INCHEON

"Heatwave Action Policy"

is a #ResilienceHub!
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Heatwave Status and Prospects

- The Republic of Korea
  - The temperature has increased by 0.1°C above the global average from the pre-industrialization era
  - The CO2 growth rate and concentration level is also exceeding the global average

- Incheon Metropolitan City
  - The average summer temperature in Incheon, from June to August, has increased by 0.6°C over the past 10 years (2013-2022), rising from 23.8°C (averaged from 1998 to 2021) to the current 24.4°C.

Heatwave Emergency Response System

- Operation of Heatwave Countermeasure Period (May 20th ~ Sep 30th)
- Establishment of Situation Management and Response System
  - TF operation with related departments, districts for rapid reporting and response
  - Operation of emergency response system based on crisis stage when heatwave warning occurs by Disaster and Safety Countermeasures Headquarters of Incheon Metropolitan City
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Heatwave Prevention Facilities

- **Installation of 2,185 Heatwave Reduction Facilities**
  - 1,821 shade screens, 40 shade tree shelters, 99 cool roofs, 73 cooling fogs, 101 air blowers at the bus stations, 51 Cold and hot chair, etc.
  - 26 Water sprinkler trucks to reduce road heat
  - Expansion and installation efforts are focused on locations with a large floating population and high utilization

- **Expansion of 1,324 Heatwave Shelters (‘22 : 1,096)**
  - 984 indoor heatwave shelters: 703 senior citizen centers, 134 community centers, 105 financial institutions, 8 social welfare centers, 34 community evacuation facility, etc.
  - 340 outdoor heatwave shelters: parks, pavilion shelters, tree shades, and shelters under the bridges
  - Provide information on the location of heatwave shelters through safety apps, etc.
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Big Data Analysis for Vulnerable Areas

- Analyzing big data to prepare countermeasures for heatwaves
  - Integrated data of weather satellite images, density of old buildings, aging index, elderly population, individual housing prices, heat shelters, single elderly households, etc.

- Selection of heatwave vulnerability priority management area through big data analysis (52 areas)
  - Addressing the needs of vulnerable areas to support heat wave prevention activities
    - Replace insect screens at home and provide items to ease the impact of heat
    - Focused heatwave measures on elderly people living alone

Heat-safe Temporary Accommodation

- The elderly aged 65 or older and low-income families without air condition facilities use the designated accommodations
  - Operated when the minimum temperature reaches 25 °C or higher

- Performance: 75 cases (2022), 126 cases (2023)
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Comprehensive Risk Information Strategy

- **Management of workplaces and vulnerable areas**
  - Promotion of measures to prevent heat stroke at workplaces:
    - Distribution of the Self-diagnosis table for outdoor workers
  - Customized care service of IoT security phone for the vulnerable elderly people living alone

- **Promotion to prevent heat waves**
  - City informs of the overall situation and the appropriate prevention measures through local and village broadcasting, social media, disaster message boards
  - Operation of Smart disaster information management system for monitoring all disasters such as heatwave
  - Dissemination of heatwave prevention measures to citizens through a disaster text message system

Self-diagnosis table and IoT security phone

Incheon Disaster and Safety Situation Room
Thank you

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