Community-based Technical Cooperation for Composting

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JPec Co., Ltd
Wakamatsu Environment Research Institute
Koji Takakura
In FY2000, we picked out the following keywords concerning the environment:

- Regional partnership
- Natural ecosystem
- Environmental conservation and protection
- Local production for local consumption
- Environmental efficiency
Background of our composting technology development

In order to expand our business into a new field, there is a need to master know-how and technology for establishing systems to recycle organic waste and resources.

- Cleaner Production in primary industries
- Future of urban agriculture
- Treatment and recycle of garbage
- Establishing the system of local production for local consumption

Taking an active part in “Wakamatsu Study Group on Environmentally Sustainable Agricultural System” comprised of industry, government, academia and residents
Background of our composting technology development -3

- Sound material-cycle society
- Local production for local consumption
- Safe food and healthy life
- Organic vegetables with less or no use of pesticides
- Soil management

Consumption

Separation & Collection
- Separating garbage
- Primary fermentation

Organic farmers
Efforts toward growing vegetables organically, with less or no use of pesticides

Composting
Producing high-quality compost

Sales

Circular flow
Coordination with local waste-management policies

System of a model project for composting

Creating an endless circular flow of garbage recycle
Even garbage can be recycled.

- Collecting
- Composting facility JPeC Environment and Greenery Center
- Primary treatment
- Treatment to let compost reach full maturity
- Composting to let compost reach full maturity
- Composting of garbage
- Storing in special containers
- Generation of garbage
- Treating garbage with Effective Microorganisms
- Utilization of compost
- Distribution
- Citizen's vegetable gardens
- Harvesting
- Applying compost

-Storing in special containers

-Special containers

-Households

-Even garbage can be recycled
Conditions for utilizing composting technology for business purposes in developing countries

Good relationship structure

- Community/Residents
- Compost center
- Local government
- NGO

Win-Win

Win-Win

Win-Win
Conditions for utilizing composting technology for business purposes in developing countries

Providing local residents with the systems sustainable for them and the technology that takes root in communities, instead of mere facilities and technical cooperation.

The point is taking approaches as a social entrepreneur, and making people “amazed” “impressed” and “smile”.
THANK YOU
Local government benefits

- Effective for achievement of local governmental objectives
- Decrease in solid waste final disposal costs
- Improvement in efficiency and earnings from compost centers
- Expansion of network and knowledge to other cities (domestically and internationally)
Community (Residents) Benefits

- Improvement of living and hygienic environments
- Use of surplus compost by households (Income from cultivating herbs)
- Improvement of community unity
NGO Benefits

- Effective achievement of missions
- Composting consulting requests
- Improvement of efficiency and earnings from composting centers
- Expansion of knowledge and network to other cities (domestic and international)
Win—Win (government - Community)

- Reduction of amount of solid waste via public participation
- Improvement of environmental awareness
- Cooperation with governmental policies
- Improvement of local governmental solid waste services
- City beautification
- Improvement of environment of compost centers
- Creation of employment
- Participation by socially disadvantaged persons
Win—Win (Government – NGO)

- Cooperation with governmental policies (planning proposals, implementation)
- Building a trusting relationship through the implementation of cooperative activities
- Complementing local governmental services (Direct relationship with residents, etc.)
Win—Win (NGO - Community)

- Creating a trusting relationship through the implementation of cooperative activities
- Sale of residents’ surplus compost
- Creation of employment
- Improvement of environment of compost centers