

Zuiko and Superfaiths will collaborate for building sustainable production and consumption system of diapers



Critical Environment Issues of Used Diapers

- 1 Increased generation
- 2 Difficulties in reuse and recycling
- 3 High cost of treatment and potential threats to the environment



Disposable diapers are essential goods for infants and elderly peoples while generation of used diapers has been increasing year by year worldwide. With the aging of population, the increase in used diapers is to be further accelerated.



Once it is used, diaper becomes problematic to handle as waste due to its contamination by human excrement with high moisture content. Currently, we have no way but burning it by costly waste incinerators or disposing it at landfills.



The percentage of used diapers in overall municipal waste (waste from household and businesses) has reached in the range of 10 to 20 % by weight. The economic cost of used diaper treatment cannot be negligible for local economy while their potential impacts upon living environment become people's serious concern.

As our social responsibility, Zuiko and Superfaiths will contribute to realization of "Sustainable Society by accomplishing the Goal 12 of SDGs, "Responsible Production and Consumption".



Zuiko-Superfaiths Collaboration for Resource Circulation

Design and Production of diaper manufacturing line



Manufacturing/Distribution

Diaper Producers

Purchase/Consumption

Consumers

Collection

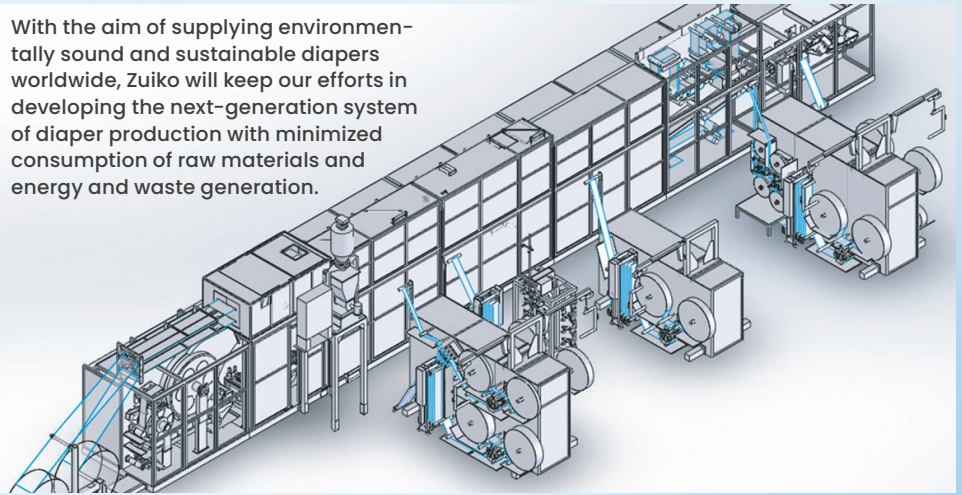
Local Govt
Private collector

Recycling

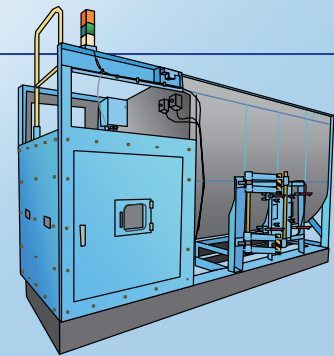
Super Faiths

Resource Circulation

With the aim of supplying environmentally sound and sustainable diapers worldwide, Zuiko will keep our efforts in developing the next-generation system of diaper production with minimized consumption of raw materials and energy and waste generation.



With this system (SFD System), the used diapers completely sealed by plastic bags are automatically shredded, fermented, dried and sterilized to produce high quality pellet fuels for easy handling and transportation.



SFD System



Pelletizer



Produced pellet fuel



Biomass Boiler



Hot Spa



Industrial Fuel



Greenhouse culture



Road heating

Produced pellets can be used as alternative fuel to wood pellets in biomass boilers and stoves for energy supply to various local facilities to realize "Local Production for Local Consumption".



SUSTAINABLE
DEVELOPMENT GOALS