

“ Happy Citizens · Clean Environment · New Growth Industry ”
Incheon Hydrogen Ecosystem Strategy



목차

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Incheon Hydrogen-Ecosystem

With excellent production base as well as sufficient demand, Incheon can lead the Hydrogen Growth of Korea.

Transition to the Green Hydrogen Energy means,

Main Energy Corporations


한국남동발전
KOREA ENERGY


KOMIPO
한국중부발전


한국서부발전 | 주
KOREA WESTERN POWER CO., Ltd.


인천석유화학

인천에너지

E&S

Anchor Corporations


Incheon Airport

한국가스공사
KOREA GAS CORPORATION


인천항만공사
INCHEON PORT AUTHORITY


삼천리

인천도시가스(주)


Innovation Resources


연세대학교
YONSEI UNIVERSITY


인하대학교
INHA UNIVERSITY


인천연구원
THE INCHEON INSTITUTE


IEI
Incheon Economic Institute


인천대학교
INCHEON NATIONAL UNIVERSITY


ITP
INCHEON TECHNOPARK

- Opportunity to create a sustainable environment and economy

- Starting point to ensure the survival of future generations

- Incheon's bold investment and commitment towards the hydrogen ecosystem

Vision and Strategy

Creating a Sustainable Future City

With **Happy Citizens · Clean Environment · New Growth Industry**

Incheon aims to be a Carbon-neutral City with the Green Hydrogen Energy

Establishment of
a virtuous cycle
value chain

Creating future
growth engines
with Hydrogen

The Hydrogen Ecosystem
in Everyday life

Strategy 01

Building a Hydrogen
Generation Cluster

Strategy 02

Expanding Green
Hydrogen Mobility

Strategy 03

Power System
changed to Distributed
Blue-Hydrogen

Main Strategy

Strategy 01

Hydrogen generation cluster

- Early entry into the Hydrogen Economy by establishing Quick · Mass Supplying System

Building the Foundation for Hydrogen Generation

STEP 1

Hydrogen Generation (From 2023)

Location SK Incheon

Volume 30,000 tons per year

Establishing a Hydrogen Industry Support system

STEP 2

Integrated Complex for Corporations

Location Cheongna, Seo-gu District

Roles
· Support for producing domestic equipment,
· Nurturing professionals



✓ *Achievement of Incheon Green New Deal*

(fossil fuel → Hydrogen Energy)

✓ *Becoming a Leader in Green Industry*

Main Strategy

Strategy 01

Incheon Hydrogen Economy Hub



Main Strategy

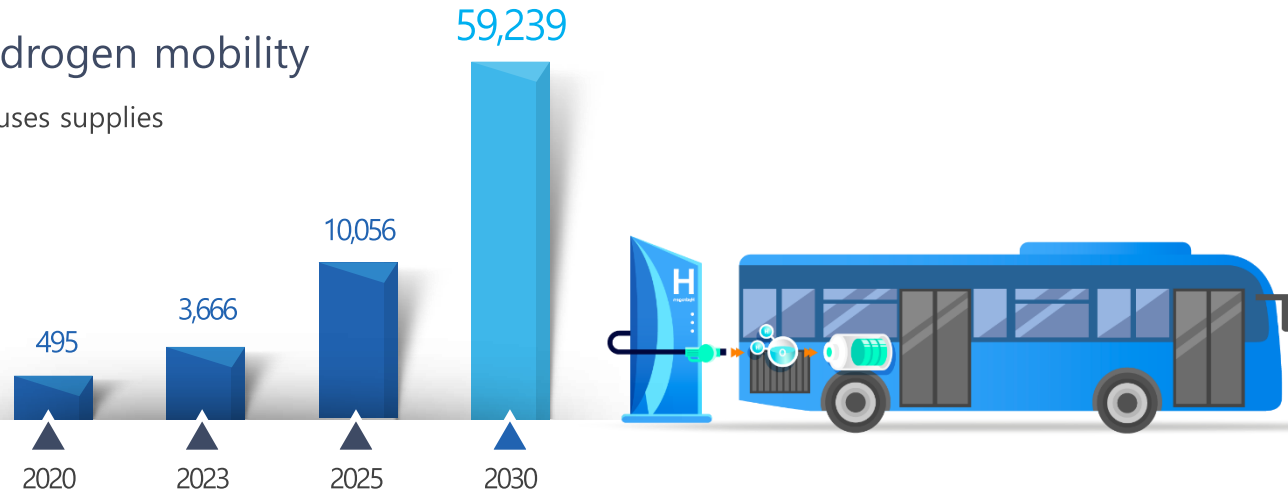
Strategy 02

Supplying of eco-friendly hydrogen mobility – Accelerating the energy transition in transportation

Goal 59,239 units by 2030 (Car 57,488, Bus 1,751)

▶ Supplying hydrogen mobility

*Number of cars, buses supplies



City Bus

- ✓ All City Buses (2,204) in Incheon will be converted to hydrogen buses by 2030.

Automobile

- ✓ More than 80% of new vehicles will be purchased as hydrogen cars

Forklifts etc.

- ✓ Introducing Korea's first hydrogen truck

Hydrogen Station

- ✓ 42 Station by 2030
- ✓ Reachable in 20 minutes

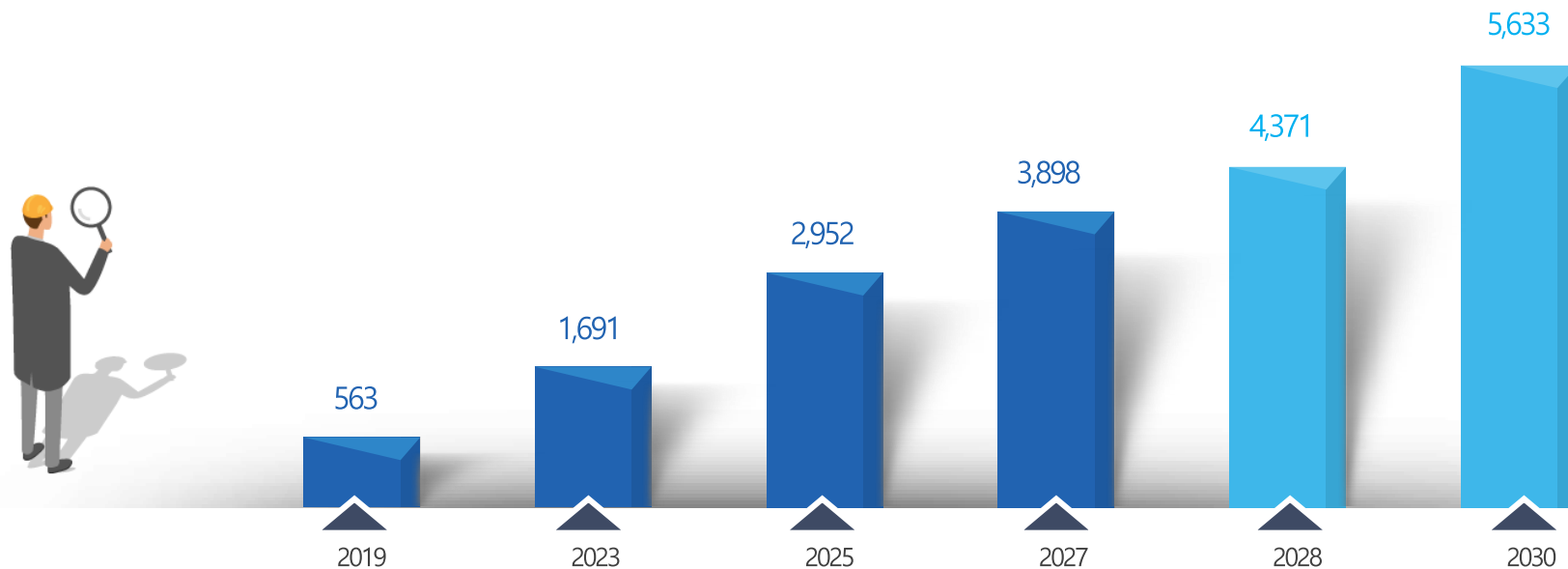
Main Strategy

Strategy 03

Establishing Dispersed generation of Blue H₂
– Preparing for the early closure of Coal-fired power plants

Goal Fuel cell power plant 606MW (Industrial Complex etc.)

Fuel Cell Energy
Production(GWh) 

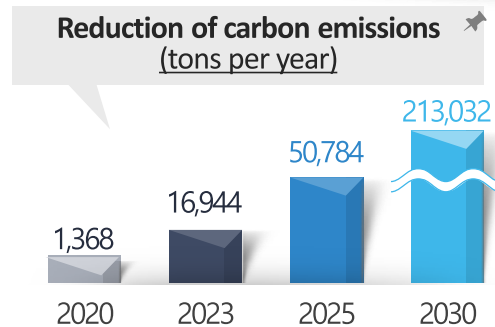


Value of Incheon Hydrogen Economy

Value 1

Constructing a Desirable City with Clean air

“
Reducing carbon emissions by **213,032 tons a year**
Same effect as planting 32 million pine trees”



Value 2

Sustainable Growth of regional economy



Effect of job creation in Hydrogen field
9,839 (people)



Production inducement effect
17.165 billion(\$)



Value-added inducement effect
5.46 billion(\$)

Value 3

Promoting City Brand Globally as a 'Hydrogen City'

“
As a mecca for the global hydrogen industry,
Leading climate change-response and carbon neutrality,
'We will create Incheon Brand Value'”



Thank you

