

Biogas Power Generation and Fuel Conversion Project in the Philippines

September 2024

ITOCHU Corporation



1. ITOCHU Group at a Glance



【Group Policy(“Sampo-yoshi”)】



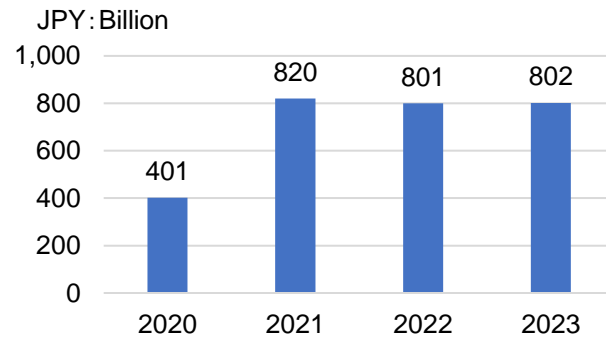
“urite-yoshi” (“good for the seller”)
 “kaite-yoshi” (“good for the buyer”)
 “seken-yoshi” (“good for society”)

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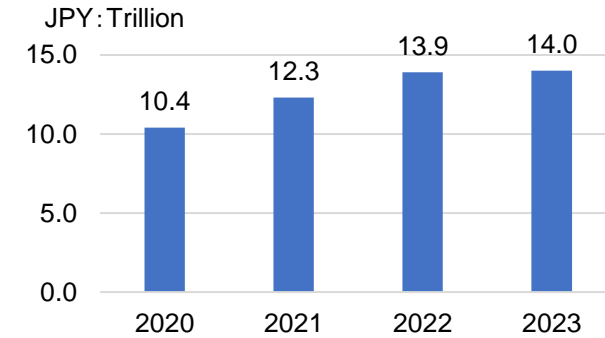
【Company Information】

| | |
|----------------------|--|
| Foundation Year | 1858 |
| Headquarters | Tokyo/Osaka |
| Offices | Domestic : 7 offices International : 87 offices |
| Affiliated Companies | 271 |
| Employees | HQs : 4,190 Worldwide : 110,698 |

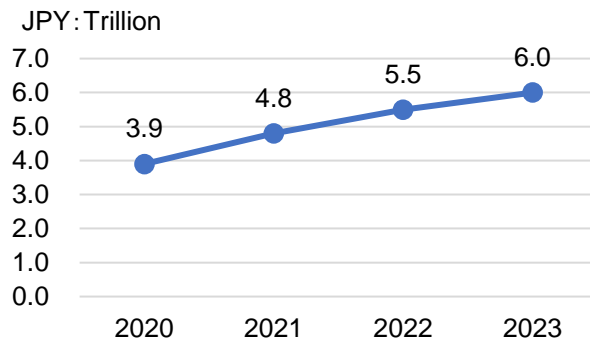
**JPY
802B**
NET INCOME
(≒ USD5bil)



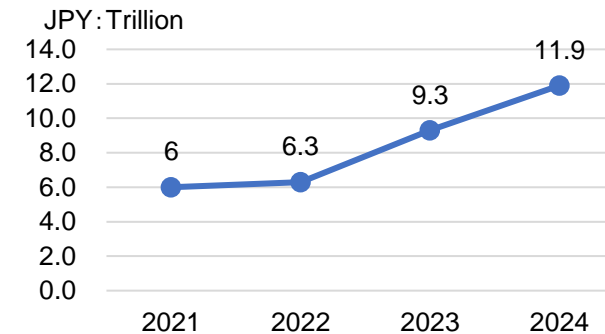
**JPY
14.0T**
ANNUAL REVENUE
(≒ USD93bil)



**JPY
6.9T**
NET ASSETS
(≒ USD36bil)



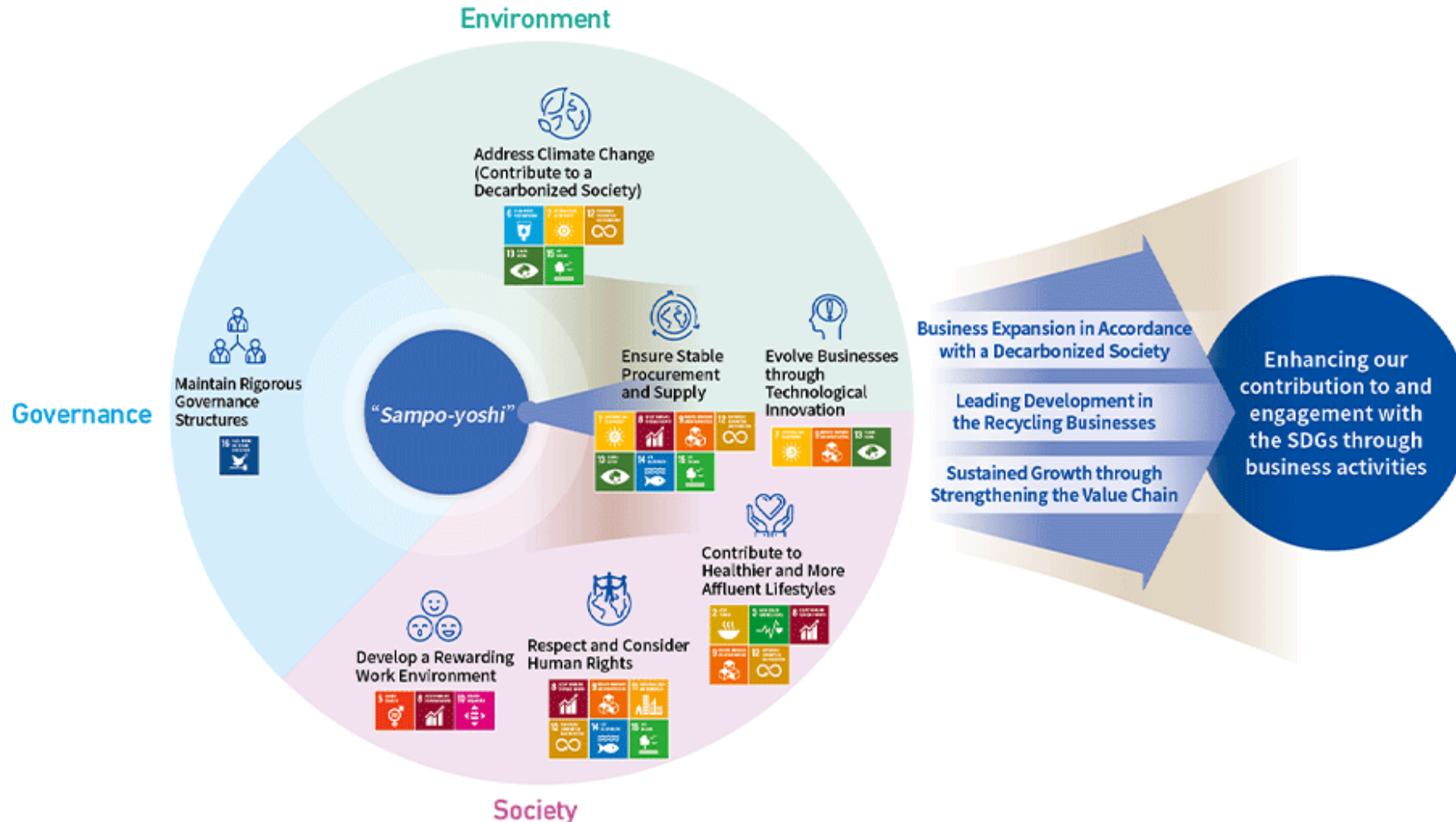
**JPY
11.9T**
MARKET CAPITALIZATION
(≒ USD71bil)



※As of June2024

2. ITOCHU SDGs

- With the spirit of our corporate philosophy ‘Sampo Yoshi’, we have identified 7 key material sustainability topics incorporating ESG perspectives. Through our main business activities, we commit to address social challenges and contribute to the achievement of the SDGs.



3. ITOCHU Business Segments



TEXTILE

Fiber, Raw materials, Fabrics, Finished Garments, Import Licenses for Luxury and Casual Brands



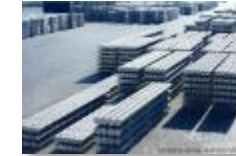
MACHINERY

Plant Project Development, Marine, Aerospace, Automobiles, Construction & Industrial Machinery



METAL & MINERALS

Coal, Nuclear Fuel, Solar-Steel, & Non Ferrous Products



ENERGY & CHEMICALS

Oil & Gas Exploration Projects, Trading of Crude Oil, Petroleum Products, LPG, LNG, Organic/Inorganic Chemicals



FOOD

Upstream Food Resources, Food Processing, Midstream Distribution Business through Wholesalers and Retail Businesses



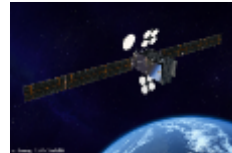
GENERAL PRODUCTS & REALTY

Forest Products & Building Materials, Third-Party Logistics, International Transportation, Real Estate Investment and Construction



ICT & FINANCIAL BUSINESS

IT Solutions and Internet-related Services, Strategic M&A, Financial Service & Insurance Services, Healthcare Businesses



THE 8th COMPANY

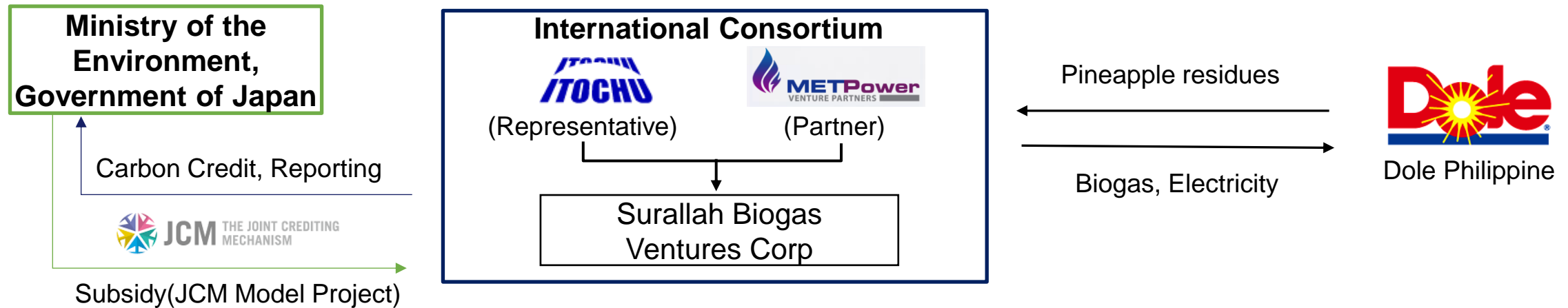
Established in 2019, serving as the foundation of our non-resource dependent business, providing innovation to ITOCHU and the traditional retail market



4. Overview of Our JCM Model Project



- Surallah Biogas Ventures Corp, which is funded by ITOCHU and MET Power Venture Partners (Philippines), is supplying biogas and electricity (5.7 MW) to Dole Philippines.
- This project utilizes 100% of the residues discharged from Dole Philippines' pineapple canning factories as biogas fuel. In addition to reducing greenhouse gas emissions through the use of renewable energy generated from residues, it also contributes to cost reductions in waste processing and solving environmental issues such as odor.
- ITOCHU Corporation has applied JCM mechanism as a representative of the consortium. We are contributing to build a circular energy system through this project.



Building a Circular Energy System

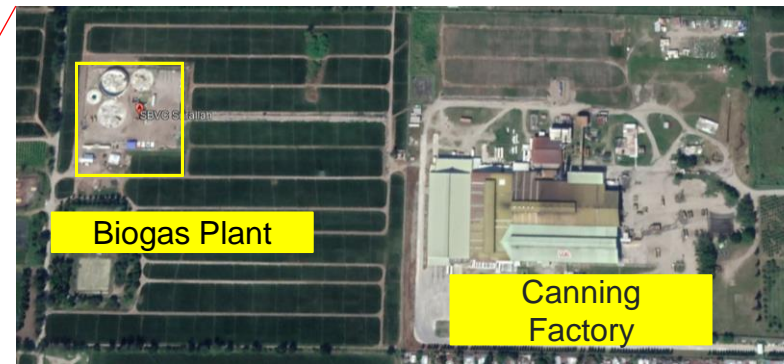
1. Significant reduction of greenhouse gases through biogas power generation from residues
2. Improving “food loss” issues by effectively utilizing waste(residues)
3. Residues left in the facility after biogas conversion are reused for compost production
4. Contributing to the stabilization of energy costs

5. Project Site of Biogas Plants

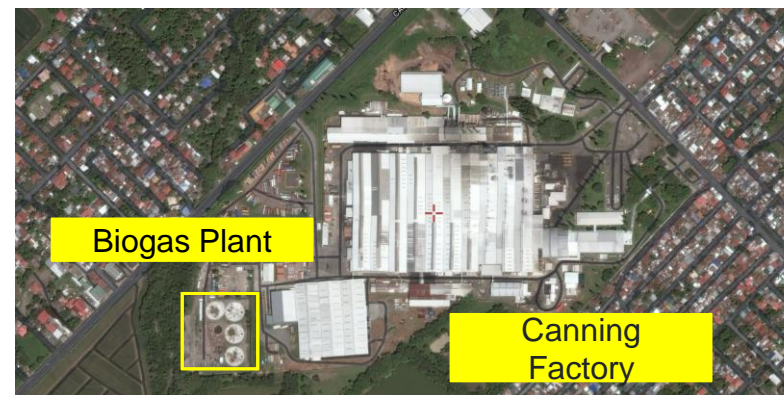
➤ Project consist of 2 biogas plants in General Santos (Surallah and Polomolok), which are both located in southern part of Mindanao.



① Dole・Surallah canning factory

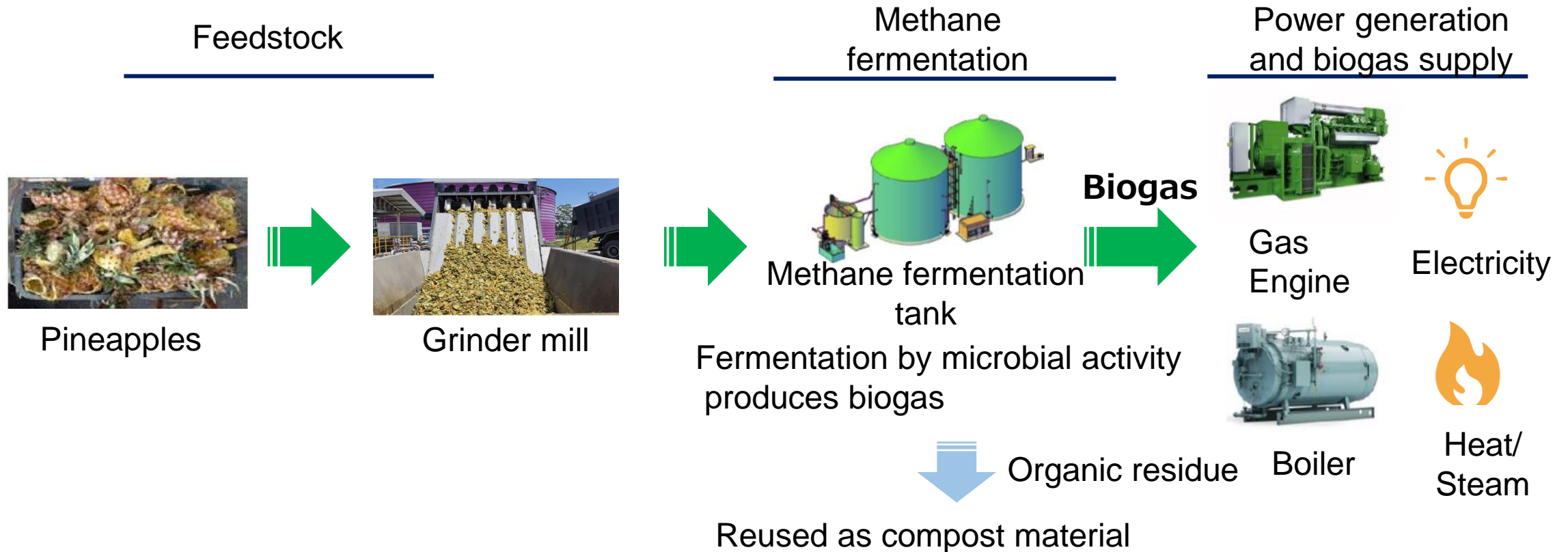


② Dole・Polomolok canning factory



6. Outline of Biogas Facility

- We extract biogas from pineapples residues generated in the pineapple canning process, and we utilize it for power generation and fuel substitution through gas engines.
- The expected greenhouse gas emission reduction is 54,167tCO₂ per year. This is the third-largest JCM project for the Philippines.



7. Surallah Biogas Plant

[Methane Fermentation Tank and Related Equipment]



8. Polomolok Biogas Plant

[Methane Fermentation Tank and Related Equipment]





Thank you for listening!