松本市・ソルトレイクシティ姉妹都市 65周年
Matsumoto-Salt Lake City Sister Cities
65th Anniversary

Mayoral Panel
on Climate Change

市長パネル
気候変動について
Overview of Matsumoto City

<table>
<thead>
<tr>
<th>Population</th>
<th>235,948</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land area</td>
<td>978.47km²</td>
</tr>
</tbody>
</table>

(As of June 2023)
**Current Situation in Matsumoto**

- **Annual Mean Temperature Anomaly (straight line approximation)**
  - **Matsumoto City**
    - 2.01°C rise in 100 years
- **World**
  - 0.72°C rise
- **Japan**
  - 2.6°C rise

**Ski fields lacking snow**
**Poor quality apples due to high temperatures**

Approx. 3 times that of the world
Progress So Far

- Aim to Realize the Achievement of a 2050 Zero Carbon City announced. (December 2020)
- “Matsumoto City Zero Carbon Realization Ordinance” enacted. (June 2022)
- “Matsumoto Zero Carbon Achievement Plan” developed. (August 2022)

<Greenhouse Gas Emissions>

- 2013年: 1.86 million tons
- 2020年: 1.44 million tons (22% reduction in comparison to 2013)
- 2030年: 910,000 tons
- 2050年: 0 tons (100% reduction)

【Goal】
- 51% reduction
- 100% reduction
Challenges

① Promoting the introduction of *renewable energy*

② Accelerated reduction of greenhouse gases

③ Development of leaders to drive decarbonization
Leading Decarbonization Area

► Aim to achieve carbon neutrality for electricity demand in this region ahead of schedule, by 2030.
► Aim to create a sustainable world-class mountain resort.

Norikura Highlands

① Promoting the introduction of renewable energy
② Accelerated reduction of greenhouse gases
Installing Small Hydroelectric Generation Facilities

Energy Conservation at Tourism Center

Promoting the Use of Woody Biomass for Heat

Leading Project

1. Promoting the introduction of renewable energy
2. Accelerated reduction of greenhouse gases

General image of small hydroelectric generation facilities

General image of tourism center

Promoting the introduction of wood-burning heaters and wood-fired boilers to each household and accommodation facilities

Poorly managed Ichinose Meadow

Develop as a local business
【Three Elements for Achieving a Decarbonized Society】

1. Promoting active use of diverse renewable energy
2. Proactive introduction of energy-conserving equipment, etc.
3. Maximizing Introduction of Main Sources of Renewable Energy

Leading Decarbonization Area

Small Hydroelectric Generation
Energy Conservation at Tourism Center
Promoting the Use of Woody Biomass for Heat

Leading Project

① Promoting to introduce renewable energy
② Accelerate to reduce greenhouse gas

To the Entire Matsumoto Region
Mayoral Panel on Climate Change

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Salt Lake City Climate Goals | Joint Resolution

• 100% Renewable Energy for Community Electricity Supply by 2030

• 80% Reduction in Community Greenhouse Gas Emissions by 2040
Community Renewable Energy Program

- 2019 State legislation allows eligible local governments to procure net-100% renewable electricity by 2030 on behalf of their residents and businesses.
- Expect to submit program to state regulators later this year.

- Goals
  - A default net-100% renewable electricity option
  - Affordability
  - Inject a significant amount of new renewable energy into our electric grid
  - Protect low-income customers
  - Combine the interest of communities across Utah to multiply our impact
Elektron Solar Groundbreaking

Along with 5 other large energy users, Salt Lake City worked with Rocky Mountain Power, and developers D.E. Shaw and Enyo Renewable Energy to begin construction on an 80 MW solar farm in Tooele County.

It will meet nearly 100% of SLC’s municipal electricity consumption when it comes online ~2024.
Other Programs

- All-electric and Net Zero standards for City buildings:
  - Internal buildings
  - RDA's new Sustainability Policy

- Commercial Property Assessed Clean Energy (C-PACE)

- Electric Vehicles

- Energy Benchmarking Program
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Matsumoto’s climate action plans
https://www.city.matsumoto.nagano.jp/soshiki/51/4412.html/

Salt Lake City’s climate action plans
https://www.slcl.gov/sustainability/climate-positive

See this full presentation & more:
https://wilkescenter.utah.edu/events/sister-cities-panel
Natural Monuments of Japan

Habitat Loss for Japanese Rock Ptarmigan

Predicted resultant potential habitat area of Japanese Rock Ptarmigan in the central and southern areas of the Northern Alps

Symbolic Bird of Nagano Prefecture

Reference: Nagano Prefecture Climate Change Impacts and Policy Adaptation
Anticipated Impacts

Increase in Sediment-related Disasters

[Increase in the probable amount of slope failures between the present and the end of the 21st century]

Heavy rain disaster of August 14th - 15th, 2021
Established in February 2022 as an organization of Industry-academia-government collaboration

It supports local businesses in commercializing decarbonization

124 organizations have joined in the consortium

Working together is necessary to realize a decarbonized society which is difficult to achieve with individual efforts alone
Energy Infrastructure which supports a zero carbon city, and brings economic development to the local area.

They play a crucial role in the development and supply of renewable energy to the local area.

Waste to energy (Matsumoto Clean Center)

Solar power generation equipment is to be installed sequentially.
Local Transportation Infrastructure Towards Decarbonization

- **Commercially Managed Public Transport**
- **Introducing AI On-Demand Transportation System**
- **Promoting utilization of bicycles**

Bicycles for bicycle-sharing parked at Matsumoto Castle

On-demand transportation (Image only)

Local bus running through the city