

#### **SDGs Future City**



"Energy", "Forest", and "Multicultural"



# Energy Policy of Hamamatsu City Realization of "Energy Smart City"

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## **Outline of Hamamatsu City**





[History] 2005 Merger of 12 municipalities

2007 Became a government ordinance designated city

"A model of Japan in miniature" with both urban areas and hilly and mountainous areas

## **Outline of Hamamatsu**

SMART CITY HAMAMATSU





**New Energy Promotion Project Headquarters** 

## <2011.3> Great East Japan Earthquake <2012.4> Establishment of the New Energy Project HQs

(a division directly answering to the mayor)





# Hamamatsu Energy Vision

# SMART CITY HAMAMATSU



HAMAMATSU CITY

## The State of Renewable Energy

III NII A MAMATSU







"RE100" in Hamamatsu City (2020.3.30)

Hamamatsu City RE100 Declaration

### Aiming for zero CO2 emission by 2050

declared to realize

**RE100 in Hamamatsu City** 

### What is RE100 in Hamamatsu

Renewable Sources in Hamamatsu City  $\geq$  Total volume of energy use in the city area

X To produce renewable energy that is equivalent of total volume of energy use in the city area (definition by Hamamatsu city based on RE100 concept)



SMART CITY HAMAMATSU

#### For zero CO2 emission, taking advantage of city's strengths - "energy" and "forest" Targets and Strategies for "RE100" challenge

		2018 (actual)	2030 (target)	2050 (target)
Volume of RE(MWh)	Except large hydro A	698,556	1,370,160	2,215,000
	Including large hydro B	3,028,797	3,700,401	4,545,241
Total energy consumption in the city(MWh) C		4,996,340	4,700,000	4,500,000
Self-sufficiency rate of	Except large hydro A/C	14.0%	29.2%	49.2%
renewable energy	Including large hydro B/C	60.6%	78.7%	101.0%
		<ol> <li>Introduce and use more renewable energy</li> <li>Thorough energy-saving and innovation</li> </ol>		
million t (2016 actual) 3. Forest absorp				tion of CO2
A HAMAMATSU CITY				

#### <2015.10>

Established the first local PPS financed by local government among government ordinance-designed city

Providing electricity to public buildings and houses in Hamamatsu city with energy produced at the PV power plants and waste incineration facility in the city.





# Hamamatsu Energy supports local energy production and consumption



#### $\star$ Aligning with city's energy policy $\star$

- Local energy production and consumption with best use of local renewable sources in the city
- Vitalization of local economy with fund flow within the city
- Awareness raising of citizens on energy and environment conservation
- Establishment of a resilient and low-carbon society (=energy smart city)

HAMAMATSU CITY

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Smart City Project Reserach Group

Selected 4 areas among various fields of the city, a model of Japan in miniature



... Utilization of heats, data utilization, VPP, utilization of hydrogen



Thank you for your attention.







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