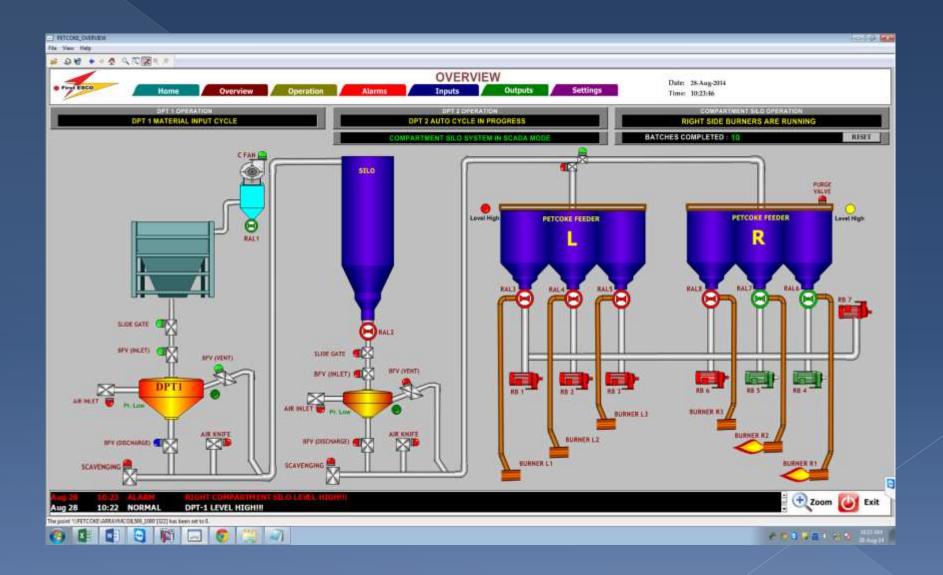


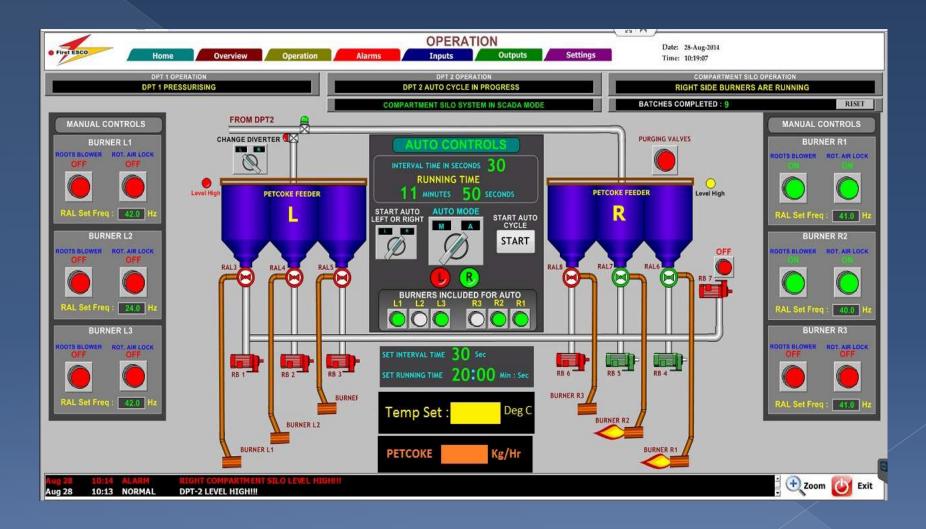
DESIGN, EGINEERING AND DEVELOPMENT by



Petcoke Firing System – SCADA Pages



Petcoke Firing System – SCADA Pages



WHAT IS PETCOKE

- Petcoke is an alternative Fuel
- It is a residue from Petroleum Refining
- It has High Fixed carbon (> 90%)
- High calorific value : 8400 kcal/kg
- Low cost Fuel
- Easy to handle
- Possible to replace HFO / LPG/ PROPANE/ NG

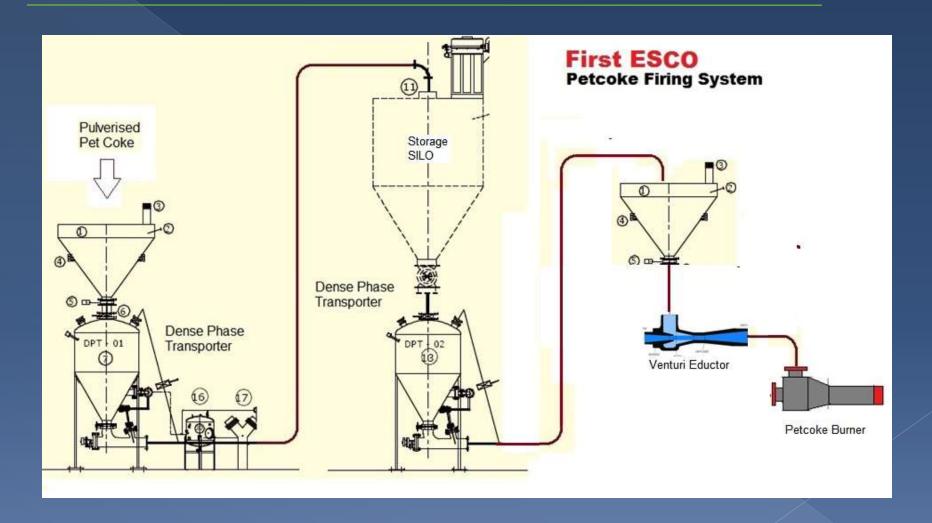
WHY PETCOKE

- Low cost compared with HFO / LPG/ NG
- Reduce Operating cost
- Improve profitability
- Easy to Do fuel switching
- Very quick Payback period (3 to 4 Months)
- Can be implemented in 16 weeks period
- Systems will meet environmental regulations

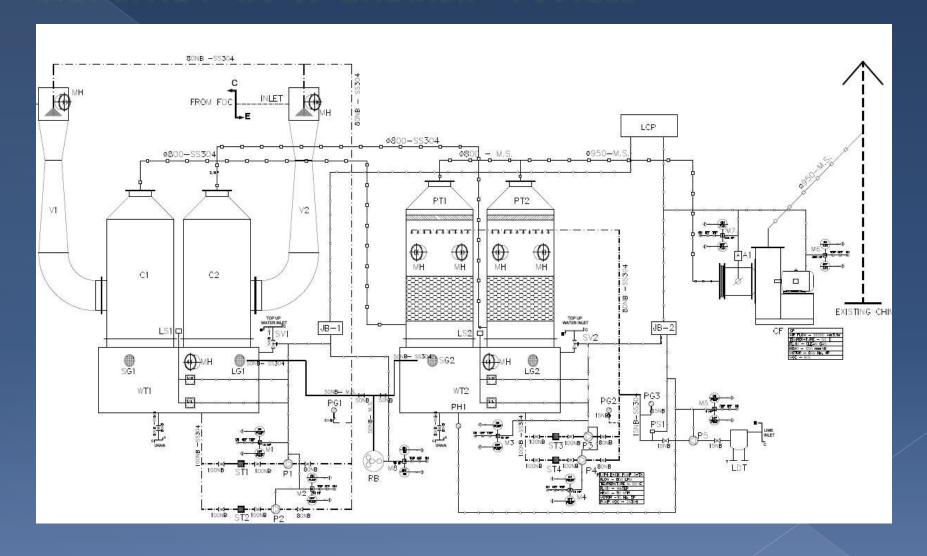
PETCOKE RETROFIT PROJECT SCOPE

- Petcoke powder unloading system
- Petcoke storage silo
- Petcoke conveying from Unloading system to Silo
- Petcoke conveying from Storage silo to the Feed hopper
- Petcoke feeding form Hopper to the Burner
- Petcoke fired Burner (Dual fuel)
- Wetlime Flue Gas scrubbing system (SO2 Removal)
- Waste Heat recovery Power Generation

PETCOKE FIRING SYSTEM



WET FLUE GAS SCRUBBING SYSTEM





Petcoke Retrofit Opportunity – Glass Furnace (CASE STUDY)

PRESENT OPERATING CONDITIONS			
Glass Production Capacity	350	Tons/Day	
Fuel oil requirement	100	kg/Ton	
Total Fuel Requirement	35	Ton/Day	
Fuel required per hour	1.458	Tons/Hr	
Fuel Oil GCV	9534	Kcal/Kg	
Heat requirement per Hour	13903750	kcal/hr	
Heat Energy	55.17	MMBTU/Hr	
Rate of Fuel Oil	650	US\$/Ton	
Cost of fuel/ Hr	948	US\$/Hr	
Cost per MMBTU	17.18	US\$/MMBTU	

Petcoke Retrofit Opportunity 350 Tons/Day Glass Furnace (CASE STUDY)

Annual savings due to Pet Coke Firing			
Glass Production Capacity	350	Tons/Day	
Heat requirement per Hour	13903750	kcal/hr	
Pet Coke GCV	8200	kcal/Kg	
Pet Coke requirement	1695.57	kg/Hr	
Rate of Pet Coke per Ton	280	US\$/Ton	
Cost of Pet Coke/ Day	11394.29	US\$/Day	
Fule Oil requirement	1458	Kg/Hr	
Fuel Oil Rate	650	US\$/Ton	
Fuel Oil Cost/Day	22744.8	US\$/day	
Petcoke savings/ Day	11350.51	US\$/day	
Petcoke savings per year	4,142,935	US\$/Year	



















What We offer

- **PETCOKE HANDLING SYSTEMS**
- **▶PETCOKE FIRING SYSTEMS**
- >FLUE GAS SCRUBBING SYSTEMS
- >PULVERISED PETCOKE
- >PETCOKE GRINDING SYSTEMS

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