



WorldWideRecycling



WE
MAKE
WASTE
AN
ASSET



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WE MAKE WASTE AN ASSET

Countries around the world are becoming increasingly aware of the size and nature of the waste problem. Methods currently used, such as land filling and waste burning, strongly pollute the environment, contribute to global warming and expose people to health risks. A sustainable approach is essential to prevent waste from becoming a social and environmental burden to society.



World Wide Recycling BV provides public and private organizations with a sustainable concept for waste treatment. The 'Recycling Center Concept' focuses on reusing waste fractions for new products and electricity generation. When fully developed, the concept turns more than 80% of existing waste streams into raw materials for new products and offers new opportunities for economic and social development.

INTRODUCTION

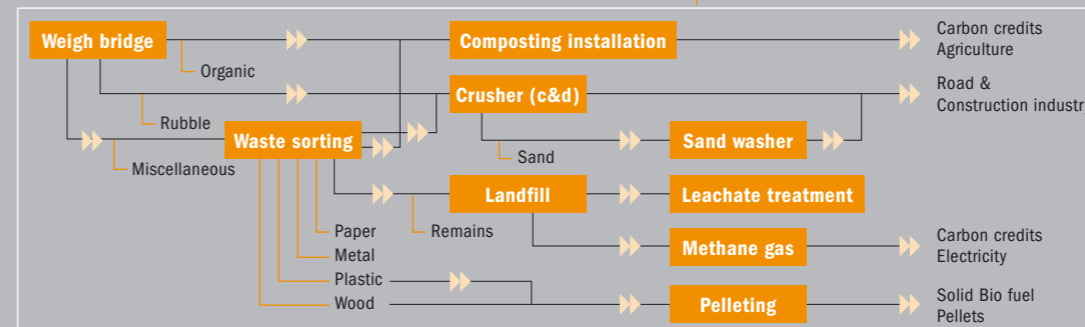
WWR assists organizations in identifying practical waste management opportunities and in taking the necessary steps towards sustainable waste management solutions, renewable energy solutions and the production of bio fuels from waste.



In a recycling center only a minor fraction of incoming waste is landfilled. Instead, the waste is treated in such a way that it becomes a supplier of raw materials. The waste management process infrastructure consists of three areas - Input, Process, Output - in which public and private parties play their respective roles. In the Recycling Center Concept all operations are established in such a way that they do not hinder the neighbouring community.

The process infrastructure

	Input	Technology / Process	Output
Responsible party	Public	Private	Public / Private
		WWR (see explanation below)	
Role definition	Waste Collection Adequate regulation Enforcement of regulation	Investment Operations Long term contracts Experience Know-how	Creation of market for secondary products Creation of quality standards



World Wide Recycling BV was established in 2003 by Mr Jan Boone, founder and major shareholder of the VAR. On a site of about 75 hectares near the cities of Apeldoorn and Deventer in the Netherlands, VAR operates a multi-installation recycling center: a crusher for construction and demolition waste (C&D), a sorting installation, a composting facility and a landfill. Over 1,100,000 tonnes of waste is processed every year, of which over 80% is recycled.

THE RECYCLING CENTER CONCEPT

World Wide Recycling BV is directly linked to the VAR and offers its experience and knowledge in waste treatment to public and private organizations around the world. By introducing the Recycling Center Concept, World Wide Recycling BV aims to contribute to a sustainable solution for the waste problem and to create new opportunities for economic and social development.

The center operates in good harmony with its neighbours and can add substantial value to the local economy through the creation of jobs. A well-designed infrastructure and proper logistics for the collection and delivery of waste are prerequisites for a successful Recycling Center. Therefore some form of cooperation between the public and private sector is necessary. A Center can start with a single installation, after which the concept may be fully developed over a period of years. An additional advantage of the Recycling Center Concept is the production of energy either by capturing the methane gas from the landfill and using it for energy production, or by converting the products of the recycling process into secondary fuel.

World Wide Recycling assists organizations in converting non-hazardous municipal and industrial waste into recycled materials and energy products. It uses in-house developed and proven technologies for a sustainable treatment of waste. WWR implements projects together with local partners. In addition it provides consultancy services.



WORLD WIDE RECYCLING AND CARBON CREDITS

The Kyoto Protocol, an international and legally binding agreement to reduce greenhouse gas emissions worldwide, came into force on February 16, 2005. World Wide Recycling has experience with 2 of the 3 existing mechanisms of the agreement i.e. the Clean Development Mechanism (CDM) and Joint Implementation (JI.) Both mechanisms offer organizations the opportunity to earn extra income by receiving Carbon Credits through greenhouse gas emission reduction. World Wide Recycling developed the AM0025 – the CDM approved method of avoiding emissions from organic waste through alternative waste treatment processes. It has registered two of its projects for landfill gas extraction and composting in Bangladesh. Together with its local



WWR  WWR Bio Fertilizer Bangladesh Ltd.

CONSULTANCY SERVICES

World Wide Recycling BV conducts assignments on composting, landfill gas extraction and the rehabilitation of landfills for international organizations such as the World Bank. It has extensive knowledge in formulating carbon credit projects under the Clean Development Mechanism (CDM) and is actively involved in developing CDM methodologies.

PROJECT IMPLEMENTATION

Through its resources, World Wide Recycling implements sustainable waste management projects itself, which are usually conducted in close cooperation with local counterpart organizations. The projects are conducted on a commercially sound basis and World Wide Recycling is involved in the technical, environmental and financial engineering of these projects.

partner Waste Concern, World Wide Recycling is rolling out a waste-to-compost project in Dhaka Bangladesh. The project will become operational at the beginning of 2008. Organic waste from households and markets in Dhaka City will be collected under a concession agreement with the local municipality, the Dhaka City Corporation (DCC). The waste will be converted into compost using forced aeration technology. The capacity of the plant will start at 50 metric tons of waste input per day and will increase to 700 metric tons per day

CASE BANGLADESH

over the next 3 years, spread over multiple locations. The ready compost will be sold as soil improver and part of it will be enriched with mineral nutrients and sold to plantations and local farmers. As an additional source of revenue the project will receive carbon credits as it is registered under the Clean Development Mechanism. CDM has made the project bankable.



WorldWideRecycling



World Wide Recycling is constantly searching for new projects in the area of waste management, renewable energy and the sustainable use of natural resources. Implemented projects comply with internationally accepted social and environmental regulations.

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