

**“UNITE. ACT. DELIVER” × field of “Production”**

***The Ryuo Town Biogas Project:  
Addressing Local Challenges  
Through Resource Circulation  
Using Nature-Based Solutions***

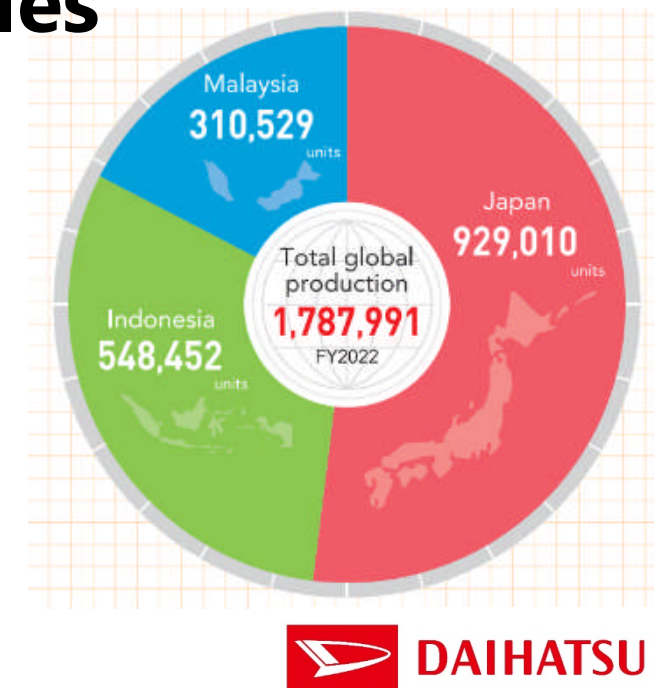
**Mari Uenishi, Ph.D.  
Car and Life Style R&D Div.  
Daihatsu Motor CO.,LTD.**



*Who We Are?*

# Daihatsu Motor CO.,LTD.

- Established in 1907
- Manufacture and sales of automobiles
- Within the Toyota Group



# Daihatsu Shiga Plant

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Operating for 50 years

while collaborating with the local community.





# DAIHATSU's Action for Carbon Neutrality

- Optimizing energy efficiency in all processes
- Introducing renewable energy



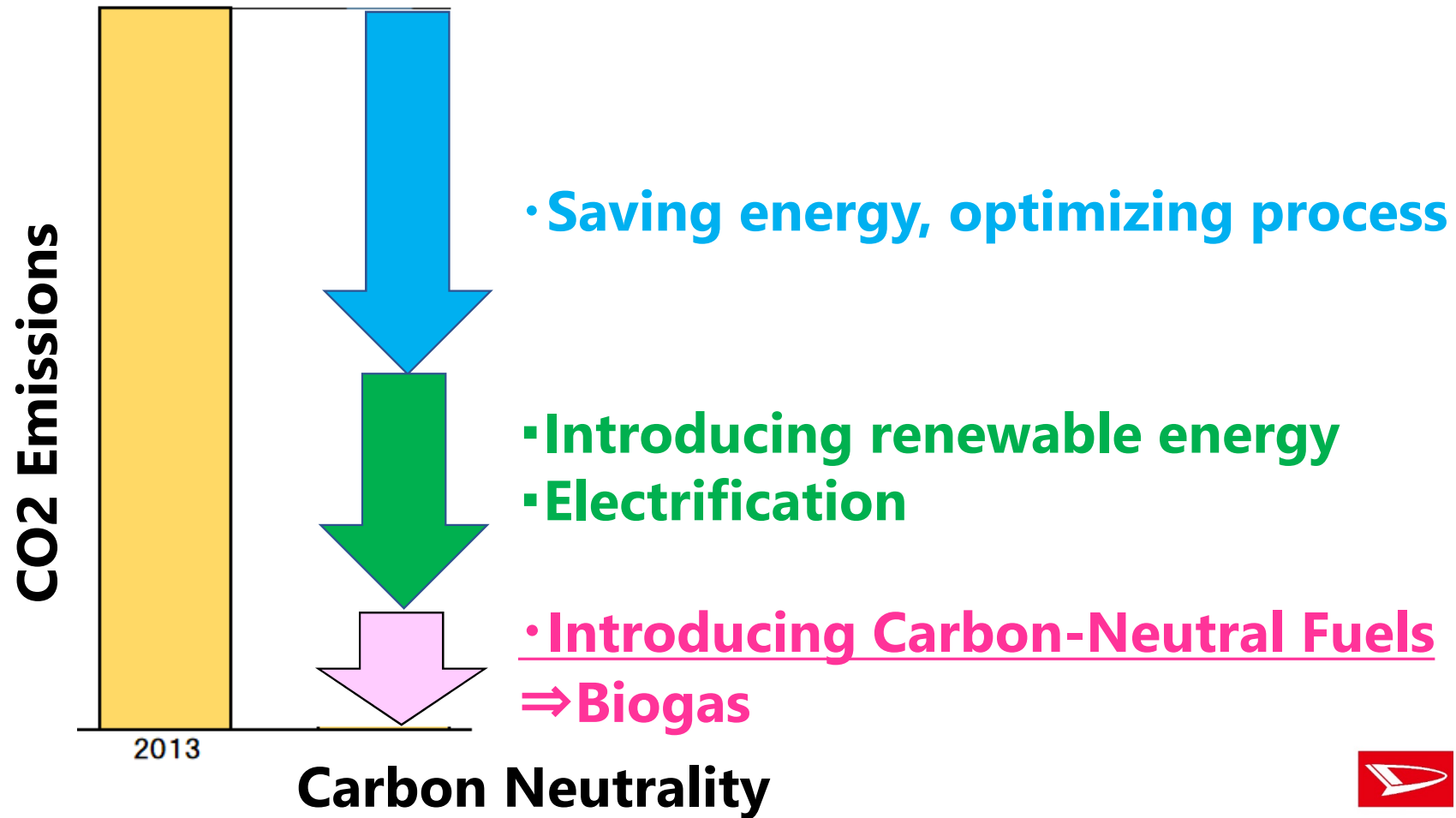
# **DAIHATSU's Action for Carbon Neutrality**

**In processes requiring intense heat, gas combustion is currently more effective than electricity.  
Biogas could be used with existing equipment.**



# DAIHATSU Action for Carbon Neutrality

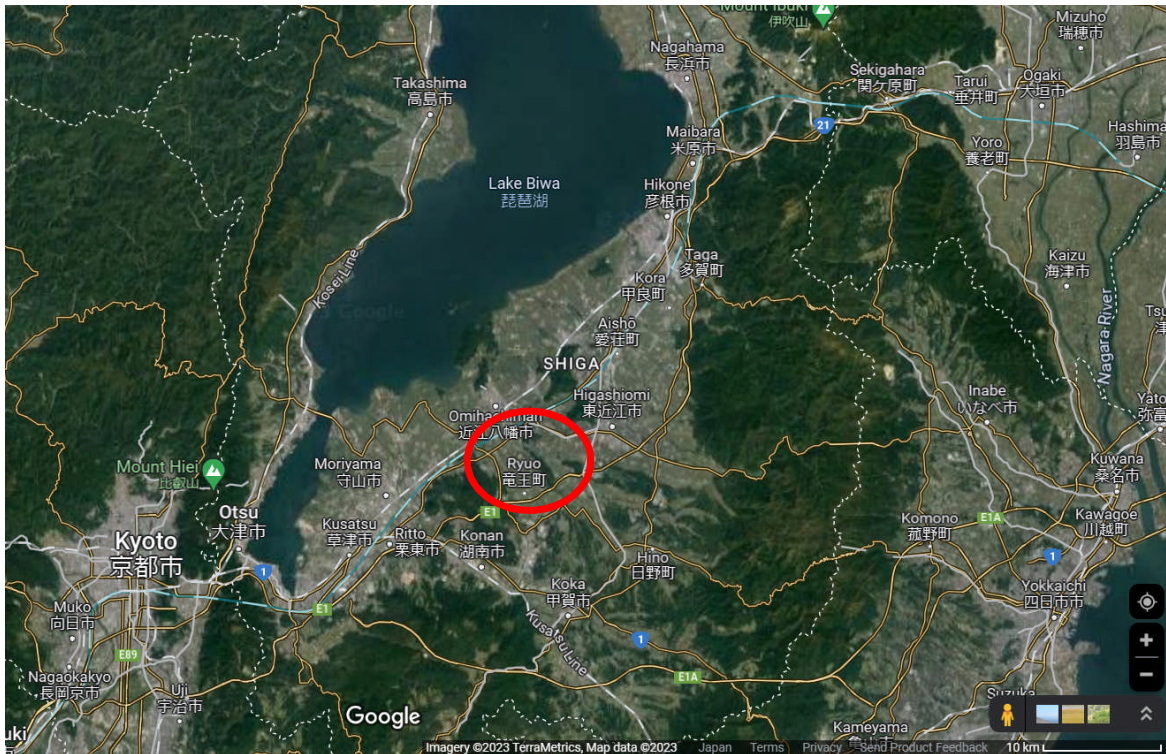
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# Ryuo Town, Shiga Prefecture

Picturesque natural beauty, rich agricultural traditions, and a strong sense of community.

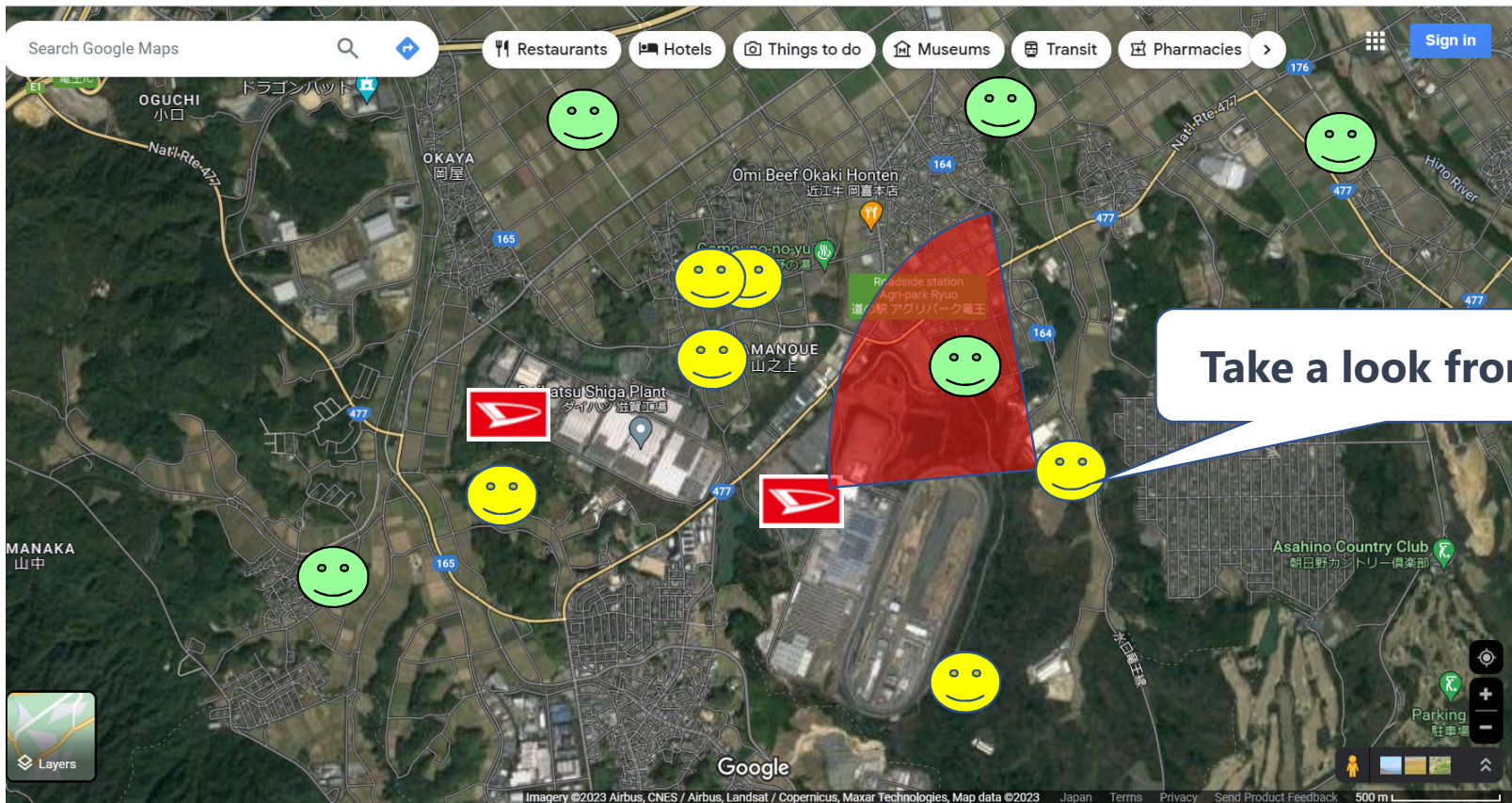


Ryuo Town is known for rice and Japanese beef.





# Diverse members of the community



Omi Cattle farmers ☺

crop farmers ☺





# Diverse members of the community

◇ Overview of the Biogas Project

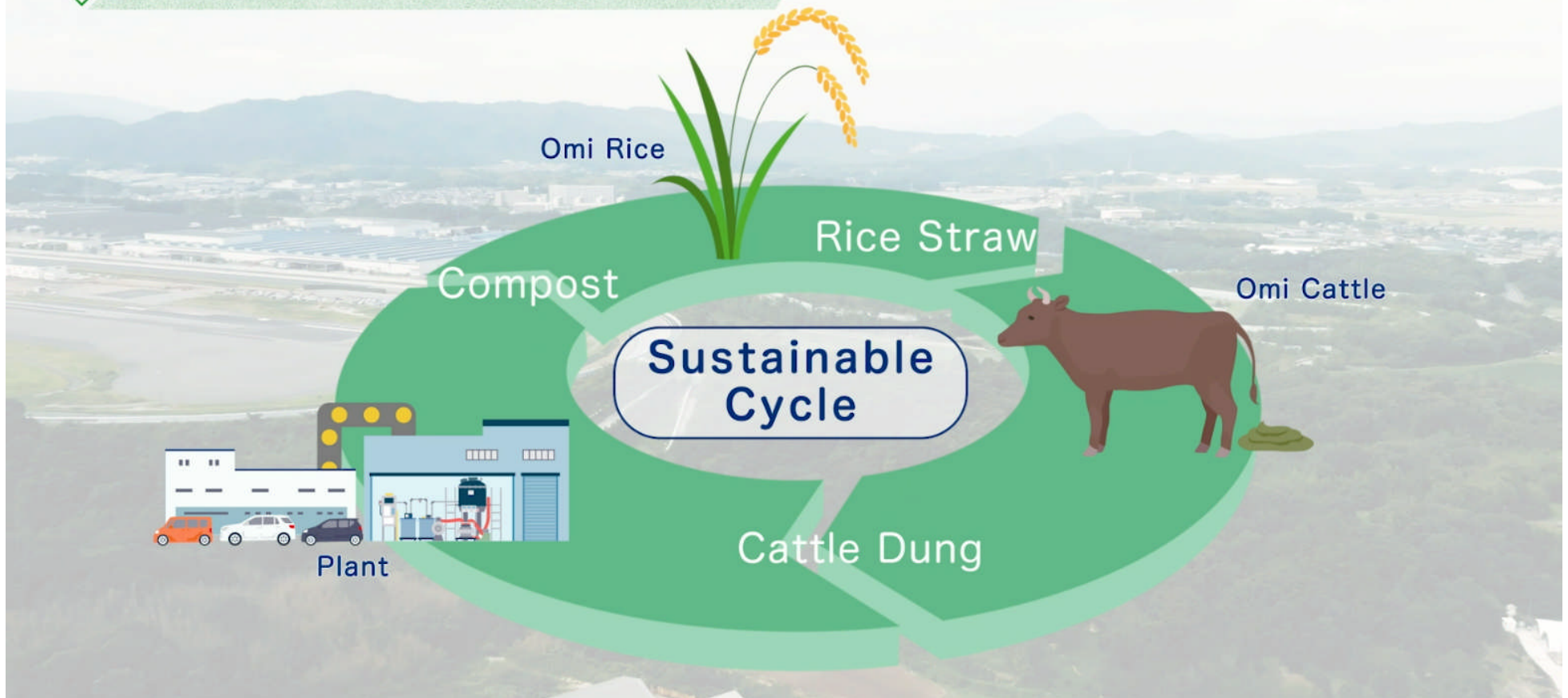


**Biomass resources are locally produced and consumed.**



# Resource circulation

## Overview of the Biogas Project





# Diverse members, local challenges

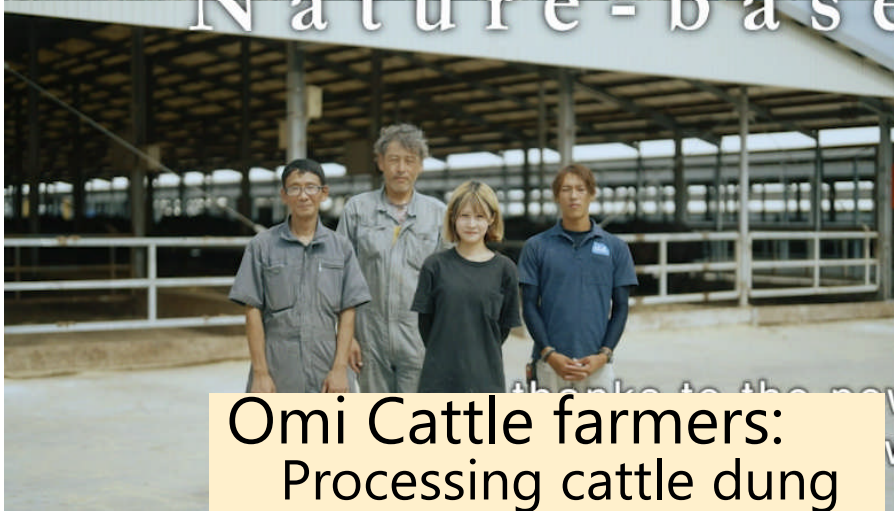


Government:  
Sustainable community



Crop farmers:  
Organic agriculture

## Nature-based Solutions




Omi Cattle farmers:  
Processing cattle dung



Daihatsu Plant:  
Carbon-neutral methane



 Action for Carbon Neutrality

Biogas lab



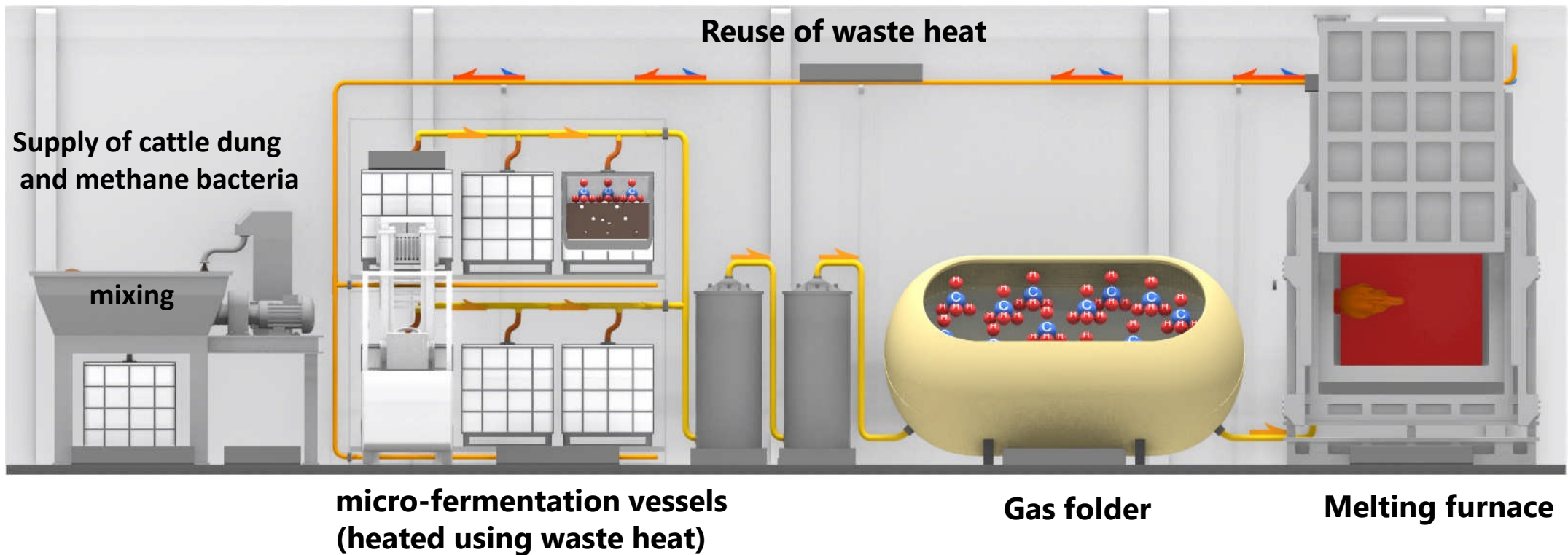
**Daihatsu is developing low-moisture fermentation technology suitable for this region.**





**Daihatsu is developing a manufacturing process that can achieve low moisture methane fermentation.**

# New biogas plant processes





# Conclusions

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1. Carbon neutral energy solutions are **diverse**.

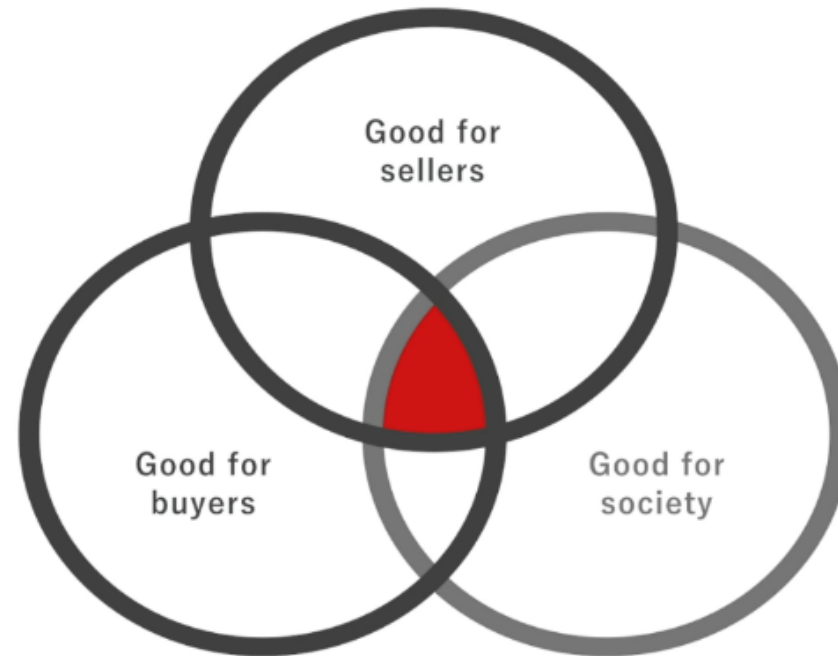
2. Communities can **join forces** to work towards carbon neutrality and sustainability.



3. Biogas can **begin now** using existing equipment.

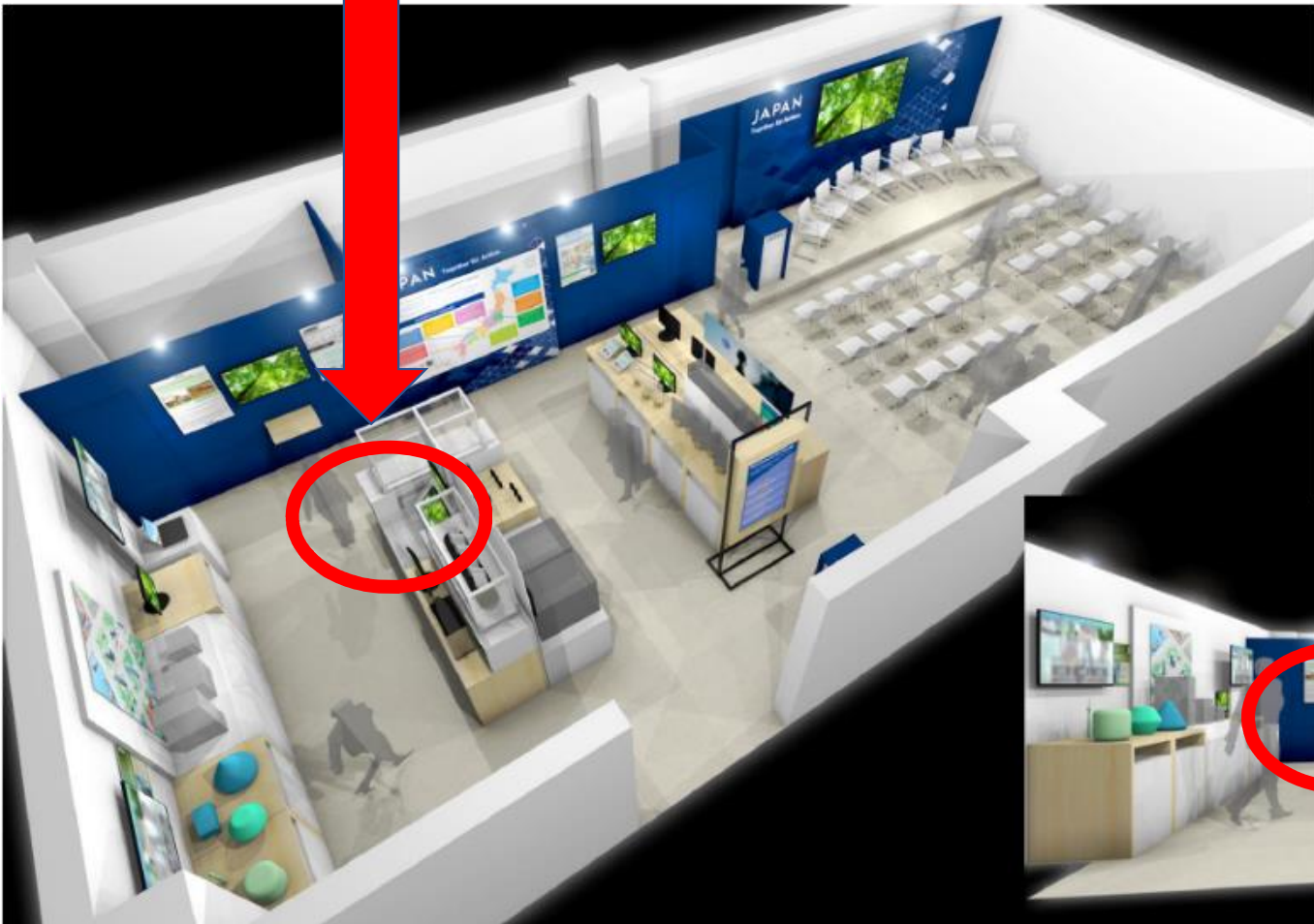
# Decarbonization using Local SDGs

Win-Win for All



**Rooted in the philosophy of Omi merchants of Shiga,  
and the traditional spirit of Japan**

# We are here!





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***Thank you for your kind attention***

