



IPHE Country Update Jun 2025 – Sep 2025:

Republic of Korea

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

- * (Sep 2025) Ministry of Trade, Industry and Energy (MOTIE) held meetings of the **consultative group for mobility hydrogen supply** to review supply status in response to increased hydrogen vehicle demand. The group is composed of relevant ministries, local governments, producers and suppliers, HRS businesses, etc. By August 2025, mobility hydrogen consumption reached 9,298 tons up 70% year-on-year. Hydrogen supply capacity for the rest of the year is expected to stable at around 11,000 tons compared to estimated demand of 8,800 tons.
- * (Aug 2025) The result of general hydrogen power generation bidding market was commenced. In this bidding market, 77 projects participated with their bids amounting to 3,137GWh. For this year, a total of 1,355 GWh was awarded to 52 projects. The result showed a continued effect of cost reduction through competition and the promotion of distributed power generation, showing the following three points: 1) The average winning price declined compared to last year, continuing the downward trend since the introduction of the general hydrogen power bidding market in 2023, 2) All awarded projects are under 20 MW, with 88% located in high-demand metropolitan areas, reflecting local distributed generation, 3) Generation technologies diversified from 2 to 5 types, indicating expanded competition among technologies.

2. Hydrogen and Fuel Cell R&D Update

- * (Aug 2025) The Ministry of Science and ICT (MSIT) launched two joint research programs that support R&D projects with overseas institutions in electrolyzer[†] and carbon capture and utilization (CCU)[‡] areas for 5 years ('25-'29). The selected projects under this program will be joined by 29 institutions from 12 countries, including the Argonne National Laboratory (USA DOE), Waseda University (Japan), and Brandenburg University of Technology (Germany).

[†] H2GATHER (26 mil USD): Anion Exchange Membrane Water Electrolyzer (AEMWE) and Solid Oxide Electrolyzer Cell (SOEC)

[‡] Global C.L.E.A.N (28.6 mil USD): CCU Large-Scale Emission-reduction Associative Network



3. Demonstration, Deployments, and Workforce Developments Update

4. Events and Solicitations

- * (Sep 2025) The 4th Clean Hydrogen Trade Initiative Forum was held to discuss the creation of the clean hydrogen market and promotion of trade hosted by MOTIE and organized by Korea Hydrogen Alliance (H2Korea). Approximately 250 participants were joined by notable speakers from S&P Global, OECD, JOGMEC, Europe H2 global, GH2 India, Korea Energy Economics Institute, etc. Participants shared the status of the hydrogen market and key national policies and jointly discussed ways to promote clean hydrogen trade.
- * (Dec 2025) World Hydrogen Expo 2025 (WHE 2025) is due to be held 4-7 of December in Goyang, a suburb of Seoul. The event is composed of conference and exhibition part and the latter is named H2MEET 2025 which has been the name of the event until last year. WHE 2025 will be held in parallel with Hydrogen Council Summit 2025. Various events also scheduled before WHE 2025 such as Clean Hydrogen Supply Chain Innovation Technology Forum (Dec 2nd), 6th Korea-Germany Hydrogen Conference (Dec 3rd), etc.

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

6. Regulations, Codes & Standards, and Safety Update