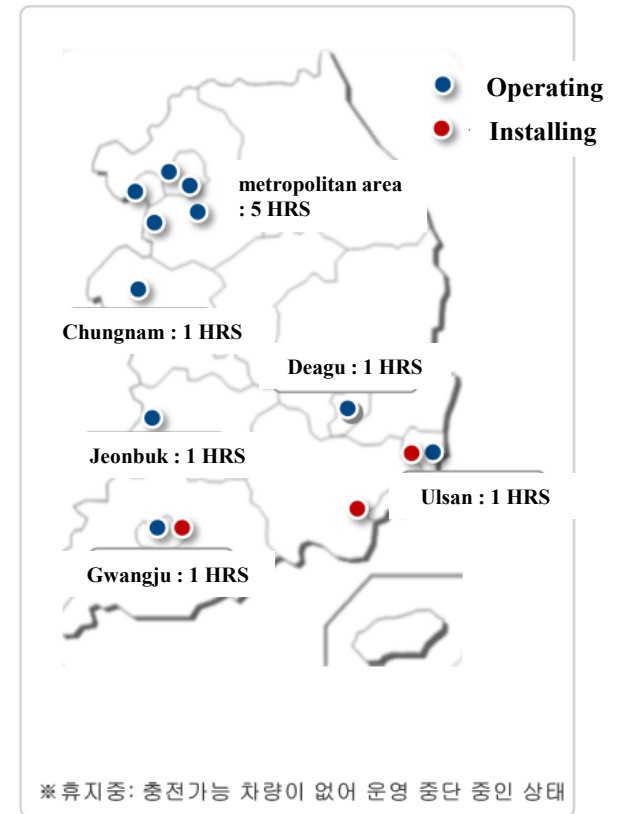
Domestic Hydrogen Refueling Stations(HRS) Status & Plan

Expansion of Refueling Station ⇒ Foundation for FCV Promotion

Hydrogen refueling station construction plan : ~20' 100 HRS , ~30' 520 HRS

- 10 stations operating in and around Petrochemical Complex and metropolitan area
- Infra. construction for hydrogen vehicle is expanding

Status	Supply Method	Area	Pressure (bar)	HRS Type
Operating	Off Site	Seoul	350	Tube Trailer
		Gyeonggi	700	Tube Trailer
		Gyeonggi	700	Tube Trailer
		Ulsan	700	Tube Trailer
		Gwangju	700	Tube Trailer
		Chungnam	700	Tube Trailer
	On Site	Seoul	350	Reforming
		Incheon	350	Reforming
		Deagu	700	Electrolysis
		Jeonbuk	700	Electrolysis
Installing	Off Site	Gwangju	700	Tube Trailer
		Ulsan	700	Tube Trailer
		Changwon	700	Tube Trailer
Stop	Off Site	Gyeonggi	700	Tube Trailer
		Ulsan	350	Tube Trailer
		Yeosu	350	Pipeline
	On Site	Jeju	350	electrolysis





New Activities

◆ FCV Taxi (Ulsan)

- The Demonstration project of FCV Taxi has signed MOU with MOTIE, City of Ulsan, Hyundai Motors and Taxi company(Ulsan).
- Target (Supply of FCVs) : '16 FCV 10 cars, '17 FCV 5 cars

FCV Taxi

Ceremony



FCV (Hyundai Tucson ix35) Taxi , Ulsan





New Activities

◆ FCV Car sharing (Gwangju)

The Demonstration project of FCV car sharing is promoted by city of Gwangju

- Carsharing Project: Tucson ix(ix35) FCV 15 Cars, EV 27 Cars has been supplied.
- Vehicle is expanding until 2020 (FCV and EV 300 Cars)

FCV Carsharing

Hyundai Tucson ix(ix35) Fuel Cell Vehicle



Ceremony of FCV Carsharing Project





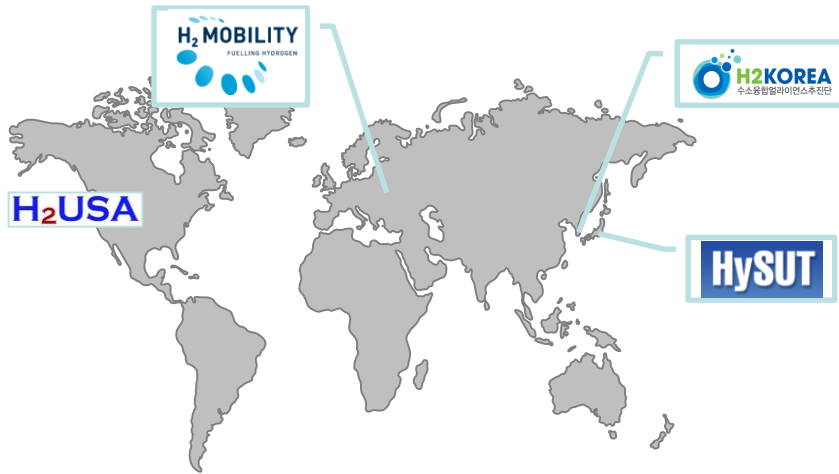
New Activities

◆ *Mission Innovation*

- The expansion of renewable energy
- New & renewable energy supply expansion (2017':178 million USD)
- Promotion of greenhouse gases reduction
- Fuel cell R&D
 - (1)Hydrogen infrastructure,
 - (2)Super-high-efficiency fuel cell,
 - (3)Large energy storage (hydrogen storage)
- Global R&D collaboration



Hydrgen Alliance : H2KOREA



【 Members 】

Government	10	Industry	20
Research	4	Association	4
Academy	1	Total	42

【 MISSION 】

- Public-Private Partnership

【 GOALS 】

- Deploying FCEVs across in South Korea
- Accelerating commercialization of hydrogen technologies





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Thank You.

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