

# COGEN SYSTEMS

[POWER PLANT –COGEN-COMBINED CYCLE & CONSERVATION  
E-MAIL: COGENPAK@GMAIL.COM, MOB- 0300 8287009, PH-021-35340068 & 71 , ADDRESS : COGEN HOUSE # 111-A/2,3RD. STREET, PHASE-6, KH-E-MUHAFIZ, DHA, KARACHI-75500, PAK]



## Waste to Energy (WET) Turn Used Tyres to Fuel

4000 Ltr. Diesel from 10 Ton waste Tyre - Invest 7.5 Million Rs.  
Payback 3 Months -Tyre Diesel Oil cost @ Rs. 65 /Liters

Produce in House Diesel from Used Tyre @ Rs. 65 /Liters

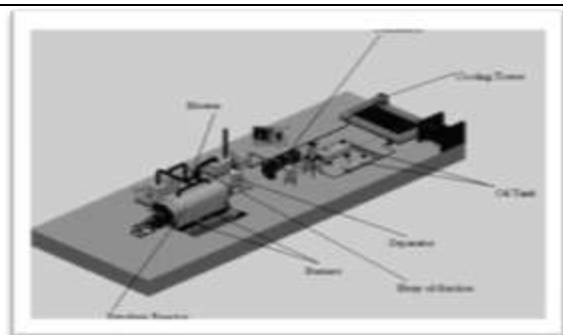
Or Buy Tyre Diesel Directly @ 75 Rs/Ltr.  
Save 45 Rs./Ltr. (wrt open market 120 Rs/Ltr)  
Run you Boilers, Diesel Engines, Furnace Foundries, Steel Mills

The Pyrolysis Process turns Waste tires into:

- 1- Diesel Fuel 40% (for Gen & Boiler)
- 2- Carbon Black Powder 33% (to sale out)
- 3- Steel wire 15% (to sale out )
- 4- Gas Fuel to burn 10% (in pyrolysis.)



30 Billion Waste Tyre available in the world unused.  
300 Million Tyres waste /Yr. in Europ & USA  
This is permanent fuel source for ever.  
Europian Tyres @ 18000 Rs/Ton, local Tyres @ 16000  
Each Ton Tyre Produce = 4,000 Liter Diesel  
Each Ton Tyre produce = 3,700 Kg carbon Powder  
Each Ton Tyre produce = 1,000 Kg Steel wires  
Each Ton Tyre produce = 1,000 Kg Gas LPG  
Other waste produce = 3,000 kg waste



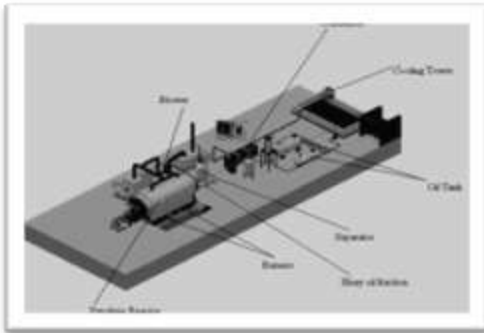
Invest Rs. 75,00,000 /- Payback = 3 Month  
Raw Material Feed = 10 Ton/day  
Liquid Fuel Diesel produced=4,000 Ltr./Day  
Gas Fuel produced =1000 Kg(self used un heating pyrolysis plant)  
Carbon Powder produced=3500 Kg  
Steel wire produced=1500 Kg

300 Million Ton/Yr. Waste Tyre  
24% USA  
21% Europe  
17% China  
17% Asia  
14% Japan

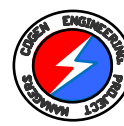


# COGEN SYSTEMS

[POWER PLANT –COGEN-COMBINED CYCLE & CONSERVATION  
 E-MAIL: COGENPAK@GMAIL.COM, MOB- 0300 8287009, PH-  
 021-35340068 & 71 , ADDRESS : COGEN HOUSE # 111-A/2,3RD.  
 STREET, PHASE-6, KH-E-MUHAFIZ, DHA, KARACHI-75500, PAK]

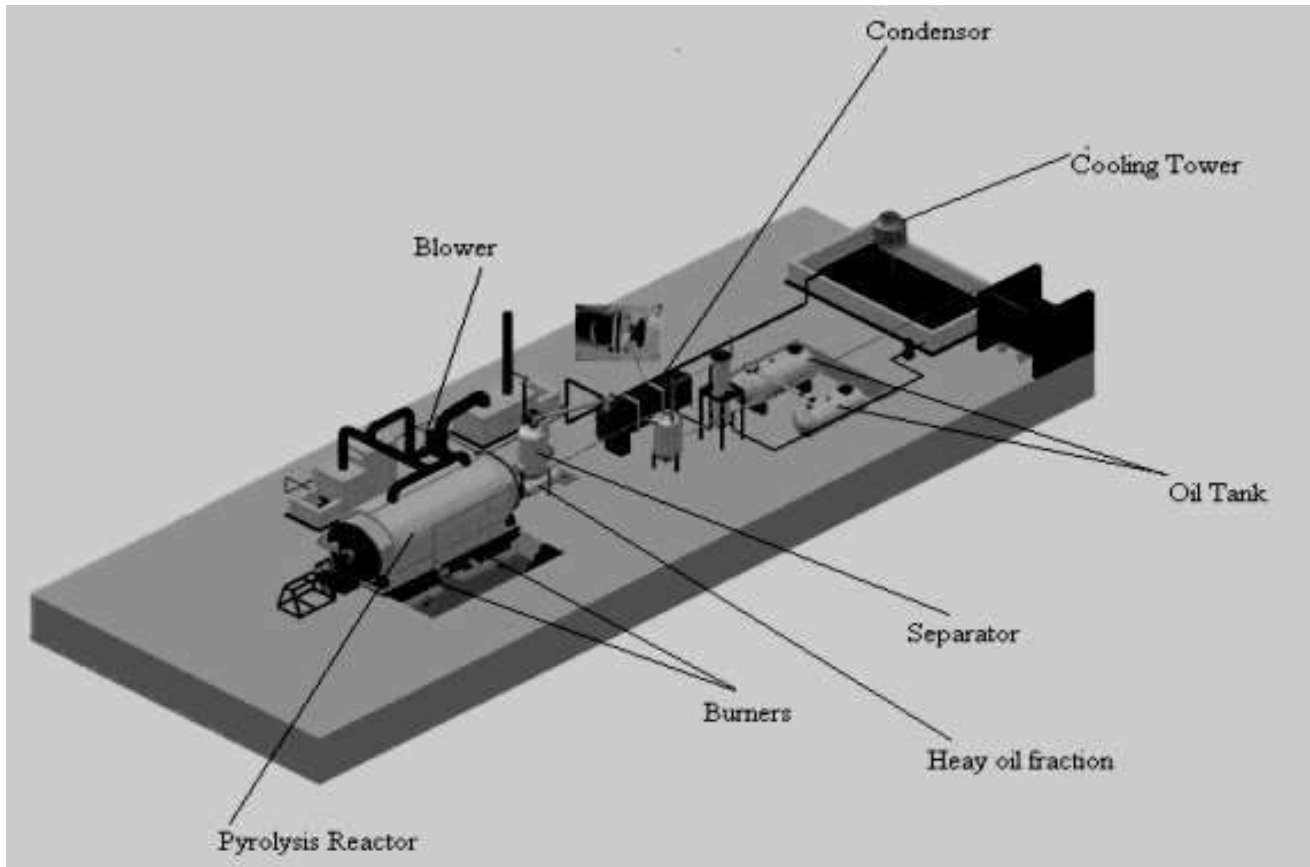


COGEN SYSTEMS



# COGEN SYSTEMS

[POWER PLANT –COGEN-COMBINED CYCLE & CONSERVATION  
E-MAIL: COGENPAK@GMAIL.COM, MOB- 0300 8287009, PH-  
021-35340068 & 71 , ADDRESS : COGEN HOUSE # 111-A/2,3RD.  
STREET, PHASE-6, KH-E-MUHAFIZ, DHA, KARACHI-75500, PAK]



- Tyre Pyrolysis Plant Capacity = 10 Ton
- Tyre Feed/Day = 4000 Liter Diesel/Day
- Tyre Material Fee Cost = Rs. 300,000 /- day
- Recovered Materia profit = Rs. 200,000/- day
- Profit from waste /Saving =Rs. 100,000 /day
- Capital Invest = Rs. 75,00,000/-
- Payback = 2 1/2 Month



COGEN SYSTEMS



# COGEN SYSTEMS

[POWER PLANT –COGEN-COMBINED CYCLE & CONSERVATION  
E-MAIL: COGENPAK@GMAIL.COM, MOB- 0300 8287009, PH-  
021-35340068 & 71 , ADDRESS : COGEN HOUSE # 111-A/2,3RD.  
STREET, PHASE-6, KH-E-MUHAFIZ, DHA, KARACHI-75500, PAK]



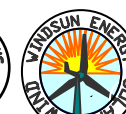
## Turn Waste Fuel –Tyres to Diesel

### TYRE PLANT FEASIBILITY

RAW MATERIALS /INPUT	unit	qty	@	Rs.	Feed
LOCAL TIRES	TON	10	18000	180000	TYRE
WOOD /COAL PILOT FIRING	TON	0.5	6000	3000	WOOD
COOL WTR TANKER 2000 Gallon	TANKE R	1	2000	2000	WATER
ELECTRICITY 50 KWE x 10 hrs	KWEH	500	12	6000	ELECT
GAS FIRING SELF PRODUCED	TON	1	0	0	GAS
LABOUR 6 NO @ 500 Rs/day (TRANSPORT +O&M/ BATCH	NO	6	500	3000	LABOUR
SALES TAX ON OIL / BATCH	TON	4	500	2000	
<b>Total feed Cost to Plant</b>			<b>Rs.</b>	<b>199,000</b>	
OUTPUT /PRODUCT	%	Tons	Sale Rate	Total Rs.	
TPO (TYRE PYRO OIL) 40%	40%	4	65000	260000	OIL
GAS 10% (Re used in pyro heating)	10%	1	0	0	GAS
CARBON POWDER 37%	37%	3.7	5000	18500	CARBON
STEEL WIRE 10%	10%	1	23000	23000	STEEL
OTHERS 3%	3%	0.3	0	0	WASTE
<b>Total income from PLANT</b>			<b>Rs.</b>	<b>301,500</b>	
<b>SAVING/PROFIT Per batch</b>				<b>102,500</b>	
Cost of product (TPO, CB, Steel) / Ton			Rs.	22,874	
Cost of product (TPO, CB, Steel) / Kg			Rs.	22.87	
INVESTMENT			Rs.	7,500,000	
PAYBACK				73	Days
				2.4	Months



COGEN SYSTEMS





# COGEN SYSTEMS

[POWER PLANT –COGEN-COMBINED CYCLE & CONSERVATION  
E-MAIL: COGENPAK@GMAIL.COM, MOB- 0300 8287009, PH-  
021-35340068 & 71 , ADDRESS : COGEN HOUSE # 111-A/2,3RD.  
STREET, PHASE-6, KH-E-MUHAFIZ, DHA, KARACHI-75500, PAK]



Most Preferable



Least Preferable



COGEN SYSTEMS

