



International Partnership  
for Hydrogen and Fuel Cells  
in the Economy

## *Republic of Korea* Update

36<sup>th</sup> IPHE Steering Committee Meeting  
17 – 18 November 2021  
Virtual Meeting

# Announcements / New Initiatives *Republic of Korea*

## • Investments/Funding/Policies/Initiatives

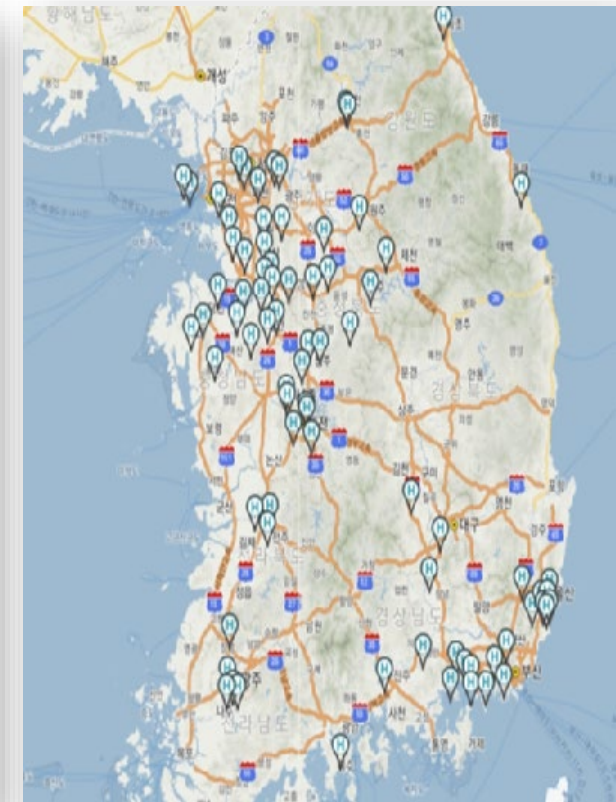
- ***Hydrogen Leading Country Vision*** declared by President (October)
  - **Supply:** Infrastructure for green, blue H<sub>2</sub>; Clean H<sub>2</sub> importation public-private project
  - **Transportation:** NH<sub>3</sub>/LH<sub>2</sub>-propelled ship development, H<sub>2</sub> seaports, Pipelines, Liquefaction plants
  - **Usage:** Mobility application to buses, construction equipment, trams, etc.; Co-firing of NH<sub>3</sub>+coal / H<sub>2</sub>-natural gas; Industrial use as fuel and feedstock
- ***Master Plan for Hydrogen Economy Implementation*** to be released (November)
  - By Prime Minister in 4<sup>th</sup> Hydrogen Economy Committee
- ***Launch of Korea H2 Business Summit*** of 15 private companies (September)
  - Co-chaired by Hyundai Motors, SK, POSCO; Samsung, Lotte as members

# Announcements / New Initiatives *Republic of Korea*

- **New Research & Development, Demonstration and/or Deployment Activities**
  - Mobile app for real-time refueling station information (October)

- **Key Collaborations**

- *Clean Hydrogen Trade Initiative* seminar at COP26 (Nov.)
- Korea is to further discuss with interested countries and international organizations how to cooperate over the global clean hydrogen supply chain



# Republic of Korea – November 2021

## Status of Deployments (as of August)

- ✓ Stationary FC: **688MW**
- ✓ FCEV: **16,098**
- ✓ FC Bus: **108**
- ✓ HRS: **112**

## Leading Government Initiatives

Hydrogen Leading Country Vision (Oct. '21) & Hydrogen Economy Roadmap of Korea (Jan. '19) backed by Hydrogen Economy Promotion and Hydrogen Safety Management Law (Feb. '20)

## Deployment Goals

	2030	2050
FCEV Production	0.88 million	5.26 million
HRS	310	2,000+
H <sub>2</sub> Power Generation	48TWh (7.84%)	288TWh (23.8%)
H <sub>2</sub> Supply	3.9MMt	27.9MMt

## Goals or Focus Areas

- Clean H<sub>2</sub> production RD&D
- Strengthening Hydrogen ecosystem competitiveness
- Expansion of infrastructure by easing regulatory barriers
- Establishment of safety management system

## Funding

- **2020: 2.6T KRW (2.16B USD)**
  - Passenger cars: 2.3T KRW
  - HRS: 95.1B KRW

# Thank you



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