



Agenda

(1) Energy Policy of Fukuoka City (summary)

- (2) Promoting the Introduction of Renewable Energy
- (3) Initiatives of Hydrogen · Fuel cells

(4) Promotion of Smart Community

Energy Policy of Fukuoka City (summary)

Vision

"Produce", "Use efficiently" and "Live comfortably" Create comfortable life in Fukuoka !

• Early realization of "Fukuoka Model", self distributed energy supply society

To understand the characteristics of Fukuoka, by cooperating with wide-area energy infrastructure, introduce and efficiently utileze the distributed energy supply by maximum use of various types of energy.

• Be the model city for environment and energy

Being friendly to earth, take steps to deal with disaster and blackout, and improve people's living quality

«Goal for 2030» • Introducing energy saving/renewable energy in housings, buildings and next the generation's vehicles

Global Eco

• Energy will be used more efficiently as the citizens and companies will understand it better

Living environment • Systems to interchange the energy will be created in the community. By strengthen the network with ICT, living related service will be improved more.

• Energy distribution will be promoted more as the measurement for future disasters



- Creating new energy industries from Fukuoka
- Industry-academic-government cooperation of Fukuoka will be watched by other parts of Japan and abroad
 FUKUOKA CIT



Promoting the Introduction of Renewable Energy

Fukuoka City is a Power Generation Provider !

Mega Solar Power Plant







Rent rooftops of buildings own by the city

Fukuoka City rents rooftop space of buildings owned by the city to private business operators, and the operators have installed solar power generation facilities on the rooftops.

1st

The 1st one among designated cities !

Ohara Mega Solar power Plant (Imazu, Nishi-ku, Fukuoka) [Power generation started] Feb 2013

[Power generation started] Feb 2013 [Power outlet capacity]1,000kW [Annual power generation]1.16 million kWh (eq. to power consumption of 220 hh) [Investment] approx. 520 million yen (20years) ※lease contract [Total power sales for 20 yrs] 850 m yen

2nd

-Using a completed landfill - Having auto operation function

Kamata Mega Solar power Plant (Kamata, Higashi-ku, Fukuoka)

[Power generation started] March 2014 [Power outlet capacity]1,000kW [Annual power generation]1.08 million kWh (eq. to power consumption of 200 hh) [Investment] approx. 50 million yen (20years) ※lease contract [Total power sales for 20 yrs] 770 m yen

Installment record of renewable energy for facilities of Fukuoka City power outlet capacity 73,333kW (end 2013 : 169 facilities)

Initial investment is not needed

 \rightarrow Able to installed the facilities in many places simultaneously

 \rightarrow Able to install it in large-scale



Merit

City is able to receive stable rent



Able to install automatic operation functions and fuel cells



Initiatives of Hydrogen · Fuel cells

Challenge for greater diversification

• take the lead of the installation of renewable energy to public facilities

Expand the usage of rooftop space of public facilities, or encourage to use other space such as water surface

• support commercial facilities to install renewable energy

City development program with citizen's participation. (Power generation initiatives by city-citizens' cooperation)

• Development · dissemination of various types of renewable energy

Micro wind power, micro hydro power generation, wooden biomass, etc.





Wind-lens turbines



Micro hydro power in a building





Subway Kaizuka station







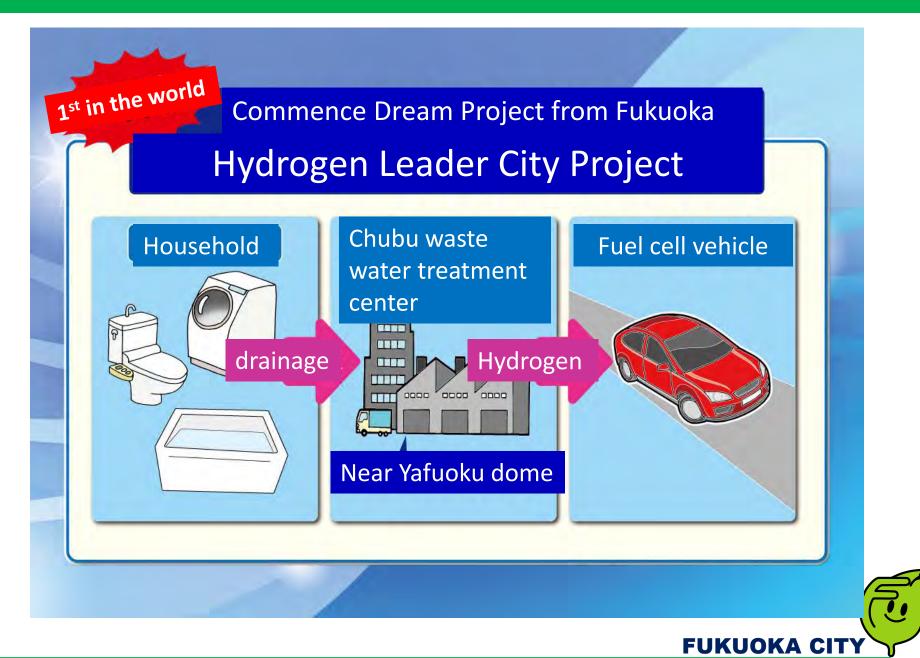


水素・燃料電池の取組み Hydrogen & Fuel Cell Projects

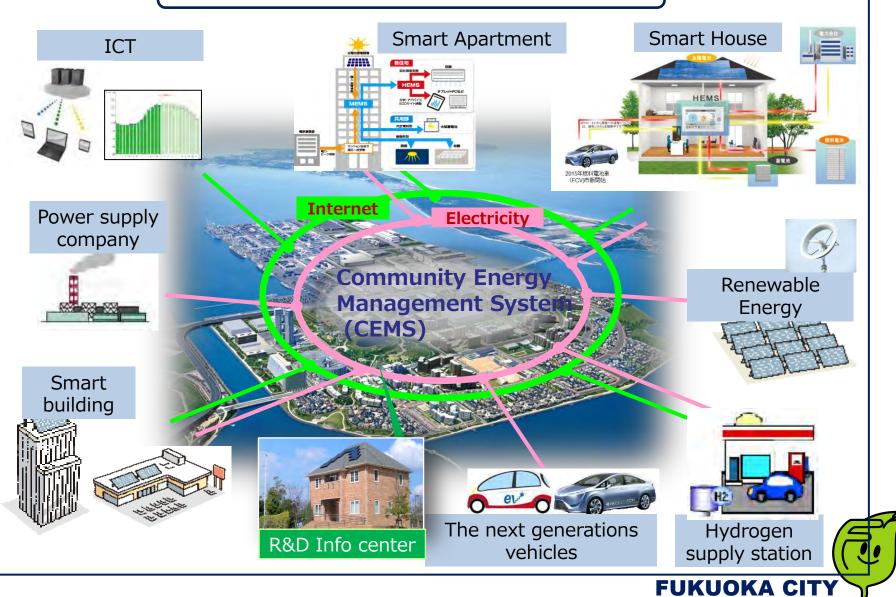


出典:経済産業省「水素・燃料電池戦略ロードマップ」(2014 年6 月) "Roadmap for Hydrogen & Fuel Cell Strategy" by Ministry of Economy, Trade & Industry of Japan

FUKUOKA CITY







• Fukuoka Smart Community Project Council

Industry-academic-government coop. organisation that promote smart community in Fukuoka City. Efficient use of renewable energy, living assistance service using IT, more practical use of fuel cells technology, creation of smart community related business and improvement of life quality by promoting capacity building of people.



• Fukuoka Smart House Consortium

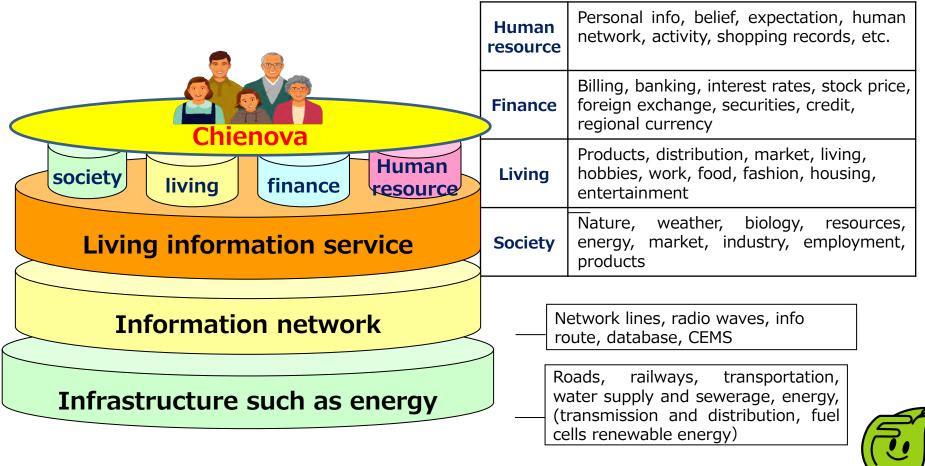
In order to establish sustainable low carbon society, inaugurate Fukuoka Smart House Consortium by enterprises / universities that study energy related equipment and system development. Undertake demonstration test with the key words of "produce, store, efficiently use energy at the housing exhibition space.



○To achieve smart community where people can recognize better quality of life, making good designs and system of living info service is needed.

○To make residents to notice the importance of Smart Community Project, showing the vision of how the life would be improved, how communities be richer in quality is important.

OFukuoka Smart Community uses communication platform method that can bring out the potential needs of residents for the realization of comport of residents and betterment of communities.



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Thank you,

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(Centact)