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

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<tr>
<th>Population</th>
<th>2,981,553 (2023) 5.7% out of the national population</th>
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<td>Area</td>
<td>1,067㎢</td>
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<td>Population Density</td>
<td>2,795 person/㎢ (Korea 515 person/㎢)</td>
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<td>GRDP</td>
<td>US$ 66,9 billion</td>
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- **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
## Vision and Goal of Incheon’s Carbon Neutral Strategy

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<tr>
<th>Vision</th>
<th>Declaration of 1.5°C Global Leading City in Carbon Neutrality, Incheon</th>
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<td>Goal</td>
<td>Reduce Carbon by 40.1% in 2030 (compared to 2018) Carbon Neutrality in 2045</td>
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### 4+1 Targets of Strategies

1. **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

2. **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

3. **Vitalization of the Global Cooperation**
   - Creating an international climate cluster
   - Establishment of leadership in international development cooperation
   - Building a global network

4. **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

5. **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
3. Vitalization of the Global Cooperation

- International Organization Office located in Incheon

- Hosting of International Conference
  - 56th 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

| Improving Facilities          | Installing renewable power generation  
|                              | Replacing high-efficiency LED lighting device |
| Behavioral Change/Awareness  | 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.