

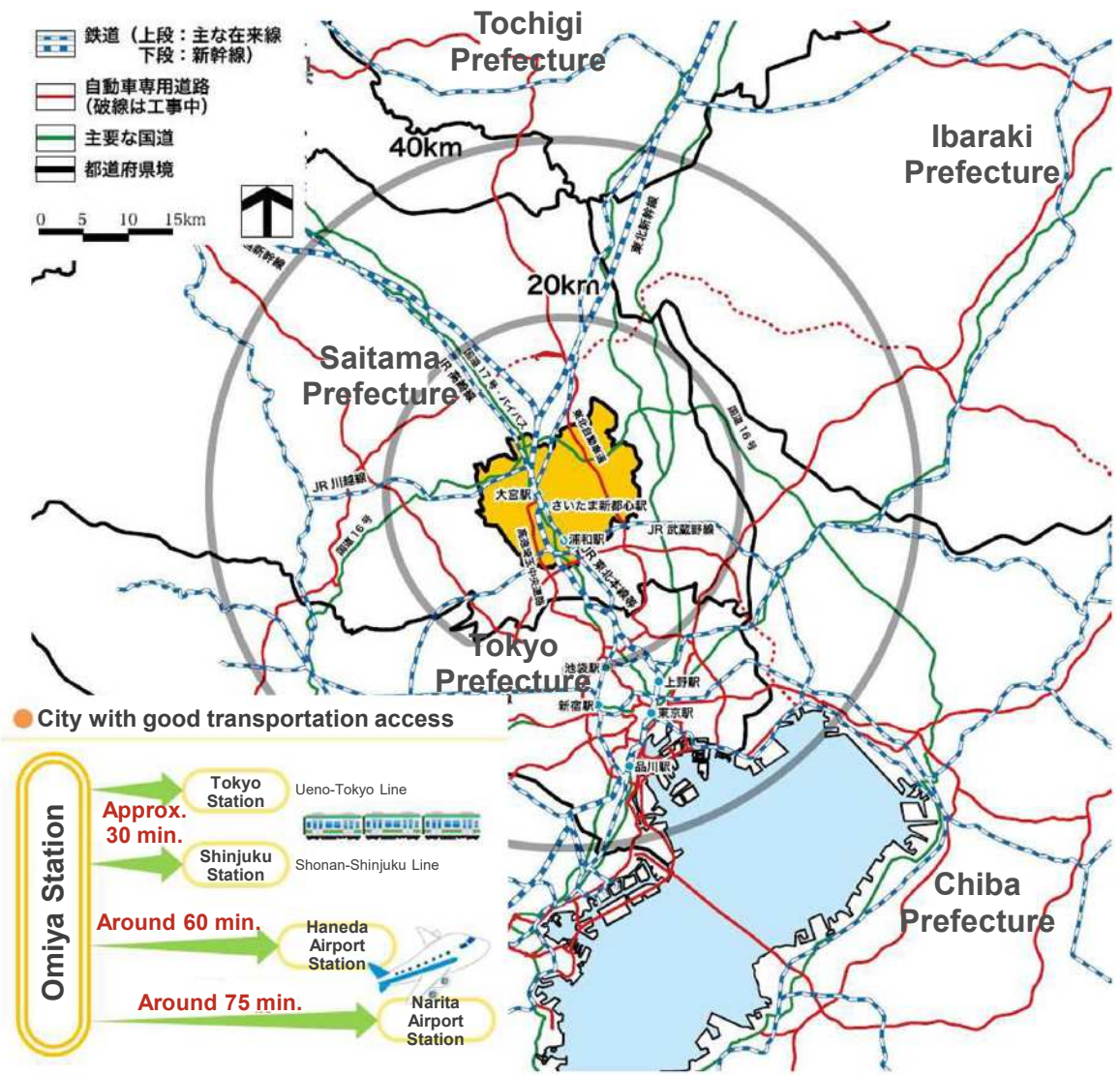
Smart City Saitama Model

Misono District Smart Home Community Initiative

October 19 (Thu), 2023

**Department of Futuristic City Promotion
City Strategy Headquarters
Saitama City**

Overview - Saitama City



● City with good transportation access



- 20-40km away from central Tokyo
Located in southeastern Saitama Prefecture
- Ordinance-designated city / Prefectural capital
- Transport hub with six Shinkansen lines

- May 2001: Saitama City is established
First city in Saitama Prefecture to hit a population of 1 million
- April 2003: Became an ordinance-designated city
13th such city in Japan
- April 2005: Merged with Iwatsuki City



■ Population:	1,343,296
■ Number of households:	638,042 households
■ Area:	217,43 km ²
■ Population density:	6,178 persons per km ²
As of August 1, 2023	

City-to-City Collaboration



Saitama City hosted the Saitama Sustainable Cities Summit ~E-KIZUNA Global Summit~ to work with other cities throughout Japan and the world. Participating cities exchanged ideas and information on effective policies to achieve sustainable cities through a positive cycle of economy, society, and environment, while strengthening partnerships and contributing to the realization of a decarbonized society

DBKL and the Saitama City Hall have agreed to collaborate in sharing information and knowledge concerning the following areas for the promotion of friendly relations.

- 1) Sustainable Energy Management
- 2) Sustainable Mobility Management
- 3) Decarbonization Policy



Smart Home Community

Initial Concept of Smart Home Community

- City that guarantees energy security and is low-carbon
- Fostering a face-to-face close-knit local community and a city that is comfortable to live in

○ Ensuring de-carbonization and energy security

- ▶ Visualization of power usage (Home Energy Management System)
- ▶ Installation of solar panels
- ▶ Undergrounding of power lines improves the landscape and protects the town from collapsed utility poles during disasters

○ Highly insulated highly airtight performance housing (HEAT20 Grade 2)

- ▶ Prevents heat shock and hypothermia
- ▶ Enhances energy conservation
- ▶ Improves level of health as room temperature fluctuations are small year round

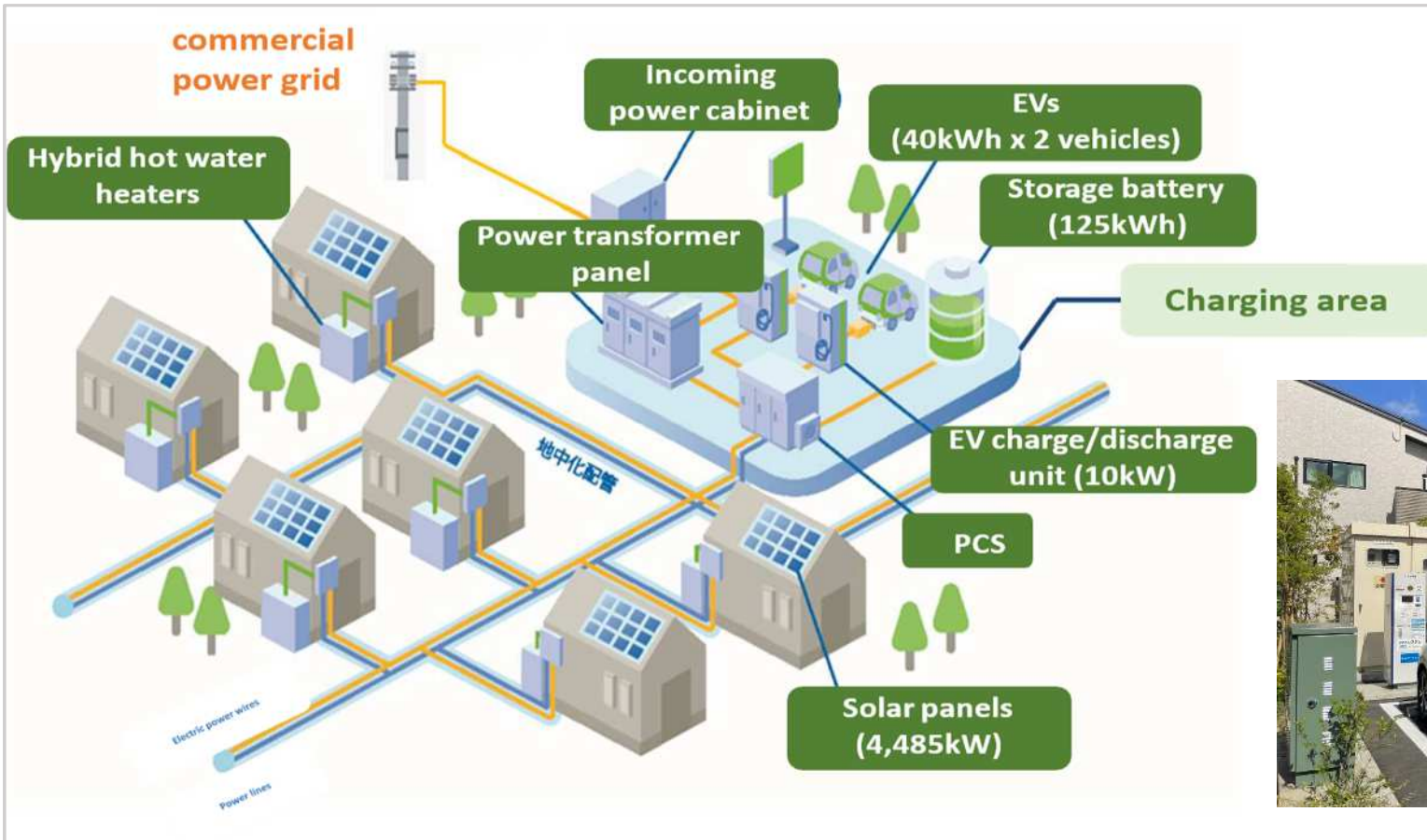
○ Community Spaces (Common Spaces)

- ▶ Layout that facilitates neighborly relationships between residents
- ▶ Formation of management associations, mini-events for residents (home gardening etc.)



Phase 3: Realization of local grid

Photo courtesy of Loop Inc.



Electrical equipment is owned by Loop (solar panels, etc., are not included in home prices)
Residents will sign an energy contract with Loop

Phase 3: Independent Operation Through Local Grid

Self-supported operation possible even during power outages
 Can be sustained for longer by adjusting power supply to each unit

Electricity demand: Low / Solar power generation: Active
 => Uninterrupted operation for 48+ hours
 Electricity demand: High / Solar power generation: Inactive
 => Uninterrupted operation for 6.5 hours

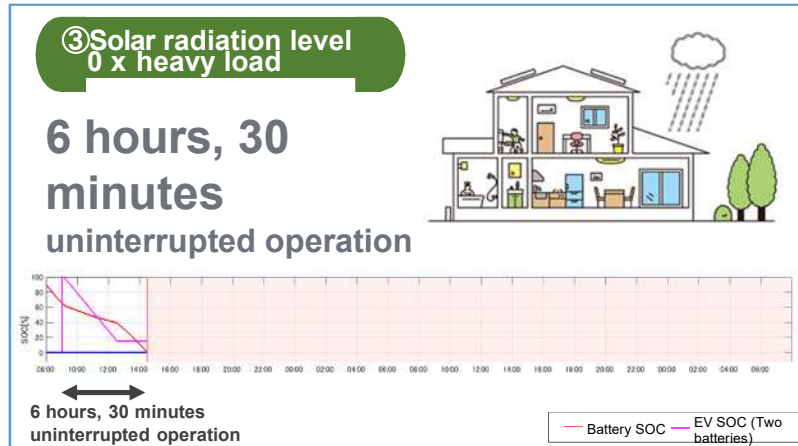
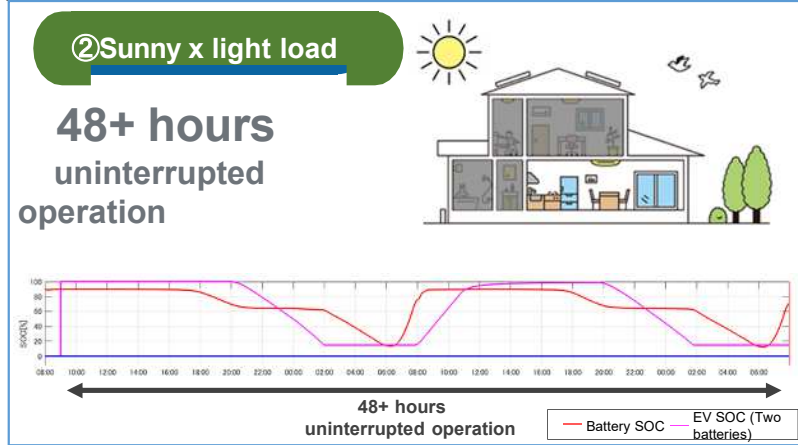
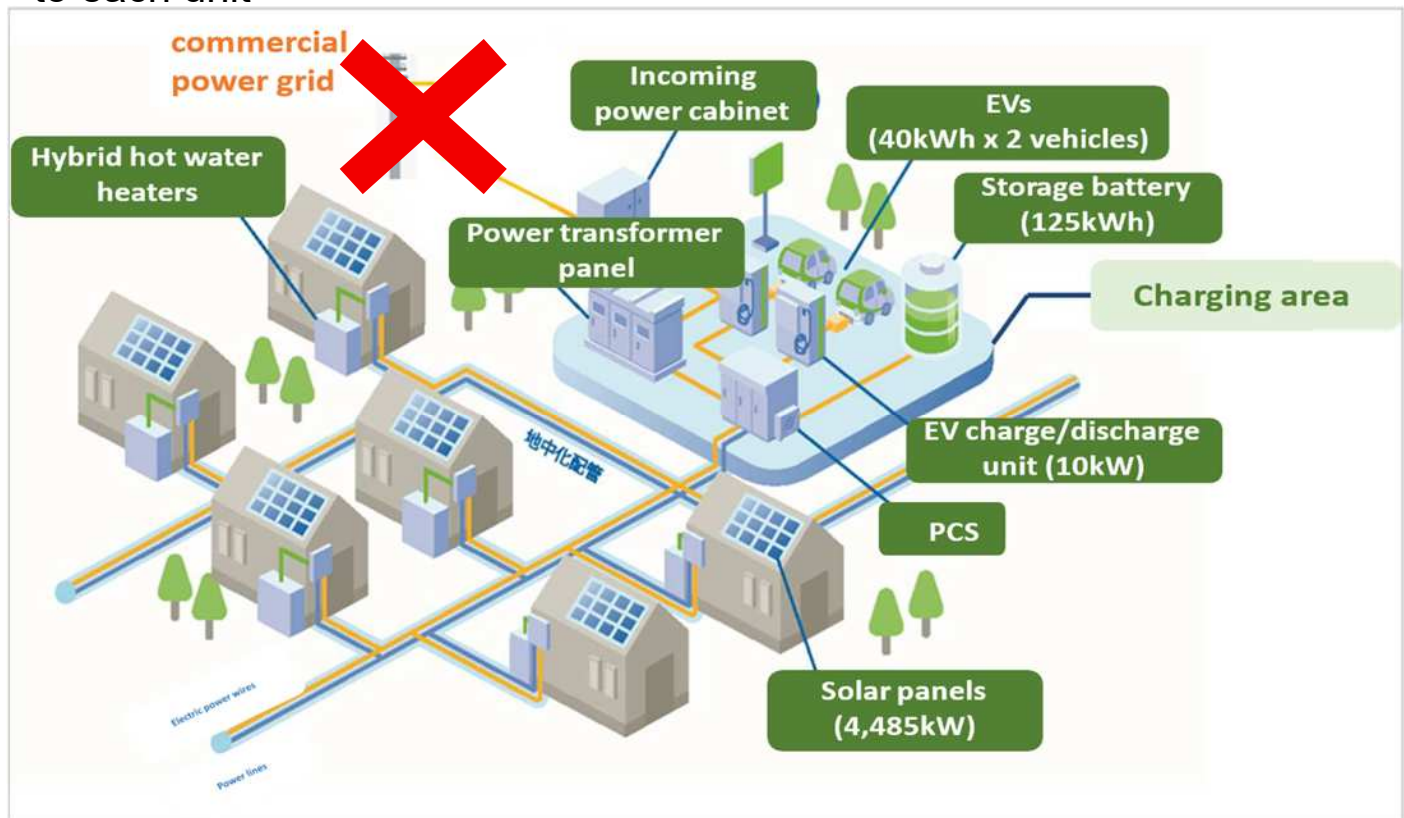


Photo courtesy of Loop Inc.