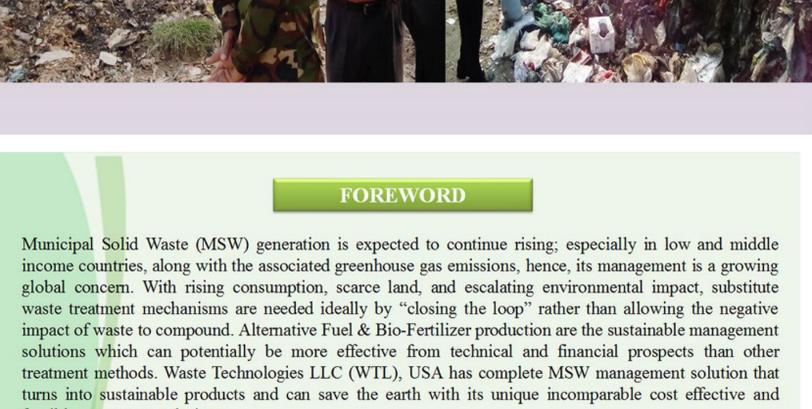


Cleaning Earth, Saving Environment

SUSTAINABLE MUNICIPAL SOLID WASTE PLANT

**Waste Technologies**



## FOREWORD

Municipal Solid Waste (MSW) generation is expected to continue to increase; especially in low and middle income countries, along with the associated greenhouse gas emissions, hence, its management is a growing global concern. With rising consumption, scarce land, and escalating environmental impact, substitute waste treatment mechanisms are needed ideally by "closing the loop" rather than allowing the negative impact of waste to compound. Alternative Fuel & Bio-Fertilizer production are the sustainable management solutions which can potentially be more effective from technical and financial prospects than other treatment methods. Waste Technologies LLC (WTL), USA has complete MSW management solution that turns into sustainable products and can save the earth with its unique incomparable cost effective and feasible permanent solutions.

## About WTL

- Waste Technologies LLC (WTL) is a USA based any kinds of waste management, research and development in technology and machinery manufacturing company, who are working on waste to energy and creating green jobs around the globe.
- The Founder, Chairman & CEO of the company; *Dr. Moimuddin Sarker*, PhD, MCIC, FICER along with his working partner Co-Chairman *Dr. Anjuman Shelly*, PhD is the leader and the entrepreneur who has formulated the concept of clean environment.
- WTL with its exceptional technological support along with its experienced and trained professional staff are committed to quality and excellence, understanding your needs as a company.
- WTL offers a reliable, flexible, integrated and cost-effective waste management solution & service that includes the assessment, collection and recycling of all solid waste streams appreciated by the environment scientists, activists and local governments of many countries.
- WTL provides its own high standard latest technologies, design & install machinery, build infrastructure, train local workforces and ensure quality control in every stage of the process.
- WTL stands for one stop complete waste management; the company works on Municipal Solid Waste (MSW) to Fuel, LPG, Biogas, Fertilizer and Electricity which issue Project Guarantee to its valued customers.
- We provided up to 98% conversion efficiency. Such a project will reduce the quantity of existing landfill waste and will result in the reduction of greenhouse gas emissions. Its activities will also reduce waste management costs associated with land acquisition for landfills and management.
- Improved sanitation will result in reduced human exposure to untreated waste and associated costs. It improves soil fertility and agricultural productivity. The use of organic fertilizer ensures food security and increase crop yields imply. It increases income for farmers and better livelihoods.
- WTL also providing its services as Consultant in building energy efficiency, pollution control, emission credit aggregation as well as the potential generation and commercialization of carbon credits derived from these projects. WTL is also engaged in providing consulting services and contract research in the environmental and life sciences. Our vision is to build a prosperous society, focusing environmental and economic activities and a commitment to build a safe and healthy environment for all of us.
- WTL introduce and implement projects with its own technologies & equipment having patent rights nationally & globally. The company do not sale other manufacturers machineries to upkeep its reputation and high integrity.

## ENVIRONMENT MANAGEMENT PLAN

We undertake following environment management plans:

- i. Emissions ii. Inert Waste iii. Other Waste iv. Leachate v. Odor.

## DURATION OF CONTRACT

It depends on the Mode of Operation as determined. As WTL provides Turnkey Projects with Guarantee, so the period of Contract must not be less than 15 years but not exceeding 30 years if the mode is D-B-O-O-T. For D-B-O-T method, WTL handovers the project after completion of Project Guarantee Period under contract.

## LAND FOR THE PLANT

The area of land depends on the size of the plant. However, The MSW plant requires 03 to 50 Acres of land for a sustainable environment friendly project. The City Corporation or the Municipality Authority or the Government must grant Lease of Land with nominal fees for a period of at least 20 to 30 years depending on understanding.

## PUBLIC PRIVATE PARTNERSHIP (PPP)

Waste Technologies LLC, USA accepts PPP modules to generate large projects on turnkey basis under PPP rules approved by the Government. Usually, WTL would prefer 30% payment as advance for infrastructural work of the project. But it could be negotiated before submission of proposal. Usually WTL is practicing the Equity Ratio for the Project under PPP financing is as below:  
Municipality/Government : 70%  
Waste Technologies LLC : 30%  
Other terms of PPP to be determined upon discussion.

## PRODUCT LINE

Our technologies & major end products from Municipal Solid Waste (MSW) are:

- Waste Plastic to Low Sulfur Fuel
- Waste Plastic to LPG
- Organic Solid Waste to Biogas
- Organic Solid Waste to Bio-Fertilizer/Compost
- Liquid Fuel & Gas to Electricity
- Recovered Materials from MSW Segregation Unit

### Products of the Plant

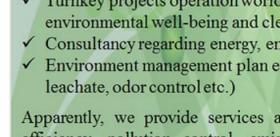
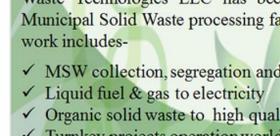
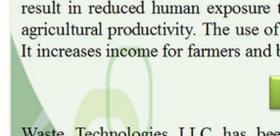


## FIELDS OF ACTIVITY

- Solid Waste Management and Resource Recovery
- Clinical & Hazardous Waste Management
- Policy on Total Waste Management
- Climate Change & Clean Development Mechanism
- Organic Farming
- Ecological Sanitation
- Renewable Energy

## STRUCTURING OF THE PROJECT

The scientific closure of the dumping ground, the project to be completed as per the proposed Waste Management Plan as designed by WTL covering Construction and Operations and Maintenance (O&M). The Construction and O&M contract is led by WTL or its appointed professional work partners having reputation and experience internationally. O&M estimates are drawn on size of the plant. A successful balanced Project which can be modified on local requirements and survey on Landfills.



## Sustainable MSW Project For Municipal Corporation



## SOCIO-ECONOMIC, HEALTH AND ENVIRONMENTAL IMPACT

WTL's activities would have accrued significant benefits to society. Its main activities are converting MSW to Fuel, Gas and Fertilizer/Compost (FGF). Such project will reduce the quantity of existing landfill waste and will result in the reduction of greenhouse gas emissions. Its activities will also reduce waste management costs associated with land acquisition for landfills and management. Improved sanitation will result in reduced human exposure to untreated waste and associated costs. It improves soil fertility and agricultural productivity. The use of organic fertilizer ensures food security and increase crop yields imply. It increases income for farmers and better livelihoods.

## SCOPE OF WORK

Waste Technologies LLC has been focusing on launching the decentralized model for establishing Municipal Solid Waste processing facilities in different cities across Asia, Africa and Europe. Our scope of work includes-

- ✓ MSW collection, segregation and conversion to high quality fuel and LPG
- ✓ Liquid fuel & gas to electricity
- ✓ Organic solid waste to high quality bio-fertilizer.
- ✓ Turnkey projects operation worldwide not only for better purpose, but also for social and environmental well-being and clean earth for better future.
- ✓ Consultancy regarding energy, environment and landfill management.
- ✓ Environment management plan execution for better future world (i.e., emissions, inert & other wastes, leachate, odor control etc.)

Apparently, we provide services as Researcher, Plant Implementer & Consultant in building energy efficiency, pollution control, emission credit aggregation as well as the potential generation and commercialization of carbon credits derived from our projects.

## Our Environment is in Hazard, So is our Economy. WTL's here for Solution & make a Difference.

## PROJECT BENEFITS

- Clean Urban Landscape
- Prevent Open Dumping
- Enhance Rural Soil Productivity
- Reduce Greenhouse Gas Emissions
- Produces Low Sulfur Fuel and Saving Foreign Currency
- Reduces Stress on Present Disposal Sites and Increases the Life of Existing Landfills
- Improving Efficiency of Composting and Fuel Efficiency Processes
- Long-Term Sustainability Solution
- Increasing Municipality Revenue
- Keeping Role in GDP to Extend Growth
- Saving Environment for a Healthy Generation
- Cleaning the City
- Creating Green Jobs

## FINANCING ENGINEERING

Waste Technologies LLC has pioneered the utilization of Carbon Credit advances for MSW projects. The projects are estimated to reduce Greenhouse Gases by million tons of Carbon Dioxide (CO<sub>2</sub>) over few years. The project demonstrates that the Carbon financing can catalyze MSW projects and enhance the financial viability.

## WHY SHOULD YOU CHOOSE US?

- ✓ We are one stop solution for Total Municipal Solid Waste (MSW) Management.
- ✓ We convert MSW to valuable products which represents MSW as current Goldmines & are working strongly on Integrated Municipal Solid Waste Processing for cleaner world.
- ✓ Around 360 million metric tons of waste plastics are produced worldwide of which about 10% are recycled & 40% are land filled. We can convert 1kg of waste plastic to 1.3 liters of Low Sulfur Diesel and many more from other portions of MSW.
- ✓ Our main activity of converting MSW to Fuel, Gas and Fertilizer (FGF) will reduce waste management cost, the quantity of existing landfill waste and will result in the reduction of greenhouse gas emissions.
- ✓ We manufacture & provide heavy equipment of waste plastic to fuel processing around the globe.
- ✓ Our mature teams, including designing, manufacturing, and sales are always at your service. We use latest technologies and upgrade the system to enhance the experience of the users.
- ✓ Improved sanitation will result in reduced human exposure to untreated waste and associated costs.
- ✓ Improved soil fertility and agricultural productivity from the use of our bio-fertilizer will provide noteworthy implications for farmers' livelihoods and food security.

You can send us an inquiry if you have the interest in waste plastic recycling and municipal solid waste plant cost, project guarantee, implementation of project period, after sales or about the quality of end products. No matter what kind of plant you choose, either the Waste Plastic to Fuel or the MSW to Fuel, Gas & Fertilizer (FGF) plant or both, please call or email us at any day, any time.

## OPERATION MODE

Waste Technologies LLC, USA offers wide scope of operational mode. The interested client can get engaged with-

- Design - Build - Own - Operate - Transfer (D-B-O-O-T)
- Design - Build - Operate - Transfer (D-B-O-T)
- Design - Build - Own - Operate (D-B-O-O)

*Let's Work Hand to Hand,  
Be the Pioneers to Save the Earth for Future Generation, Floras & Faunas.*

**Thank You!**

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