

Day2

Title : 4. Public Private Partnership on Waste Management in Japan

(2) A Japanese Technology for Improvement of Solid Waste Management in Africa

Oil Temperature Decompression Drying method "Tempura method" for Food Waste recycling

~ Japanese and Moroccan Cases~

Speaker :

Mr. Eiji Nakazono, President, Eco-Stage Engineering Co., Ltd.

Summary

Our company provides food recycling facility by oil temperature decompression drying method called "Tempura method". The dryer of oil temperature decompression uses oil as the heating medium to rapidly and uniformly evaporate the moisture content of the waste by mixing the oil with the food waste and heating under a state of reduced pressure (a vacuum), which is referred to as cooking method of "Tempura", thus the dryer is so called "COOKER". The treated waste can be used as feed material for livestock.

This system was installed at one of the site in Tokyo Eco Town for recycling food waste collected from commercial facilities and food industries. It can treat 168ton/day of food waste. And the additional new plant, which can treat 170ton/day, was constructed last year.

We have conducted a feasibility survey for recycling of olive mill waste by use of oil temperature decompression dryer in Morocco supported by JICA. The system for the survey produces not only animal feed material but also second pressing olive oil (pomace oil) from olive mill waste. This can be one of the methods to solve the olive mill waste issue. The advantages of our system are; 1) high performance and fast for drying, 2) safe product for animal feed, 3) extraction of oil content from waste, and 4) production of high calorific value fuel.

We really believe that our system can contribute to settle organic waste issues in Africa based on the experience in Japan.

<Q&A>

Regarding searching partners in Africa, the companies should be able to find partners in Niger, which is a country with primarily 80% agriculture-based, thus plenty of resources are available related to the technologies presented during the session.

It was suggested by the moderator that, for the answers to the questions, one-on-one meeting could be held during the coffee break since the questions were quite specific.