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**Strategy to Respond to Climate Crisis  
& Realize Carbon Neutrality  
in Incheon Metropolitan City  
Republics of Korea**



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# Incheon Metropolitan City

<b>Population</b>	<b>2,981,553</b> (2023) 5.7% out of the national population
<b>Area</b>	<b>1,067km<sup>2</sup></b>
<b>Population Density</b>	<b>2,795 person/km<sup>2</sup></b> (Korea 515 person/km <sup>2</sup> )
<b>GRDP</b>	<b>US\$ 66,9 billion</b>

- ❖ Capital area where population and industry are concentrated
  - Industrial Complex, Commercial Core, Public Transport, etc.
- ❖ Marine City
  - One of the top 5 tideland in the world
- ❖ Logistics Hub with Airport and Harbor
  - Incheon International Airport / Incheon Port
- ❖ Global City
  - Incheon Free Economic Zone
  - Major UN organization, Inter-government organization located in
  - Green Climate Fund, ESCAP-ENEA Office, etc.



# Incheon's pledge to achieve Carbon Neutrality in 2045

## 2<sup>nd</sup> INTERNATIONAL FORUM ON LOW CARBON CITIES

Incheon's pledge to achieve carbon neutrality by 2045

6-8 December 2022 (Hybrid)  
Sheraton Grand, Incheon, Republic of Korea



# Vision and Goal of Incheon's Carbon Neutral Strategy

<b>Vision</b>	<b>Declaration of 1.5°C Global Leading City in Carbon Neutrality, Incheon</b>
<b>Goal</b>	<b>Reduce Carbon by 40.1% in 2030 (compared to 2018) Carbon Neutrality in 2045</b>

## 4+1 Targets of Strategies

### ◆ Creating Carbon Economic Ecosystem

- Accelerating the conversion of new and renewable energy
- Enlargement of Energy-Self-Standing building
- Expanding of eco-friendly means of transportation

### ◆ Expanding Customized Citizens' Climate Action

- Cooperation in governance among carbon neutral actors
- Strengthen climate education for future generations
- Support the expanding of citizens' green action movement

### ◆ Vitalization of the Global Cooperation

- Creating an international climate cluster
- Establishment of leadership in international development cooperation
- Building a global network

### ◆ Strengthening Adaptation Capacity to Climate Crisis

- Expanding of carbon absorption capacity
- Realization of a Just Transition in response to climate change
- Expanding of customized welfare for climate change

### ◎ Implementation System Support System

- Legal system : Ordinance, Carbon budget system
- Governance : Public-Private-Industry cooperation
- Financial resources : Climate Crisis Response Fund

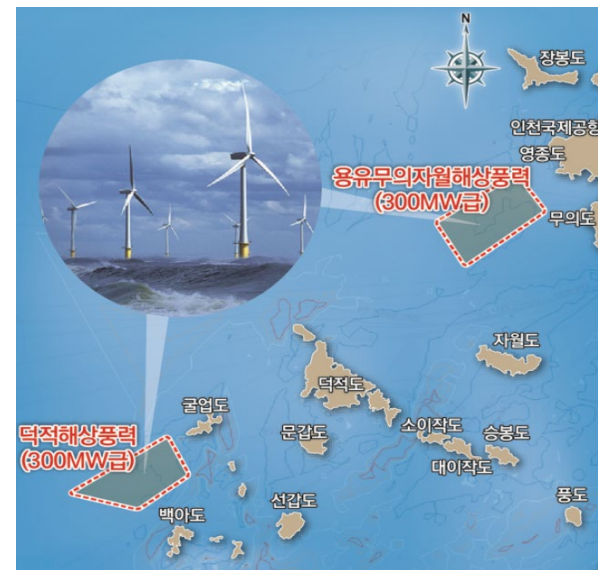
# 1. Increasing Supply of Renewable Energy

## ❖ Increase in the share of renewable energy generation

- Target by 2030 from 22% to 35.7%
- Main Sources : Off-shore Wind Power, Solar Power, etc.

## ❖ Incheon-type Offshore Wind Power Generation Project

- Introduction of large-scale Offshore wind plant
- Reduce environment damage, improve Safety, and create emerging industry

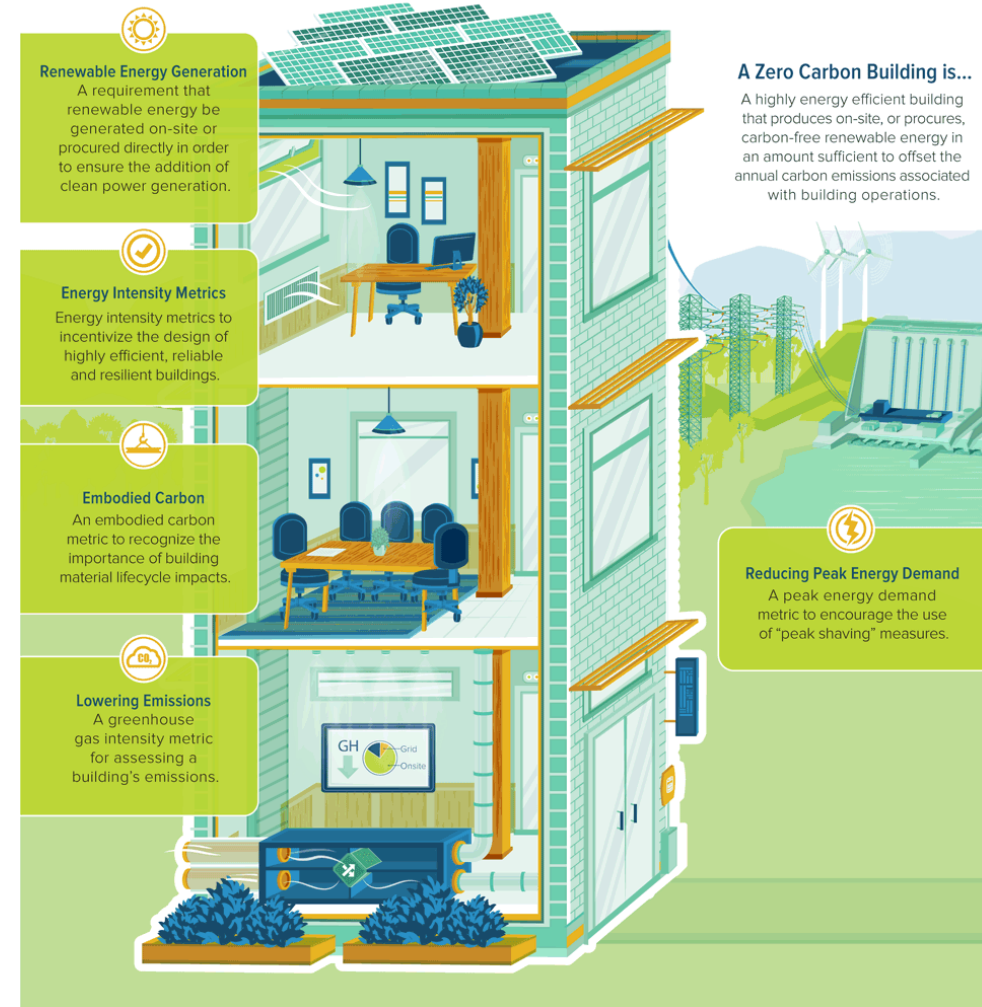




## 2. Expanding Self-Sufficient Building

- ❖ Optimizing energy use by distributing high-efficiency devices and building energy management systems
- ❖ Expanding of Green Remodeling of existing building
  - Improving the residential environment of old houses and increasing the energy efficiency of buildings
- ❖ Application of zero energy mandatory regulations for new building
- ❖ Supplying mini(small scale) Solar Power for households

Five Key Components of Zero Carbon Buildings



## 3. Vitalization of the Global Cooperation

### ❖ International Organization Office located in Incheon



### ❖ Hosting of International Conference

- 56<sup>th</sup> ADB Annual Meeting
  - Period : 2 May ~ 5 May 2023
  - Venue : Songdo Convensia
  - Attendees: Government representatives, ADB's Board of Directors, etc.
  
- 2023 UNFCCC Adaptation Week
  - Period : 28 Aug. ~ 1 Sep. 2023
  - Venue : Songdo Convensia
  - Attendees: Government representatives and experts



# 4. Capacity Building / Raising Awareness

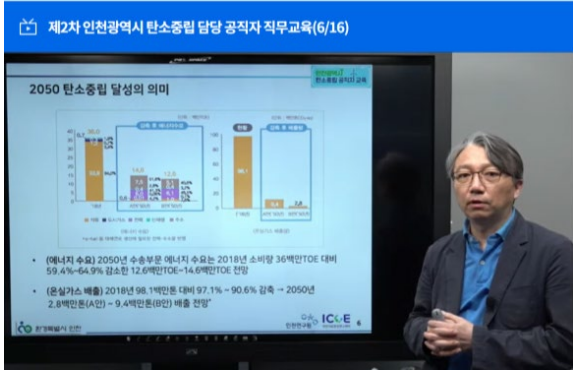
## ❖ Public Education on Climate Crisis & Response

- Climate academy / Campaign
- Forum & Committee for citizens and stakeholders
  - Businesses, students, NGOs, citizens, etc.



## ❖ Capacity building for Public Officials

- Sharing of general knowledge and information on Carbon Neutrality
- Providing specialized training for each field of the officials in charge
  - Sector : Energy, Transport, Building, Carbon Sink, etc.





# GHG & Energy Target Management System in Public Sector

- ❖ To induce the leading role of national policy by reducing GHG emissions in the public sector
- ❖ Local governments and public organizations set targets for reducing GHG and checks its performance in every year
- ❖ Incheon City ranked 1st among metropolitan governments for more than 5 years

<b>Improving Facilities</b>	Installing renewable power generation Replacing high-efficiency LED lighting device
<b>Behavioral Change/ Awareness</b>	compliance with air conditioning temperature Prohibition of disposable items in city hall



# GHG & Energy Target Management System in Public Sector

⇒ Spread to the Private Sector

- ❖ To aims to induce voluntary and active participation of citizens and the private sector by leading public efforts to reduce Greenhouse Gas emissions.

