

# Creating Sustainable Water Management System through PPP

IWA Workshop "Water and Energy"  
April 8, 2014  
Tokyo, Japan

Swing Corporation  
Saburo Masuda  
Executive Officer

All Rights Reserved by Swing Corporation



## Sustainable Water Management System



All Rights Reserved by Swing Corporation



# Biomass Recycling Facility

Multiple Recycling System of Sewerage Sludge and Industrial Food Waste in Kurobe City, Japan



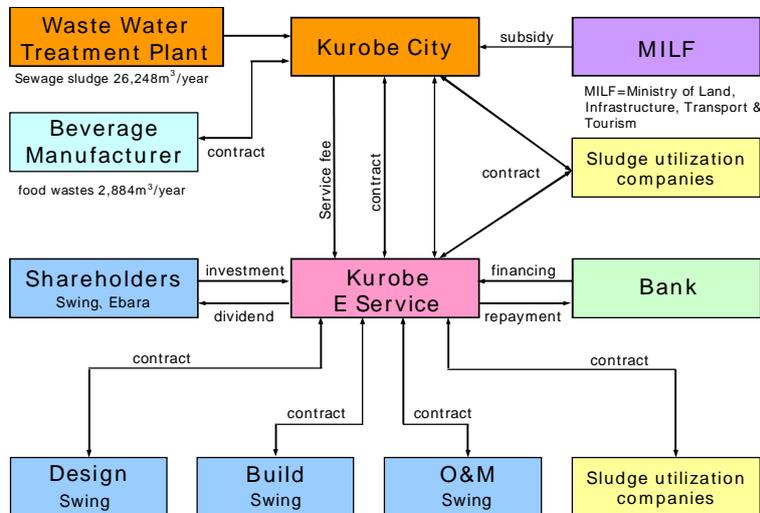
First biomass recycling plant in Japan using PFI method completed in 2011

All Rights Reserved by Swing Corporation



3

# Business Scheme – a PFI Project

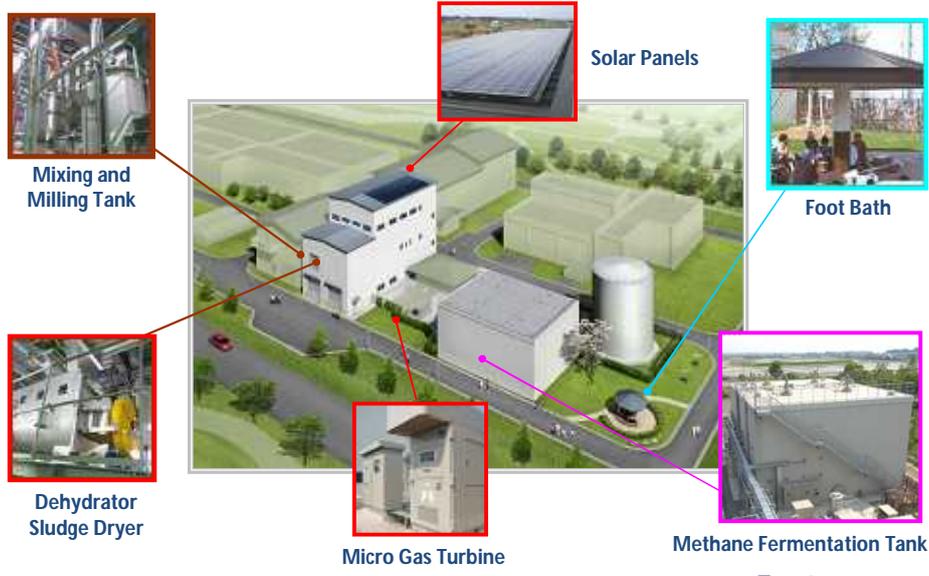


All Rights Reserved by Swing Corporation



4

# Overview of Methane Fermentation Plant

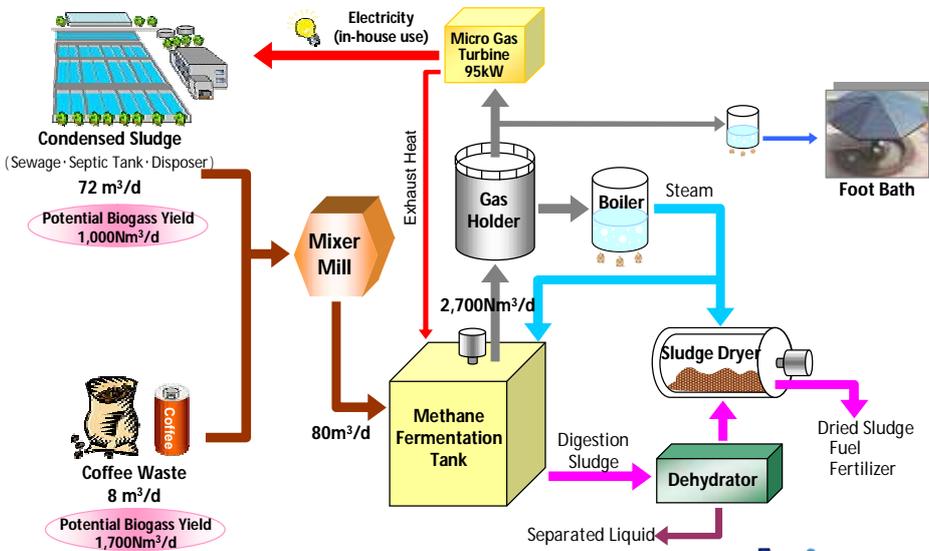


All Rights Reserved by Swing Corporation



5

# System Configuration



All Rights Reserved by Swing Corporation



6

## Benefits to Each Stake Holder

### ◆ Local Municipality

- Sludge discharge reduced by 60%
- Utilization of sludge as resources (alternative fuel, fertilizer)
- Reduction of fuel for sludge drying
- Supplements 10% of electricity supply for the waste water treatment plant

### ◆ Local Community

- Foot Bath Facility ( Several hundred local residents visit every month)

### ◆ Local Industry

- Reduced waste disposal cost

### ◆ Biomass Power Plant

- Alternative source of fuel



Foot Bath

All Rights Reserved by Swing Corporation



7

## KOBE Harvest Project

Harvesting rich resources from sewage; B-DASH, a PPP project supported by Ministry of Land, Infrastructure, Transport and Tourism



Recovered Phosphorus



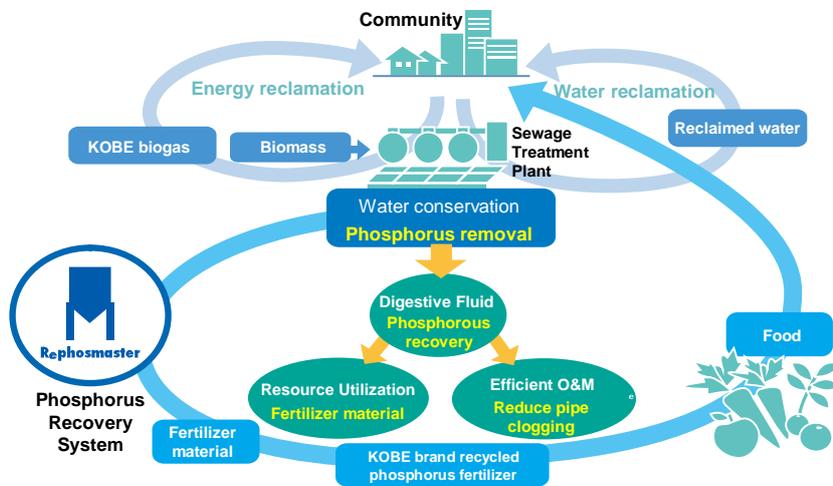
All Rights Reserved by Swing Corporation



8

## Project Scheme

Protect environment by phosphorus recovery from sewage



Rephosmaster is a registered trademark of Swing Corporation.

All Rights Reserved by Swing Corporation



## Industry – Government Collaboration

Establishing a resource recycling system through Industry-Government collaboration



3社の力で「資源再生の環」の構築とシステムの普及展開を実現します。

Establishing a resource recycling system and diffuse departure through industry-government collaboration.

All Rights Reserved by Swing Corporation



*"Creating" "Managing" "Innovating"*  
**Water System**

**水 ing**  
Swing Corporation

7-1B Konan1-chome, Minato-ku, Tokyo 108-8469, Japan  
Phone +81-3-6630-9000 Fax +81-3-5479-8590  
<http://www.swing-k.com/en>



All Rights Reserved by Swing Corporation

**水 ing** 11