About Us!

  Earth Recycler Private Limited otherwise known as Earth Recycler is a pioneer in providing integrated environmental friendly services, solutions, strongly committed to protecting the environment by improving the communities in which we work and live. Our recycling initiatives are custom designed for various sectors from corporate organizations, educational institutions and residential apartments to the community at large. In line with our commitment to the environment, we provide turnkey Services like solid waste management, Waste water Management, Processing of organic waste into Manure or into Energy, Solar Energy and environmental friendly, recycled products.

Earth Recycler is equipped with a team of professionals who have proven expertise in developing sustainable and cost effective solutions for environmentally concerned clients.

Objective

   Our Primary objective is to keep the environment clean and hygienic, we redefine the concept of solid waste management through professional, Modern, User Friendly and systematic disposal processes to ensure that up to 90 % of the garbage is reused, recycled, hassle free/safe disposal to its destination and purpose.

Why Earth Recycler

 Our environmental friendly services and solutions are tailor-made and durable, available for long-term use.  We strive for efficiency, cost reduction, highest Return on investment and investment security, and less risk: Its all about success!

Sliders

**Slider 1:**

A simpler way to recycle more.

We make recycling really easier and User Friendly by leading the way in mixed recycling.

You don’t have to break your heads on understanding the material and managing it by segregating it into 10 different types.

Mixed recycling minimizes the need to sort materials. That lets people put their acceptable recyclables in one bin and leaves the sorting process to us.

You just have to put all acceptable wastes such as paper, plastic, metal, soiled food containers, Used paper cups and in some areas, glass materials etc etc into a single container\*.

We just made it as simple as possible.

**Slider 2:**

We understood from environmentally concerned people that it’s difficult to convince others in their community, Institution, Commercial Buildings etc etc. to segregate the waste before disposal.

Keeping this in mind we developed a unique waste disposal system which most of them found very comfortable and easier. We proved them that segregation is not required!!

Get In touch with us to know more.

**Slider 3:**

Generally Upto 95% of waste generated that is generated at the events are recyclable in nature, We play role of catalyst to put the waste management system on place for Cleaning venue, collection of waste and secondary and tertiary level segregation of collected waste at our segregation yard. Once the above processes are completed, we submit the detailed report on how our recycling initiative has prevented environmental impact by the saving the natural resources.

**Slider 4:**

Business and community leaders alike are concerned about how to balance their environmental goals, reduce carbon foot prints with their budgetary ones. Mixed recycling from Waste Management provides an efficient, sustainable solution to help achieve both.

**Slider 5:**

We Design, Build, Operate and maintain Vermicomposting Plants. We are Pioneer and a leading company in India to offer most advanced and efficient Vermi-composting solutions.

Most of the people who already tried composting failed due to improper composition of enzymes and earthworms.

We have expertise in offering efficient composting solutions with enzymes for processing as well as to accelerate the process of composting organic waste into manure for House hold and industrial establishments.

**Slider :6**

Earth Recycler is your trusted business partner when it comes to establishing or developing biogas plants for safe, highly profitable and environmentally friendly energy production.

Our biogas plants size starts from as small as .5 cubic meter in size for just Rs.9999/-

Return on Investment guaranteed for 12 months.

**Slider 7:**

Our services include design, build, operate, maintain, upgrade and manage water and wastewater treatment facilities, Water Recycle & Reclamation Projects.

**Services:**

**1.Recycling**

**2. Waste Management**

**3.Vermicomposting**

**4.Biogas**

**5.Water and waste water management**

**6. Products**

**1.Recycling**

<https://www.wm.com/recycling-services/home.jsp#recycle-bucket>

<http://www.dulsco.com/recyclingservices>

**2. Waste Management**

Earth Recycler offers several Solid Waste Management (SWM) services such as waste collection, processing, interim storage and disposal of Solid waste. About 90 per cent of the Solid wastes that are generally sent to the Landfills are recyclable or reusable in nature. We at Earth recycler leave no stone unturned in identifying such recyclable waste in order to recover or reuse, process, recycle them.

Earth Recycler environment program are very comprehensive as we offer complete solutions in all our areas of operation. We are the leading environmental company in waste management and recycling services in Chennai. Waste is something that people wish to get rid of and we help them to do so in safe and best manner. We provide most sustainable, efficient and environmental-friendly solutions. Our complete end-to-end recycling solutions includes setting up of zero waste zones at the clients place, regular pick up of the waste from the client’s place to our facility for cases where space is a constraint.

The methods of managing solid waste have changed significantly over the years. In the past, managing solid waste was focused and limited to only collection and disposal. Today there is a varied focus on solid waste management, including source reduction of waste, recycling, landscape waste management. Solid waste also include multitude of special items including electronic waste, white goods, fluorescent lamps, and construction and demolition debris. The goal of integrated Solid waste management is to minimize to the extent possible and practical, the amount of waste that is ultimately disposed (to the landfill). Earth Recycler has the expertise not only in collecting solid waste in the safe manner, but also in processing them and marketing a wide range of recycled materials.

Below are the few of our wastes processing, recycling services

* Paper packaging, newspapers, cardboards, Plastics, Metals etc are recycled.
* Biological or Organic waste becomes biogas or compost.
* Sludge is decomposed to generate biogas or compost.
* Hazardous waste is recovered, burned or deposited in landfills.
* Wooden waste is refurnished and reused
* E waste is refurbished and reused

Our vision is to be a leading force in the transition to a safe environment by creating sustainable zero waste zones. Our goal is to always offer the best and most modern services with quality, Sustainability keeping customer’s satisfaction as of paramount importance. We conduct our operations with a clear focus on minimizing environmental impact, carbon footprints.

Waste is no longer dumped randomly as could be the case in olden days. Only waste that cannot be reused or recycled ends up in a landfill. The waste is carefully analyzed and selected for the landfills; Earth recycler claims that waste generated in India are up to 90% recyclable.

We offer complete waste management solutions to:

* Educational Institutions
* Corporate establishments
* Hotels/Restaurants
* Shopping Malls, Plazas
* Theatres, Multiplexes
* Residential Apartments
* Municipalities
* Industries
* Other public sector operations

Services we provide on Solid Waste Management are:

* Collection, Segregation and transportation of all types of waste and recyclable materials
* Environment-friendly waste management services
* We also set up Recycling units at the clients place
* Installation, commissioning of Biogas Plants or composting Units to process organic waste and sewage sludge at the Source
* Shredding and recycling of confidential documents
* Solid waste management’s Know-how – education and training, consultation and study visits
* Refurbishing, recycling services of E-waste for reuse
* Other associated, allied services

Having strong interest in highest level of customer satisfaction with our quality waste management services, we believe we are uniquely positioned to be of best service to your waste management needs. Please contact us today.

**3.Vermicomposting**

Ever imagined converting your food wastes, vegetable peels and seeds (Organic wastes) into a new source of energy (Organic Fertilizers). Switch to a new lifestyle that is equipped with recycling of waste in order to protect the environment. With Vermi-composting food and vegetables wastes are composted with the help of worms(especially earthworms) to make vermicasts, fertilizers. (Learn more)

Vermicompost

Vermicompost is the product or process of [composting](http://en.wikipedia.org/wiki/Composting) using various [worms](http://en.wikipedia.org/wiki/Worm), usually [red wigglers](http://en.wikipedia.org/wiki/Eisenia_foetida), [white worms](http://en.wikipedia.org/wiki/Enchytraeus_buchholzi), and other [earthworms](http://en.wikipedia.org/wiki/Earthworm) to create a[heterogeneous](http://en.wikipedia.org/wiki/Heterogeneous) mixture of decomposing vegetable or food waste, bedding materials, and vermicast. Vermicast, also called worm castings, worm humus or worm manure, is the end-product of the breakdown of [organic matter](http://en.wikipedia.org/wiki/Organic_matter) by an [earthworm](http://en.wikipedia.org/wiki/Earthworm). These castings have been shown to contain reduced levels of contaminants and a higher saturation of nutrients than do organic materials before vermicomposting.

Containing water-soluble nutrients, vermicompost is an excellent, nutrient-rich [organic fertilizer](http://en.wikipedia.org/wiki/Organic_fertilizer) and soil conditioner. This process of producing vermicompost is called vermicomposting.

Benefits

**Soil**

* Improves soil aeration
* Enriches soil with micro-organisms (adding [enzymes](http://en.wikipedia.org/wiki/Enzymes) such as [phosphatase](http://en.wikipedia.org/wiki/Phosphatase" \t "_blank" \o "Phosphatase) and [cellulase](http://en.wikipedia.org/wiki/Cellulase" \t "_blank" \o "Cellulase))
* Microbial activity in worm castings is 10 to 20 times higher than in the soil and organic matter that the worm ingests
* Attracts deep-burrowing earthworms already present in the soil
* Improves water holding capacity

**Plant growth**

* Enhances germination, plant growth, and crop yield
* Improves root growth and structure
* Enriches soil with micro-organisms (adding [plant hormones](http://en.wikipedia.org/wiki/Plant_hormone) such as [auxins](http://en.wikipedia.org/wiki/Auxins" \t "_blank" \o "Auxins) and [gibberellic acid](http://en.wikipedia.org/wiki/Gibberellic_acid" \t "_blank" \o "Gibberellic acid))

**Economic**

* Biowastes conversion reduces waste flow to [landfills](http://en.wikipedia.org/wiki/Landfill)
* Elimination of biowastes from the waste stream reduces contamination of other recyclables collected in a single bin (a common problem in communities practicing [single-stream recycling](http://en.wikipedia.org/wiki/Materials_recovery_facility))
* Creates low-skill jobs at local level
* Low capital investment and relatively simple technologies make vermicomposting practical for less-developed agricultural regions

**Environmental**

* Helps to close the "[metabolic gap](http://en.wikipedia.org/wiki/Metabolic_rift)" through recycling waste on-site
* Large systems often use temperature control and mechanized harvesting, however other equipment is relatively simple and does not wear out quickly
* Production reduces [greenhouse gas](http://en.wikipedia.org/wiki/Greenhouse_gas) emissions such as [methane](http://en.wikipedia.org/wiki/Methane) and [nitric oxide](http://en.wikipedia.org/wiki/Nitric_oxide) (produced in landfills or [incinerators](http://en.wikipedia.org/wiki/Incinerator) when not composted or through [methane harvest](http://en.wikipedia.org/wiki/Methane_harvest))

**As fertilizer**

Vermicompost can be mixed directly into the soil, or [steeped](http://en.wikipedia.org/wiki/Steep) in water and made into a [worm tea](http://en.wikipedia.org/wiki/Compost_tea) by mixing some vermicompost in water, bubbling in oxygen with a small air [pump](http://en.wikipedia.org/wiki/Pump), and steeping for a number of hours or days.

The microbial activity of the compost is greater if it is aerated during this period. The resulting liquid is used as a fertilizer or sprayed on the plants.

The dark brown waste liquid, or [leachate](http://en.wikipedia.org/wiki/Leachate" \t "_blank" \o "Leachate), that drains into the bottom of some vermicomposting systems as water-rich foods break down, is best applied back to the bin when added moisture is needed due to the possibility of [phytotoxin](http://en.wikipedia.org/wiki/Phytotoxin" \t "_blank" \o "Phytotoxin) content and organic acids that may be toxic to plants.

The pH, nutrient, and microbial content of these fertilizers vary upon the inputs fed to worms. Pulverized limestone, or calcium carbonate can be added to the system to raise the pH.

**4.Biogas**

Earth Recycler is your trusted business partner when it comes to establish or developing of biogas plants for safe, highly profitable and environmentally friendly energy production.   
We stand with best understanding of the entire process, from the disposal of waste and other raw materials, through processing, to delivery of the final product.

**Global environmental benefits of biogas technology**

* With anaerobic digestion, a renewable source of energy is captured, which has an important climatic twin effect
* The use of renewable energy reduces the CO2-emissions through a reduction of the demand for fossil fuels.
* At the same time, by capturing and containing uncontrolled methane emissions, the second most important greenhouse gas is reduced

(The reduction of 1 kg methane is equivalent to the reduction of 25 kg CO2)

**Earth Recycler Biogas Plants**

Earth Recycler offers durable, reliable and complete process for sustainable production of biogas. The initial investment can yield significant long-term savings, in addition to being environmentally responsible and committed. Biogas is derived as a byproduct of agricultural produce, wastes from food processing kitchens, sewage sludge. Our biogas plants size starts from as small as .5 cubic meter in size.

By tapping into biogas resources with Earth Recycler’s proven technology, Biogas projects result in the:

* Reduction of carbon emissions through the destruction of naturally occurring methane
* Elimination of odor and pests issues that are caused by the decomposition of organic material
* Transformation of organic wastes into high quality fertilizer. The fertilizer which comes from a bio-gas plant contains three times more nitrogenthan the best compost made through open air digestion
* Improvement of hygienic conditions through reduction of breeding of pathogens, worms and flies.
* Complete digestion of sludge killing more pathogens

The following are the principal organisms that are killed in biogas plants:

* Typhoid
* Paratyphoid
* Cholera and dysentery bacteria (in one or two weeks)
* Hookworm and bilharzias (in three weeks)
* Tapeworm and roundworm die completely when the fermented slurry is dried in the sun

**How it works ?**

Consisting primarily of methane and carbon dioxide, biogas is produced through the anaerobic decomposition of organic waste. Instead of allowing uncontrolled decomposition of these wastes and the release of gases into the atmosphere, they are contained in an oxygen-deprived environment such as a covered lagoon or aboveground FRP tank. From there, methane is extracted and burned to generate electricity or heat.

**Environmental advantages through protection of forests, soil, water and air**.

The widespread production and utilization of biogas is expected to make a substantial

Contribution to soil protection and amelioration. First, biogas could increasingly replace LPG Cylinder & can take part load of power Generation Second; biogas systems yield more and better fertilizer. As a result, more fodder becomes available for domestic animals. This, in turn, can lessen the danger of soil erosion attributable to overgrazing.

* Bio-fertilizers are cost effective and eco-friendly alternative to chemical fertilizers.
* They provide a sustainable source for nutrients and healthy soils**.** Each biogas plant produces about five tons of bio-fertilizer annually, which can replace chemical fertilizer**.** *(*According to the ICAR paper (report issued by the Indian Council of Agricultural Research, New Delhi)

Advantages of Earth Recycler Biogas Plants:

* Earth Recycler Biogas plants helps in better digestion and circulation of the slurry inside the digester
* Avoids settling of the solids inside the digester
* Designed to handle all types of biodegradable waste including fruit & vegetable peels, process & plate waste, used kitchen oil/grease, tissue papers & garden wastes
* Designed for continuous and discontinuous feeding of waste ensuring maximum degradation of volatile solids
* Avoidance of heat losses
* No fresh water is required to treat the waste

**5.Water and waste water management:**

 Our wastevc water management plants are modular and our expertise in the field has achieved custom-built products. While choosing a wastewater treatment system, it is important to be aware about the operation of the system and its life cycle. Our waste water management and solutions are tailor-made and durable, available for long-term use.  We strive for efficiency, cost reduction, highest Return on investment and investment security, and less risk: Its all about success!

Our services include everything required to design, build, operate, maintain, upgrade and manage water and wastewater treatment facilities, Water Recycle & Reclamation Projects

We regard our endeavors aimed at the conservation and ecological utilization of the world’s most valuable resource as both a daily challenge and a social responsibility. Moreover, we believe that these activities constitute a major investment in a future life that will be worth living.  
  
We offer sustained solutions for customer needs through a comprehensive range of services, innovative and economical technologies, such as: 

* Complete water management with zero liquid discharge
* Industrial Wastewater /Effluent Treatment Plants
* Sewage Treatment Plants
* Raw Water Treatment Plants
* Demineralization Plants
* Condensate Polishing Plants
* Seawater Desalination Plants
* Operation and Maintenance

**Greenvironment Innovation Marketing India Private Limited an IIT incubated company is our Technology partner for water management**

**6. Products**

**Vermicompost**

**Earthworms**

**Will be continued…**