

41st IPHE Steering Committee Meeting 19 - 20 March 2024 New Delhi, India



## Announcements / New Initiatives Republic of Korea



#### Investments/Funding/Policies/Initiatives

- 1. Clean Hydrogen Certification Mechanism launched (January 2024)
  - Proposed threshold: ≤ 4kgCO<sub>2</sub>eq/kgH<sub>2</sub> (well-to-gate)
    - Emissions from transportation (international shipping), ammonia processing, etc.: not counted
  - 4 classes of clean hydrogen (kgCO<sub>2</sub>eq/kgH<sub>2</sub>): **0~0.1 / 0.1~1 / 1~2/ 2~4**
  - Eligible pathways: those that contribute to meeting the national GHG reduction target
  - Preliminary review consulting & exemplary certification (this year), issuing of certificates (2027)
- Second year of Clean Hydrogen Portfolio Standard (2H 2024)
  - Launch of Clean hydrogen section (3.5 TWh) and third round of General hydrogen section (1.3 TWh)
  - Eligibility for the clean section: generators with clean hydrogen supply contracts
    - Including contracts with results from preliminary review consulting





















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#### New Research & Development, Demonstration and/or Deployment Activities

- 1. Deployment of Commercial FCEVs (December 2023)
  - Targets: 21,200 FC busses, 280 liquid hydrogen refueling pumps by 2030
  - Support for purchase (forklifts, garbage trucks), FC replacement, etc.
- 2. Hydrogen Storage/Transport Industry Cluster in Gangwon State (December 2023)
  - Government funding of 240 million USD in total (5 years starting from 2024)
  - Establishing infrastructure for testing labs, demonstration projects, etc. of storage and transport
- 3. First Hydrogen Liquefaction Plant (January 2024)
  - 5ton/day capacity to supply nearby research labs, companies and HRS
  - Joint investment (72 million USD) by Doosan Enerbility, Province of Kyoungnam, City of Changwon

















### Republic of Korea – Profile December 2023



## Status of Deployments (Dec. 2023)

✓ Stationary FC: 1,057MW

✓ FCEV: **34,258** 

✓ FC Bus: **651** 

✓ HRS: 286

#### **Leading Government Initiatives**

3-Up\* policy package

\* Scale-up, Build-up, Level-up backed by

Hydrogen Economy Promotion and Hydrogen Safety Management Law (Feb. '20)

#### **Deployment Goals**



#### **Goals or Focus Areas**

- Huge demand creation
- Demand-based distribution infrastructure
- Clean hydrogen supply chain establishment
- Institutional foundation for hydrogen market

#### **Funding**

- Mobility subsidy budget:
  620.9B KRW (473M USD)
- Hydrogen, FC R&D budget:
  120.1B KRW (91M USD)

















# Thank you



International Partnership for Hydrogen and Fuel Cells in the Economy