

CH Non-Food Import-Export Corp.

16.Jun.2008

Dear Sirs

subject to prior sale we can offer

1.) 12.5 MW complete Biomass Power Plant

Manufacturer: Westinghouse Turbine and Generator (1953 vintage), Zurn Boiler
(original boiler at construction)

Year of Construction: Facility in 1983

Running hours: It ran at approximately 93% to 97% capacity from 1983 to 2002

Location: USA

Price: 3,850,000 \$ USD and needs to be removed from the site.

Detailed information as Scope, Drawings, Pictures, Calculations etc on request.

Client comment:

"...As we have mentioned before, the plant is in better shape than we expected, and we firmly believe you operated it properly and did a good maintenance job throughout the years."

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2.) 58 MW Coal fired Powerplant

STEAM TURBINE:

Manufacturer: General Electric
Rating: 58 mw
Inlet steam: 1250 psig/950 deg F
Maximum inlet steam flow: 500,000 lbs/hr
Exhaust steam pressure: 1.5" hga
Steam rate: 8.2 lbs/kwh at 50 mw
Steam flow at 50 mw: 410,000 lbs/hr
Speed: 3600 rpm
Extraction steam: 5 points only for feed water heaters
Inlet/extraction flange size:12"/6",4",8",12",14"
Year built: 1994
Turbine can also handle: 1500 psig, 71 mw
Rotation from governor end: cw

GENERATOR:

Rating: 54117 kva at 15 psig hydrogen pressure
Voltage: 14,400 v
PF: 0.85
Stator Amps: 2170 amps
Type of cooling: Hydrogen
Exciter: GE Digital, 250 v, 480 amps
Speed: 3600 rpm
Turbine control system: Mark V
Approximate weights:
Assembled turbine weight: 134,069 lbs
Turbine rotor: 22,762 lbs

Generator complete: 276,500 lbs

Generator stator: 218,000 lbs

Rotor: 46,000 lbs

Condenser: 32,500 sq. ft

The condenser designed for river water if needed
can supply 52,000 sq. feet condenser

Scope of Supply:

Turbine complete

Steam inlet stop valve

Lube oil tank with lube oil cooler, pumps and control oil pumps

Sole plates for turbine and generator

Hydrogen cooling system

Exciter GE digital

Mark V turbine control system

Condenser

2 x Condensate extraction pumps with 2300 v motors

2 x 21,000 gpm River water pumps with 2300 v motors

Feed water heaters with controls

Interconnecting piping and valves

45 mva 67 kv wye to 13.2 kv Westinghouse GSU transformer

3750 kva Station transformer

BOILER;

Manufacturer: B & W

Fuel: Pulverized Coal

Steam rate: 437,000 lbs/hr

Steam at Superheater outlet: 1250 psig/950 deg f

Boiler is complete with ID fans, FD fans, PA pans, Boiler feed
water pumps with drives, Economizer, Superheater, ESP, Stack.

Exclusions:

Coal handling system including conveyers and tipping unloading
(scope starts from Coal bunkers)

Ash handling system. (some conveyers are included)

Boiler controls

Boiler columns (these are used for building support also, we
can take the horizontal support only)

Price: 7,500,000 USD as where it is.

more information on request

2.a.) More coal fired plants (80 - 125 MW)

---- on request.

3.) 2 (two) Sets 56 MW each

10,984 KJ / KWH Gas 11,093 Liquid

Originally Dual fuel, liquid side removed but available

YOM 1985

STEAM TURBINE FAILED AND THE PLANT BECAME INEFFICIENT.

2 - 56,000 KW 80% PF 70,000 KVA BBC GENERATORS,
3 PHASE, 60 CYCLE, 13,800 VOLTS, 3600 RPM, DIRECT
CONNECTED TO

2 - 56,000 KW BBC GAS TURBINES , NATURAL GAS FIRED,
(liquid fuel items available @site)
TYPE 8, 3600 RPM. NEW 1985.

EACH UNIT IS EQUIPPED WITH 400,400#/HR HEAT RECOVERY STEAM
GENERATOR AVAILABLE AT ADDITIONAL COST.

Please note that these units located in the USA were operated at 60 cycle - 13,800 volts

Gas Turbine

Manufacturer	BBC Type 8
Type	8 Axial Reaction
Number of Compressor Stages	12
Number of Shafts	1 Common
Number of Turbine Stages	3
Speed of Shaft	6339/6349
Mechanical Limit	56 MW
Exhaust Mass Flow	177 kg/s
Exhaust Gas Temp	525C
Casing Design	Horizontal Split
Rotor Design	welded
Number of Journal Bearings	2
Number of Thrust Bearings	1

Combustion Chamber

Manufacturer	BBC
Tile Temp	820C
Pressure Drop	3,7%
External Diameter	1.95Meters

Reduction Gear

Manufacturer	MAAG
Type	G-72 S

Generator

Manufacturer	BBC
Type	WY 16 L0068 LLT
Frequency	50/60
Nominal Output	68.75/82.5 MVA
Rated Voltage	11.5/13.8 kV
Voltage range	+/- 5%
Rated Current	3452/3600 A
Speed	3000 rpm
Short Circuit ratio	0.456 kc

Exciter

Manufacturer	BBC
Type	WBF 6-4 K
Frequency	50/60 Hz

Last overhaul, GT-901 - March 2000, GT-902 - November 2000.

Operating hours since last OH:

GT-91 - 26,275 OH, 29,395 EOH,
GT-92 - 23,475 OH, 26,375 EOH

For the 50 mw , minimum power plant we have the latest on some equipment.

Both Plants must be purchased , a Heat recovery is also available with each Turbine.

Note: The heat rate on these turbines are as good as the newer high temp Turbines.

These were originally 50 hz, with reduction gear modification for 60 hz, could go back.

Price is 5.25 Million USD each

HRSR is needed @ \$400,000 each

Gear modification to 50 hz expected @ \$450,000

SCOPE and PICTURES on request

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4.) Two each Westinghouse model W-251b 4

30 mw each' 13.8 kv

complete cooling thru electrical metering and Circuit breaker.

liquid fired

These are perfect work horses for operating on good # 6 oil

(good oil analyse must be provided)

Westinghouse W 251 b2-6

that unit initiate services on March 14 of 1974, becomes out of service on June 2003, being on the condition of a available for emergencies.

Turbine hours since chnageout 8,600 & 13,000

Current Facts:

Hours Working: 254.2

Net Production: 5.428.9 Mwh

Consumtiion of LFO 15.457.14 Bts

Disponibility: 97.5 %

Net Effeciency: 22.2 %

Hour Rate: 15.341 Btw/Kwh

Total Hours: 75.539

Starts (successfully) 5.472

Overhaul: 6

CHARACTERISTICS

Turbo-Compressor

Manufacturer-Westinghouse

Open Cycle

Model-W 251 b2-6

Serial No. 17A2106 (SPM)

17A2108 (BARAHONA)

Base Charge 28.300 MW-H

Peak Charge 30.590 MW-H

Reserve 31.400 MW-H

Liquid Fuel Fuel Oil destillated No 2

Speed 4894 RPM

Axiar Compressor Relation 10/1

Axiar Compressor Stages 18

Turbine Stages 3

Frequency (Hz) 60

Reunion 4894/3600

Cross fired tubes 8
 Rotor Weight 33,200 Lbs.
 Total package Weight 220,000 Lbs.
 Rotor Length 27 Ft.
 Total Rotor Package Length 44 Ft.

Price 3.85 Million USD each, plus any removal and freight charges,

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5.) 4 each GE Frame 5-la Gas Turbines,

less than 1,000 hours since last major overhaul

Rating 16.5 mw each

60 hz, 13.8 kv

6 each GE Frame 5-la Gas Turbines, less than 1,000 hours since last major overhaul

Rating 16.5 mw each

currently 60 hz, converted to 50 hz

4 each Electric start, 2 each Black start diesel.

TURBINE DATA

BRAND	GE
MODEL	MS5001 LA
CAPACITY	16.5 MW
RPM	5100
CONTROLS	WDPF
	MHZ FLOATING POINT CENTRAL PROCESSOR
ELECTRICAL	FULL UTILITY ELECTRICAL, WITH , METERING, RELAYS ETC.
SYNCH EQUIPMENT	FACTORY, AUTOMATIC :: AUTO SYNCHRONIZER
EXHAUST SYSTEM	FACTORY COMPLETE
RPM	5100
STAGES:	15
EXHAUST GAS FLOW	255.5 LB/SEC
AIR INTAKE	INCLUDED
HUMIDITY	83%
TEMP	28 c
AREA FOR TURBINE	565 METERS
TEMP	964 f
AIR @ COMPRESSOR	86 f
NO. OF COMBUSTION	10
COOLING	FIN / FAN

GENERATOR

GENERATOR	GE
MODEL	ATB
INSULATION	CLASS F
COOLED	AIR
PF	0.8
CAPACITY	20780 KVA
CYCLE	60 HZ
VOLTAGE	13.8KV
AMPS	788 AMPS
EXCITER RPM	3600

POLES 2 POLES
AUXILIARY POWER FROM STATION TRANSFORMER , WITHIN UNIT
STARTING BLACK START DIESEL (one per group)
WEIGHTS : GENERATOR :::: 147,800 LB'S
TURBINE :::: 176,000 LB'S

Price 3.45 Million USD each

SCOPE and PICTURES on request

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6.) Two each 10.25 mw Turbine sets

LMA 1500 Turbine Module

The turbine skid assembly is contained in a weather-resistant sound reducing enclosure containing the fully assembled LMA 1500 engine and power turbine. Skid installation includes wiring, instrumentation and piping. The skid is provided with a gas and fire detection/suppression system. An exhaust fan mounted on the skid roof window draws clean filtered air through the enclosure. The enclosure air enters through a window on each side of the skid. Windows are fitted with filters, rain hoods, and fire dampers that are actuated by the fire suppression system.

The module is completely assembled and ready to operate including lube oil, hydraulic oil and fuel piping, instrumentation, and pre-wired electrical components. The module foundation is provided by customer. seller will supply foundation drawings.

Price 2.35 Million USD each

SCOPE and PICTURES on request

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7.) 100 MW Power Barge

with Pratt & Whitney FT4C-1D gas turbines
on diesel or natural gas

The FT4C-1D Twin Pac is an outdoor, completely self-contained, automatic, gas turbine powered electric generating plant, nominally 50 HZ rated at 51 MW at 15* C. The unit contains all the equipment required for local unattended operation and provisions for interconnection to a remote control panel. It has the capability to start-up in the event of loss of purchaser-provided AC electrical power when the unit is in a stand-by condition. This builtin starting capability, plus the ability of the unit to assume full load in less than four minutes after initiation of the start signal, provides excellent protection in the event of a "black-out".

The FT4C-1D Twin Pac consists of five primary modules; two gas turbines, the electric generator, the control enclosure and a high voltage switchgear inclosure. Each gas turbine unit consists of a Pratt & Whitney aero-derivative FT4C-1D gas generator and a two stage free turbine. The gas turbines provide high energy gas to the free turbines, which in turn, convert this energy into useful work when mechanically coupled to a driven load through flexible couplings. The electric generator is an Electric Machinery air-cooled, two pole, turbine type generator with a brushless excitation system. The control enclosure contains the gas turbine control, generator control, mo tor control center, low voltage switchgear, batteries and charger, engine fuel controls, an upgraded digital PLC sequencing system,

protective relays, auxiliary transformers and a master terminal board. The high voltage switchgear enclosure contains the main circuit breaker and high voltage transformers.

The gas generators and free turbines are provided with low pressure lubrication systems including oil storage tanks and filtration. The electric generator has a separate lubrication system with AC motor driven lube oil pump with a DC pump backup. All systems are air cooled.

The electric generator is an Electric Machinery synchronous generator nameplate rated at 74,500 kVA , 59°F, 0.9 power factor, 60 HZ, 3 phase, 2 pole 3600 RPM, open air cooled, two sleeve bearing bracket type. Generator excitation is provided by a 250 V, 150 kW, direct connected brushless exciter with permanent magnet generator pilot exciter.

The gas turbine inlet stacks are acoustically treated and are fitted with sound attenuating baffles. The exhaust stacks are constructed with "corrosion resistant" steel and sound attenuating baffles. The turbines, generator and controls enclosure are of painted steel construction.

Price is 45 Million USD

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8.) 92 MW Power Barge

with GE Frame 6B gas turbines
on diesel

Price is 51 Million USD

with HFO option for an additional 5 Million USD

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9.) Ruston TB 4000 Gasturbine

- * gasturbine type Ruston TB 4000
- * electr. Power 3,38 MVA
- * running hours less 800
- * starts 800
- * frequency 50 Hz
- * year of manufacturing 1976, overhauled in 1994, modification of the control system in 1998
- * including turbine control, generator, gearbox, lubrication oil pump, fresh air filter housing, automatic synchronisation, spareparts for control system, new fuel gas control system regulator from 1996, battery system for the lubrication oil system and turbine control, housing.

This plant is used as an emergency plant and very well maintained and the owner invested much money in the past for overhaul and modifications. The plant is still available in running condition and can be inspected any time.

Price: 425,000.00 EURO (incl. dismantling, packing, loading, transport FOB)

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10.) Several (x) New unused Frame 9'S

--- NOT FOR PAKISTAN --- under contract there already

Fuel: Set up for Liquid Fuel (DIESEL 2).

GE Frame 9 Gas Turbine Packaged Power Plants

PERFORMANCES: SIMPLE CYCLE

Output Power: 126 MW

Heat Rate: 10096 BTU/KWh (10650 kJ/kWh) (natural gas)

Model Structure

Type	Standard	Standard	Standard
Fuel	Natural	Gas Distillate	Oil Heavy Oil
Output	126100 kW	123300 kW	115300 kW
Heat Rate(LHV)	10650 kJ/kWh	10730 kJ/kWh	10960 kJ/kWh
Heat Cons(LHV)	1343×106 kJ/h	1328×106 kJ/h	1263.7×106 kJ/h
Exhaust Temp	543	543	520
Exhaust Flow	1505×103kg/h	1509×103kg/h	1508.6×103kg/h
Shaft Speed	3000r/min	3000r/min	3000r/min

Price: Euro 31 Million EACH

SCOPE ON REQUEST

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We have access to

11.) NEWLY Manufactured LM600/ Frame 6B & Frame 9

Please note that before we are able to provide you with a Price and availability we NEED to check the following:

1. Country of Installation:
2. Project Location:
3. Site Conditions (altitude, design temperature, avg. humidity):
4. Project Name:
5. Total Power Requirement:
6. Simple or Combined Cycle:
7. Number of Units Required:
8. Project Execution Timing:
9. Fuel(s) (Please attach fuel analysis for each fuel):
10. Generator Voltage:
11. Services required: (turnkey, engineering, shipping, etc.):
12. Special Requirements:
13. EPC Contractor
14. Project Financing by:

Best regards

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