

## Matsumoto-Salt Lake City Sister Cities 65<sup>th</sup> Anniversary







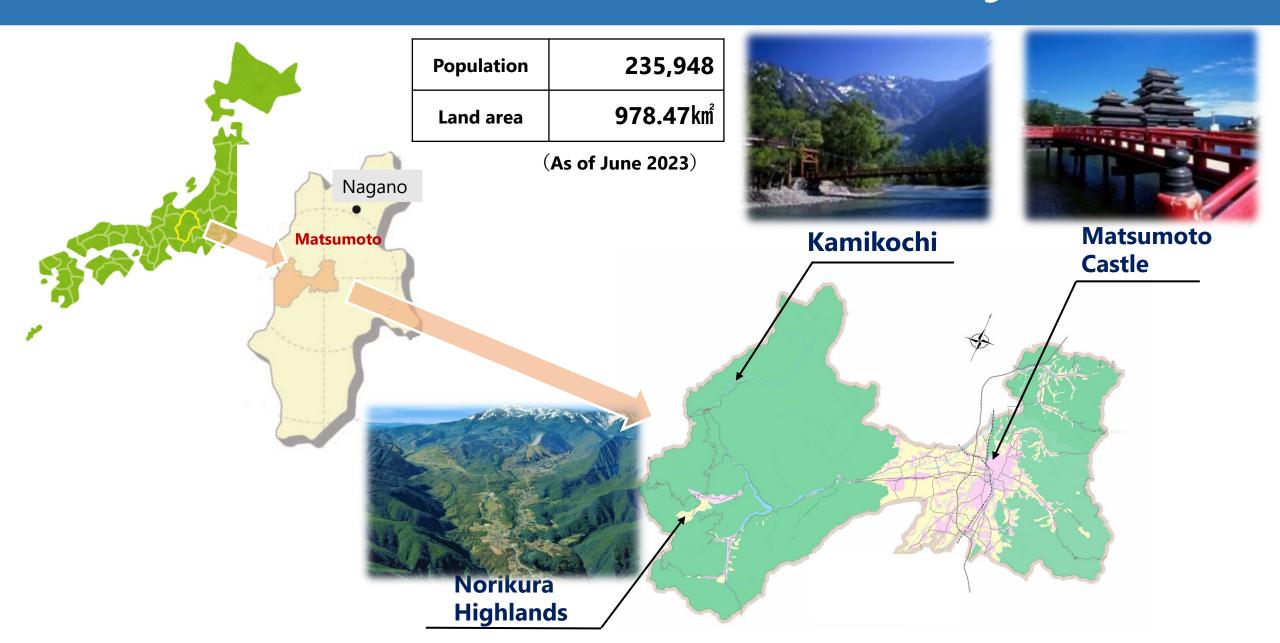


# Mayoral Panel on Climate Change

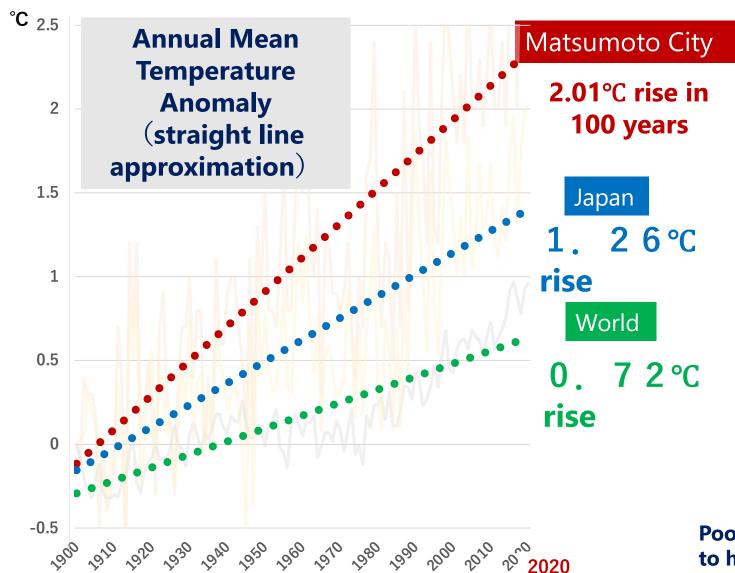
市長パネル 気候変動について



# **Overview of Matsumoto City**



## **Current Situation in Matsumoto**



Approx. 3 times that of the world



**Ski fields lacking snow** 

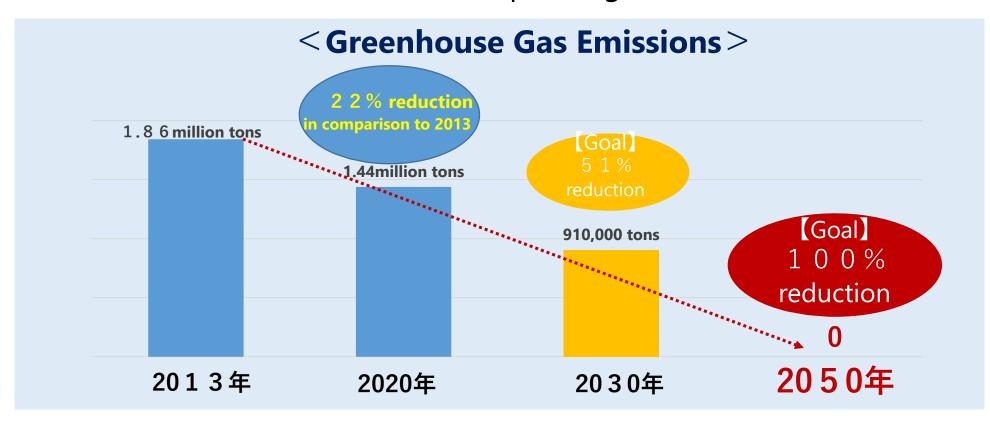


Poor quality apples due to high temperatures



# **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)



# Challenges

- (1) Promoting the introduction of renewable energy
- 2 Accelerated reduction of greenhouse gasses



3 Development of leaders to drive decarbonization



<Industry-academia-government collaboration platform >

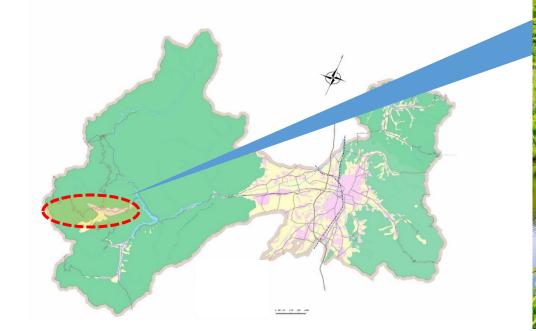
< New local power supplies >

## < Leading Project >

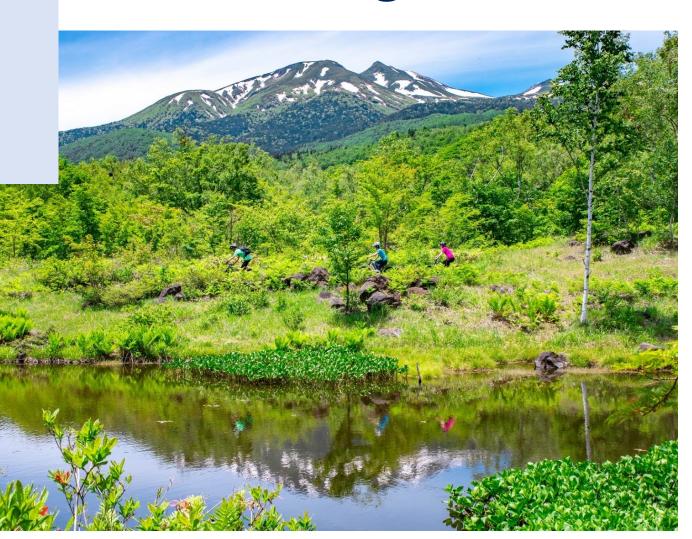
- 1 Promoting the introduction of renewable energy
- 2 Accelerated reduction of greenhouse gasses

#### **♦**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

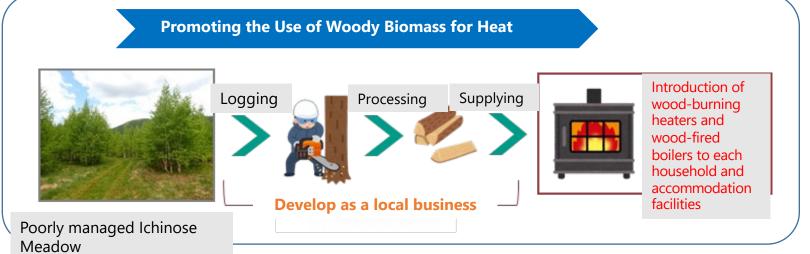


## < Leading Project >

- $\widehat{\mathbb{1}}$  Promoting the introduction of renewable energy
- 2 Accelerated reduction of greenhouse gasses







## < Leading Project >

- $oldsymbol{\mathfrak{1}}$  Promoting to introduce renewable energy
- 2 Accelerate to reduce greenhouse gas

#### **Three Elements for Achieving a Decarbonized Society**



To the Entire Matsumoto Region



1 Maximizing Introduction of Main Sources of Renewable Energy



2 Proactive introduction of energyconserving equipment, etc.



3 Promoting active use of diverse renewable energy



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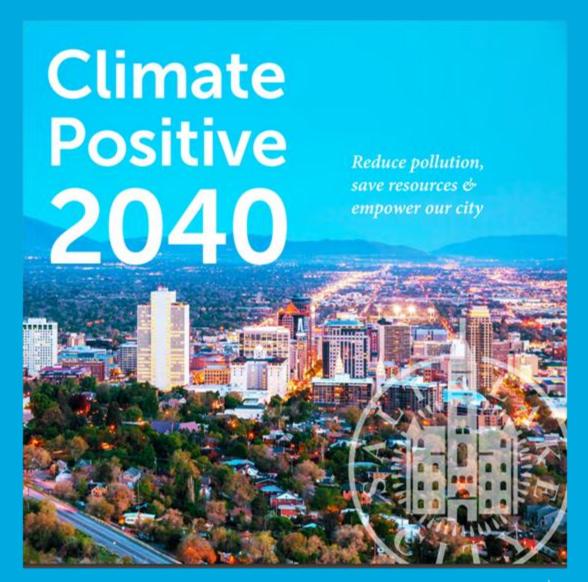
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# Salt Lake City Climate Goals | Joint Resolution

- •100% Renewable Energy for Community Electricity Supply by 2030
- •80% Reduction in Community Greenhouse Gas Emissions by 2040



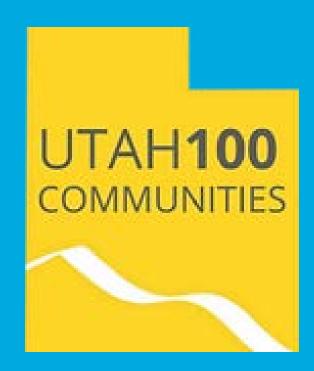


### Community Renewable Energy Program

- 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.



Elektron Solar Groundbreaking, Oct. 19, 2021



### 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

#### REDEVELOPMENT AGENCY OF SALT LAKE CITY

#### SUSTAINABLE DEVELOPMENT POLICY

All new construction projects receiving any RDA funds (and rehab projects receiving >\$200K in RDA funds) must meet all of the following requirements:

SCORE OF 90

Meet energy efficiency design target to perform among top 10% of buildings nationwide 100% ELECTRIC Design buildings without natural gas SLC'S ENERGY BENCHMARKING PROGRAM

Submit yearly operational data to SLC's Elevate Buildings Program







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### 市長パネル Mayoral Panel 気候変動について on Climate Change

Matsumoto's climate action plans <a href="https://www.city.matsumoto.nagano.">https://www.city.matsumoto.nagano.</a>



Salt Lake City's climate action plans <a href="https://www.slc.gov/sustainability/climate-positive">https://www.slc.gov/sustainability/climate-positive</a>



See this full presentation & more: <a href="https://wilkescenter.utah.edu/eve">https://wilkescenter.utah.edu/eve</a>
<a href="https://wilkescenter.utah.edu/eve">nts/sister-cities-panel</a>











# Anticipated Impacts

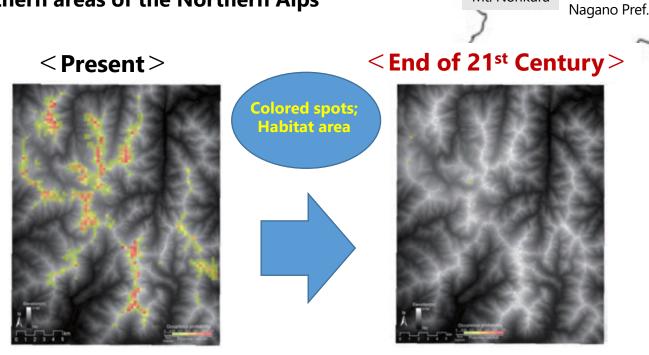
Symbolic Bird of Nagano Prefecture

**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



Northern Alps

Mt. Norikura

Reference: Nagano Prefecture Climate Change Impacts and Policy Adaptation

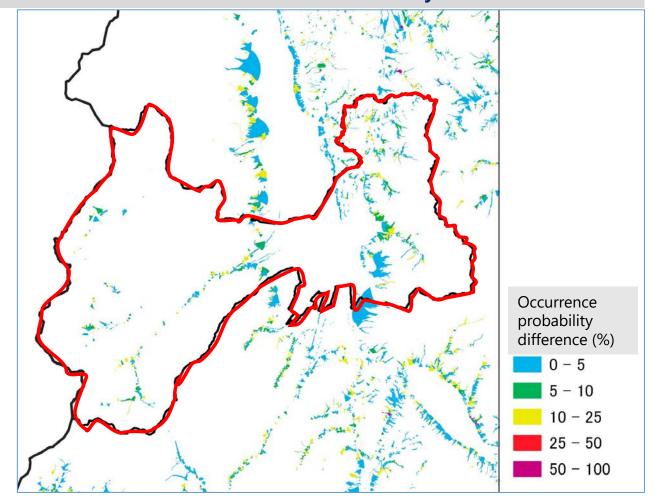
# Anticipated Impacts

#### **Increase in Sediment-related Disasters**

[Increases 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



# < Industry-academia-government collaboration platform >

**3 Development of leaders to drive decarbonization** 

### **♦**Matsumoto Region Zero Carbon Consortium**♦**

- Established in February 2022 as an organization of Industry-academiagovernment collaboration
- It supports local businesses in commercializing decarbonization
- 124 organizations have joined in the consortium

**Citizens** 

Local government

**Industries** 

Working together is necessary to realize a decarbonized society which is difficult to achieve with individual efforts alone

**Universities** 

Financial Institutions



**Subcommittee Meeting of the Matsumoto Region Zero Carbon Consortium** 

### < New local power supplies >

**3** Development of leaders to drive decarbonization

- 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





Local bus running through the city

**Bicycles for bicycle-sharing** parked at Matsumoto Castle

On-demand transportation (Image only)

