Waste Plastic Recycling Project Feasibility Report



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Project Prospect

Overview

Project Prospect Analysis

Development of industrial has brought social developing, but also bring problems.

On the one hand, the rapid demand growth drives economy; On the other hand, it also creat huge resource consumption and environmental pollution. Faced with the gradual depletion of resources and worsening environment, it is necessary to find ways protecting environment and developing economy. Circular economy will be good for solving this problem. It requires the economy active principal should be "reduction, harmlessness, recycling, reuse and recycling" for recycling waste materials. Along with the rapid development of automobile industry, new problem can not be ignored, that is the management and treatment of waste plastic. Waste plastic have strong heat resistance, mechanical resistance and degradation resistance, couldn't be naturally digested for decades. If they are discarded in the natural environment, they will not only occupy land, waste resources, but also creat new 'white pollution'. If incinerate it, will pollute environment seriously; if it is simply treated and then loaded for shipping, also have potential safe hazard; if it is processed and produced by the old way, will not only create pollution but also have very low utilization rate. It has become indisputable reality to realize circular economy and sustainable development in waste plastic recycle industry.

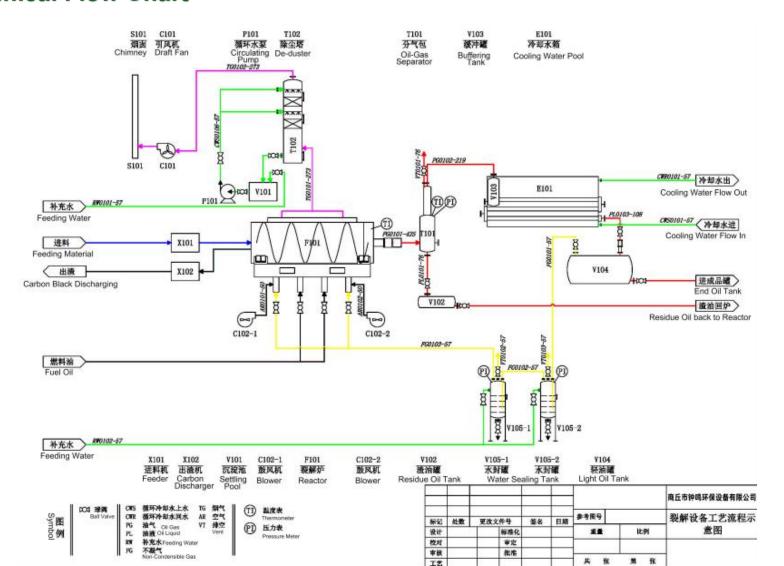
Waste Plastic Pyrolysis Equipment will solve this problem very well.



Technical Flow Chart

Overview

Technical Flow Chart



Overview

Technical Flow Chart Description

1st: Feeding--Waste Plastic feed in reactor via auto feeder(Both packed plastic and crushed plastic available);

2nd: Heating--Use Pyrolysis oil or natural gas as heating fuel, pyrolysis oil gas go to condenser system for liquefaction when heating up to 260°C, then oil flow into middle oil tank.

3rd: Non-condensible Gas--Under normal pressure and temperature, uncondensible gas will be fully recovery to be used as heating fuel for furnace, can save most of heating fuel.

4th: De-dusting system--After heating, all of the dusts will be purified and processed via professional Industry processing system, ensure final emission achieve dust emission standard.

5th: Carbon Black Discharging--Auto Discharged carbon will be blowed to carbon black warehouse via vaccum system, ensure no any dust fly outside.



Waste Analysis and Treatment

Waste Analysis

Heating
Process(Natural
Gas/Pyrolysis Oil)
create the flue gas will
go to professional gas
treatment system via
flue extraction System.

Need circulating water for cool down the hot oil gas,water is recycling, only evaporation, no loss and no waste water created. Noise mainly come from speed reducer, draft fan,blowers,water pumps and oil pums,all working noise less than 50db. Solid waste can also be named as waste slag, same as carbon back, has high recycling value, can be used as making rubber production, cable skins, tyre and ohter plastic productions.





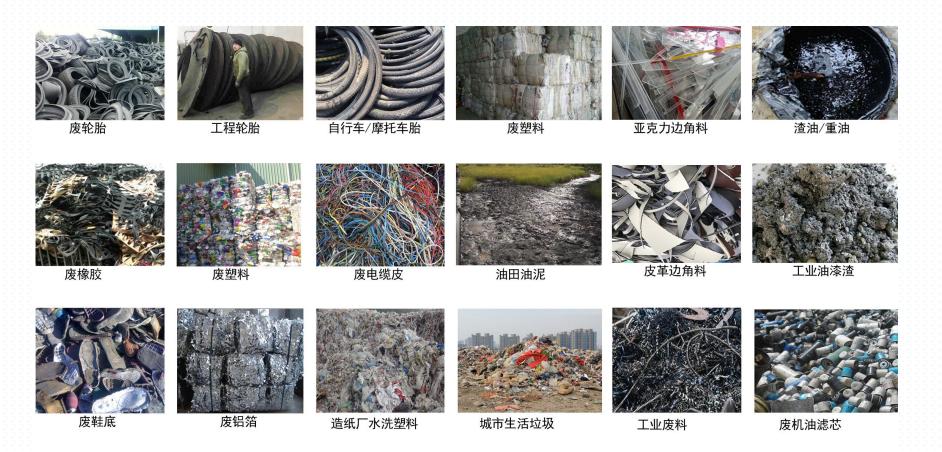






Raw Material to be Processed

Applicable Raw Material





End Production Yield and Usage

End Production Yield and Usage



Used as Industry
Boiler Fuel,can be
used in power
plant,ceramic plant,
glass manufacturers
and other industry.



50%

Widely used, can be used as heating fuel after making carbon briquetts



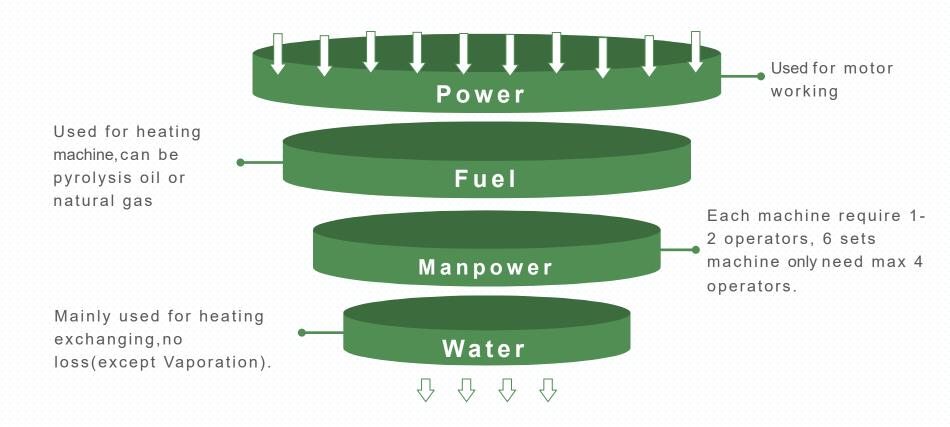
7%

Used as heating fuel, before emission, treated by professional gas treatment system to achieve local emission standard.



Energy Consumption

Energy Consumption



Reference: Averagly process per ton waste tyre, manufacture cost will be around USD 17.00



Economic Benefit Analysis

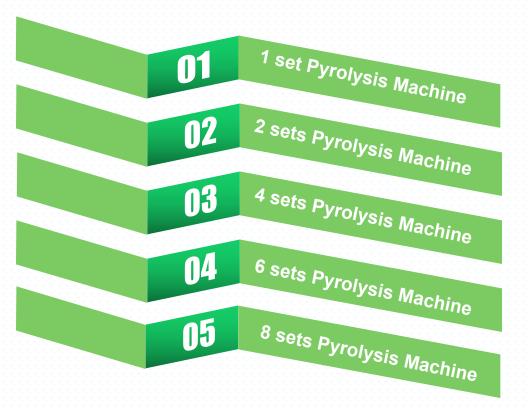
Economic-Benefit Analysis(20000 tons per year capacity)

No.	Item Name	6 sets 12TPD capacity
1	Raw Material	900 RMB/T
2	Raw Material	70tons*900RMB/T=63000RMB
3	Labor Cost	7persons*2shifts*250RMB/D=3500RMB
4	Fuel Cost	Pyrolysis Oil 800 kgs (exclude non-condensible gas)
5	Electricity	Around 3000 RMB
6	Daily Cost	69,500.00 RMB
7	Pyrolysis Oil Price	2600 RMB/T
8	End Production (Oil)	70tons*40%=28 tons(minus heating fuel 800kg) , 27.2tons*2600RMB/T=70720 RMB
9	End Production(Carbon Black)	70tons*50%=35tons*280RMB/ton=9800RMB
11	Daily Output	80,520.00RMB
12	Daily Profit	80,520.00 RMB-69,500.00 RMB=11,020.00RMB
13	Monthly Profit	11,020.00 RMB*25 day/month=275,500.00
14	Yealy Proft (10 months)	Around 2,755,000.00 RMB



Project Covering Area

Covering Area





Device Area 300㎡(30m*10m*≧6米) Plus Warehouse for raw material and end production totally around 800㎡



Device Area 450㎡(30m*15m*≧6米)Plus Warehouse for raw material and end production totally around 1500㎡



Device Area 900㎡(30m*30m*≧6米)Plus Warehouse for raw material and end production totally around 2000㎡



Device Area 1800㎡(60m*30m*≧6米) Plus Warehouse for raw material and end production totally around 4000㎡



Device Area 2400㎡(80m*30m*≧6米) Plus Warehouse for raw material and end production totally around 5000㎡



Choose Us

Choose Us

10 Years Experience

Our company has 10 years R&D, manufacturing and service experience served thousands customers, updating our technology according customer running practical feedback, now has 8th generation oroduction, updating technology for better serving customers, meet customer requirement while apply government license.

Eco-Friendly Environmental

Machine equip with professional and advanced gas treatment system, ensure emission meet national emission standard; Actively respond government slogan "green water and green mountains are golden and silver", no pollution to the environment.

After-Sale Service

Once Machine arrive to buyer site, we send technician to buyer site for free installation, commissioning and training. Technician couldn't leave buyer site until buyer fully operating the machine and maintenance skills..

Qualitive Product

Technology department in charge of the machine design and production guidance. Manufacture department in charge of producing according technology department drawings and engineer on-site guidance.QC department in charge of inspection to ensure that each part is qualified for delivery.

Honor

Company has got CE certification, ISO9000 and ISO14001, also got the honor of 'Qualified products of National Standard'

Export Productioon

Since 2008, our production has been exported to Malaysia, Thailand, Korea, Philli pines, Portugal, Russia, Middle East area, etc...more than 60 countries, send engineers to buyer site for installation, commissioning and training.



























Contact Us

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Contact Us

