

In order to protect Global Environment. Items which Earth Recycle Co., Ltd. is able to do as follows:

Cope with the following subjects for Resources Recycling Smart City

Contributing to solving issues such as Growing plastic wastes, Global warming, Ocean plastic wastes, Resolving solid wastes during disasters.



Earth Recycle Co., Ltd.

EARTH RECYCLE

Earth Recycle Co., Ltd. *https://www.earthrecycle.net/*

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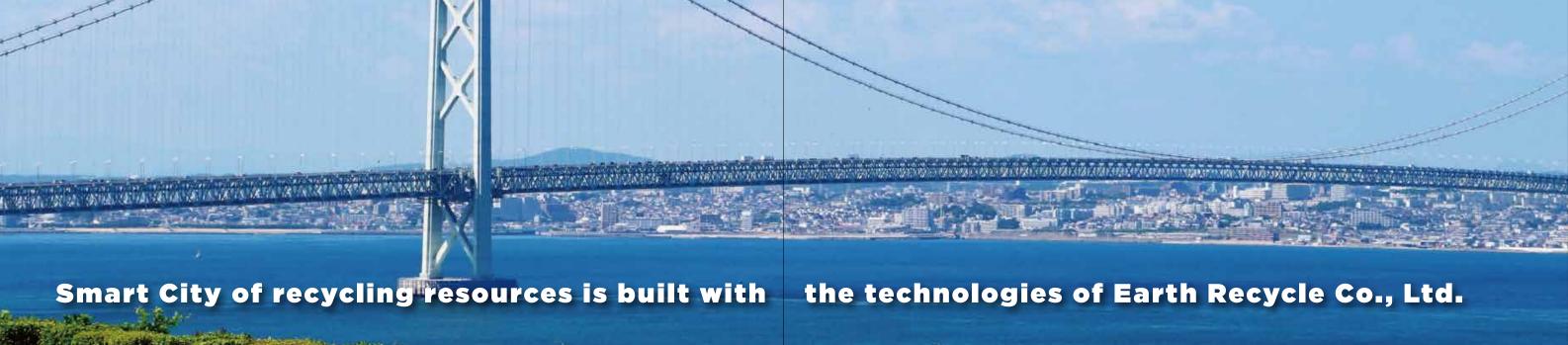
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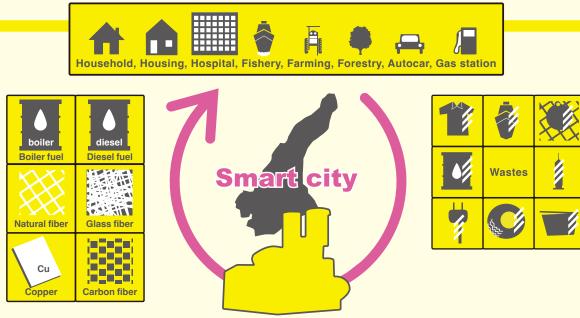
•Established April 16, 1997

•Business Developments, Engineering, Sales, Consulting and Testing for Various Recycle contents Facilities.

- Facilities of Heat de-composition, Distillation and Solvent extraction of Waste plastics, Waste tires and Waste lubricant oil.
- Separation equipment for Mixed waste plastics and Composite materials
- Diesel oil production facility from Biomass materials such as Palm, Jatropha and Waste vegetable oil
- Production facilities of Cellulose, Lignin and Bamboo vinegar from Biomass such as Bamboos and Cedars
- Production of experiment equipment for industrial high school



Smart City of recycling resources is widely built among the following fields

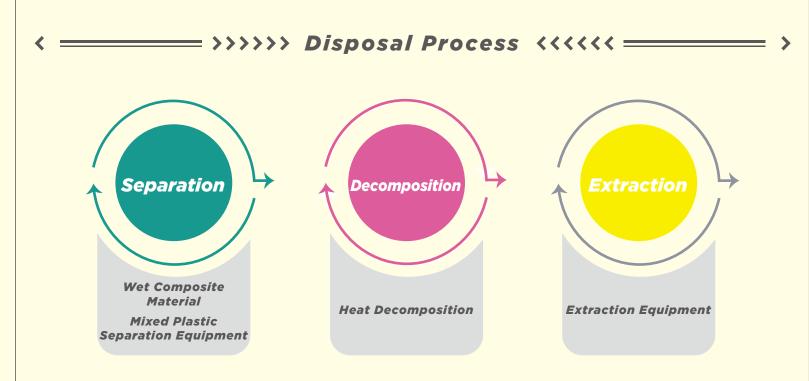


Separation equipment of multifunctional composite materials and heat de-composite equipment provided by Earth Recycle Co., Ltd. contribute to the recycling of various wastes.

The following issues are greatly improved with newly technologies of Earth Recycle Co., Ltd.

- Global Warming
- ✓ Ocean Wastes
- ✓ Landfilling of Wastes
- Energy Problems
- Carbon Dioxide Emission
- Solid Wates during Disaster

The greatest features of wet separation system are possible to cope with wide range of wastes, and making a significant contribution to the establishment of original recycling society, saving resources, and global warming with good quality of the separated recycled products.



The combination of composite materials separating equipment and heat de-composition equipment reform smartly recycling in municipalities and general factories.



Separable Materials =

Composite materials separating equipment of Earth Recycle Co., Ltd. extracts efficiently recyclable resources from wastes. In the past, 100 wastes were confirmed to be recyclable by the wet separating system test. Separation, Heats de-composition, Solvent extraction tests are still available for a fee. Especially, Separation test equipment has been well maintained in 2020.



Waste Carbon Fiber → Dissociated Carbon Fiber



 $PTP \rightarrow AL.PVC$



FRP Composite Materials FRP充填材 FRPM ガラス

FRP Resin \rightarrow FRP Dissolved Liquid. Glass Fiber. Filler



Drain Hose → PS Polyester, Aramid Fiber



Tire \rightarrow Wire, Synthetic Rubber, Natural Rubber



Air Bag → Silicon, Recovery Nylon

Wastes		Separate product		
Autocar	PP (including talc 15%) + Epidermis (PVC + PP Foam)	PVC	PP Foam + task	
Autocar	PP + Epidermis (PVC + Urethane)	PP	PVC	
Autocar	Autocar Window Frame (PVC + Metal)	PVC	Metal	
Autocar	PP + Epidermis (Hide + Urethane)	PP	Epidermis	
Electric Cable	Waste Electric Cable	Copper	Resin	Paper and Others
De -Chlorination PVC	Full Hard PVC	Desalinized PVC	-	 -
Carpe	Carpet	PE	! ! ! —	' ' ' —
Cellular Phone	Waste Cellular phone	Resin	Metal	Crystalline Liquid and Others
PVC Composite	PVC Wall Paper	PVC Resin	Separation Paper	
Clothing	Polyester 62% · Rayon33% · Cotton 5%	Rayon	Cotton	-
Aluminum Mixture	Aluminum · PET · PE	Aluminum	¦ PE	
Substrate	Waste Substrate	Metal and Nonferrous Metal	Parts · Resin	Glass Cloth
{} i⊟■ Cigarette	Cigarette Stump	Recovery Acetate	Solid (Paper•Leaf etc.)	·
Sunlight Panel	Sunlight Panel	Backing Sheet	Aluminum	Glass · Resin



Local production for local consumption, Separation of disposal conditions with coarse crushing for decentralized processing are mild.

Great the separate technologies of Earth Recycle Co., Ltd.

Separating and Recycling of Substrate, Crystalline liquid, IC chip, Building materials.

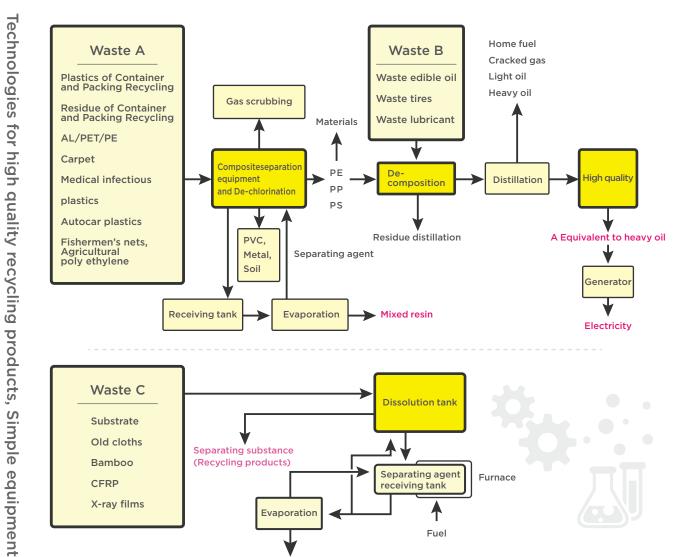


Heat De-composition and High quality de-composing oil

Proposal the facilities that can be scaled up is prepared with experienced heat de-composition technologies.

Before Heat de-composition			After Heat de-composition
Waste plastics	Waste plastics + Garbage	\longrightarrow	Heat decomposing oil
Drifted wastes	Buoy + Foam stay roll	\longrightarrow	Heat decomposing oil
Fishermen's nets	Fishermen's nets	\longrightarrow	Fishermen's nets heat decomposing oil
Coal + α	Coal	\longrightarrow	Coal blend heat decomposing oil
Waste edible oil	Waste edible oil	\longrightarrow	Heat decomposing oil
Residues of Container and recycling packing	Residues of Containers and packing recycling	\longrightarrow	Heat decomposing oil
Medical wastes	Medical wastes	\longrightarrow	Heat decomposing oil
Jatropha	Jatropha	\longrightarrow	Bio fuel · Heat decomposing residues
Palm FFB	Palm FFB	\longrightarrow	Bio fuel · Activated carbon

Disposal process =



Resin

%Pink words indicate recycling products

Fue



▲ Composite materials separation equipment (Photo: main part)



▲ High quality heat de-composition oil equipment

Other items for sale =

Earth Recycle Co., Ltd. is selling online. See homepage for detail.



3Bamboo vinegar



▲ Composite materials separation equipment (Photo: main part)



▲ Heat de-composition equipment for 300kg



▲ Waste plastics liquefaction equipment

* Contact Earth Recycle Co., Ltd. for detail

Domestic Carbon fiber





(4)Carbon fiber sheets **5**Carbon fiber chopped **6**Carbon fiber milled