



IPHE Country Update September 2023: Republic of Korea

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Covered Period	April 2023 – September 2023

1. New Initiatives, Programs, and Policies on Hydrogen and Fuel Cells

- (April 2023) Main results of policy research (commissioned by MOTIE) on **Clean Hydrogen Certification Mechanism** were released. The researchers proposed, with the accounting methodologies for various production pathways, that GHG emissions in producing clean hydrogen (well-to-gate) would be less than 4 kgCO₂eq/kgH₂. Transportation, including international shipping, emissions are not included in the mechanism for the time being. MOTIE and experts has so far been working on the detail. The mechanism will operational in January 2024.
- (August 2023) The first batch of general hydrogen power generation according to **Clean Hydrogen Portfolio Standard (CHPS)** was auctioned off. Its total amount was 715 GWh, a half of annual quota (1.3 TWh), and awarded to 5 fuel cell power generation businesses. Prices were lower than they might have been under the old scheme and much distributed power near demand centers was included, as intended. Winners of the other half of the general hydrogen section will be called in November. Auction for the clean hydrogen section (3.5 TWh) is due in the first quarter of 2024, along with the general (1.3 TWh) section.

2. Hydrogen and Fuel Cell R&D Update

3. Demonstration, Deployments, and Workforce Developments Update

- (June 2023) City of Seoul announced its plan to deploy **1,300 FC buses** by 2026, first replacing airport-route buses running on diesel.
- (April 2023) City of Incheon (130 units) and other cities/provinces received grant for purchase of **400 FC buses** in total from MOTIE.
- (September 2023) First **HRS for construction/industrial equipment** began operation. MOTIE embarked on deregulation process for similar stations for heavy equipment.



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4. Events and Solicitations

5. Investments: Government and Collaborative Hydrogen and Fuel Cell Funding

6. Regulations, Codes & Standards, and Safety Update