

ANOR Newsletter from JORA dated 28/Dec, 2005

1. Event:

Our entry to Organic ORBIT's( Organic Recovery and Biological Treatment) calling for papers.(ORBIT is one of the most influential biomass association in Europe)

We have applied following 7 titles to ORBIT's symposium which will be held on Sept 13-15, 2006 at Weimar, Germany.

If you are interested, please refer to attached abstracts.

- (1) "Composting of metal contaminated bio-waste after removal of metals with organic acids of acidic bio-waste" by Dr. Mitsuo Chino, Professor of Akita Prefectural University, Chairperson of ANOR Steering Committee.
- (2) "Development of Two-Phase Process for Producing Hydrogen and Methane from Potato Processing Waste" by Dr. Tatuya Noike, Professor Nihon University.
- (3) "Application of Phospholipid fatty acid analysis to evaluate quality in livestock manure composts" by Mr. Kotaro Kato, Institutue for Agro-Microbiology.
- (4) "Deodorization of Air in a Compost Process by Carbonated Water" by Mr. Y. Hirano, Akita Prefectural University.
- (5) " Distribution of Zn and Cu to soil and crop from sewage sludge composts applied to the field" by Ms. S.Goto, Graduate school of Agricultural and Life Sciences, The University of Tokyo.
- (6) " Toward sustainable society Furano Area through biological recycling organic waste using bio-based compostable garbage bag" by Mr. Katsuyuki Sekine, Furano districe environmental hygiene center.
- (7) " A cogeneration system by the biomass boiler at the paper mill" by Mr. Eiji Ishikawa, Ebara corporation.

2. Information:

(1) Recent Biogas Situation in Germany

We had an opportunity to attend the symposium on biogas utilization in Germany which was held by our affiliated association on 18/Nov, 2005 and could get interesting information from Prof. Dr.-Ing. Herbert Märkl, Technische Universität Hamburg-Harburg.

He expects electrical energy share from biogas 17% in 2020( 0.9% in 2005) and it will be quite possible when we consider following data on it's government strong support for biogas utilization.

① Revenue from biogas electricity in Germany (law from July 2004)

Guaranteed base revenues in relation to plant capacity

0-150 kW                      11.5 cent per kWh(2004)

15-500kW                    9.9 cent per kWh(2004)

500-5000kW                8.9 cent per kWh(2004)

Revenue degression with 1.5% per year for all plants starting operation later than 2004.

Additional bonus for use of energy-plants: 6.0 cent /kWh

Additional bonus for use of heat:            2.0 cent/kWh

Additional bonus for modern technology: 2.0 cent/kWh

20 years of guarantee by law for stable revenues.

② Economic data of agricultural biogas plants.

Basic-data:

Installed electric power: 500kW

Investment:                    1,600,000 Euro

Input(manure, dung, energy-plants) 21,000 ton/year

Costs and Income

Costs:

Annuity                        190,000 Euro/year

Energy-plants                180,000

Personal                      70,000

Maintenance                65,000

Others                         50,000

Total                          555,000 Euro/year

Income:

Electric energy               640,000 Euro/year

Heat                            80,000

Total                          720,000 Euro/year

(2).Production of building materials made of “Kenaf” in Malaysia by a Japanese company.

Matsusita Denko, One of the group companies of “Panasonic”, one of the Japanese leading manufactures of electrical appliances has started production of kenaf board at

Kuantan, Malaysia from April, 2005.

This company has intended to produce building materials made of kenaf which is much more sustainable than Lauan which is usually more than one hundred years old. Kenaf grows diameter about 3cm and 3-4meters tall only for six months and can absorb carbon dioxide more efficiently than Lauan.