CASE PARTICIPATION
OF
TED ROBERTSON

Company Name	Case No.
Missouri Public Service Company	GR-90-198
United Telephone Company of Missouri	TR-90-273
Choctaw Telephone Company	TR-91-86
Missouri Cities Water Company	WR-91-172
United Cities Gas Company	GR-91-249
St. Louis County Water Company	WR-91-361
Missouri Cities Water Company	WR-92-207
Imperial Utility Corporation	SR-92-290
Expanded Calling Scopes	TO-92-306
United Cities Gas Company	GR-93-47
Missouri Public Service Company	GR-93-172
Southwestern Bell Telephone Company	TO-93-192
Missouri-American Water Company	WR-93-212
Southwestern Bell Telephone Company	TC-93-224
Imperial Utility Corporation	SR-94-16
St. Joseph Light & Power Company	ER-94-163
Raytown Water Company	WR-94-211
Capital City Water Company	WR-94-297
Raytown Water Company	WR-94-300
St. Louis County Water Company	WR-95-145
United Cities Gas Company	GR-95-160
Missouri-American Water Company	WR-95-205
Laclede Gas Company	GR-96-193
Imperial Utility Corporation	SC-96-427
Missouri Gas Energy	GR-96-285
Union Electric Company	EO-96-14
Union Electric Company	EM-96-149
Missouri-American Water Company	WR-97-237
St. Louis County Water Company	WR-97-382
Union Electric Company	GR-97-393
Missouri Gas Energy	GR-98-140
Laclede Gas Company	GR-98-374
United Water Missouri Inc.	WR-99-326
Laclede Gas Company	GR-99-315
Missouri Gas Energy	GO-99-258
Missouri-American Water Company	WM-2000-222
Atmos Energy Corporation	WM-2000-312
UtiliCorp/St. Joseph Merger	EM-2000-292
UtiliCorp/Empire Merger	EM-2000-369
Union Electric Company	GR-2000-512
St. Louis County Water Company	WR-2000-844
Missouri Gas Energy	GR-2001-292
UtiliCorp United, Inc.	ER-2001-672
Union Electric Company	EC-2002-1
Empire District Electric Company	ER-2002-424

Schedule TJR-1.1

CASE PARTICIPATION
OF
TED ROBERTSON

Company Name	Case No.
Missouri Gas Energy	GM-2003-0238
Aquila Inc.	EF-2003-0465
Aquila Inc.	ER-2004-0034
Empire District Electric Company	ER-2004-0570
Aquila Inc.	EO-2005-0156

Aquila CT Appraisal - Pricing Summary

Client No. 010144
W/O No. 02-01362-01000
Date 11/19/2004

	Original Cost	Replacement Cost	Aquila offer to sell to KCPL	Rolls Royce offer to sell to Aquila	SWPC offer to sell grey unit to Aquila	Penn Energy internet offer 1	Penn Energy internet offer 2	Utility Warehouse internet offer
CT								
qty	3	1	3	2	1	1	1	1
Cost	$76,137,869	$24,500,000	$69,000,000	$43,000,000	$19,000,000	$26,000,000	$33,000,000	$15,000,000
Adjustments								
Option Payment	($3,712,500)							
CO No. 1 (Exhaust Stacks)		($1,849,200)		($1,849,200)	($1,849,200)	($1,849,200)	($1,849,200)	
CO No. 1 (Other)								
Warranty	($2,240,000)	($2,240,000)	($2,240,000)		($2,240,000)			
Guarantees								
Prod Mods	($300,000)							
Rehabiliation	($600,000)							
TFA				$2,350,000	$2,350,000			$2,350,000
Mult Unit Purchase		($1,000,000)						
Change to DLN				$5,000,000	$5,000,000			$5,000,000
Transportation				$1,200,000	$1,200,000	$1,200,000	$1,200,000	$1,200,000
Internal Labor	($39,399)							
Total Adjustments	($6,891,899)	($5,089,200)	($2,240,000)	$6,700,800	$4,460,800	($649,200)	($649,200)	$8,550,000
CT Subtotal*	**$69,245,970**	**$68,410,800**	**$66,760,000**	**$71,200,800**	**$61,460,800**	**$77,350,800**	**$98,350,800**	**$53,550,000**
* adjusted for three units								
Transformers & Breakers								
Transformers								
qty	6	6		6	6	6	6	6
Cost	$1,686,150	$1,686,150		$1,686,150	$1,686,150	$1,686,150	$1,686,150	$1,686,150
Adjustments								
Storage	($15,500)	($15,500)		($15,500)	($15,500)	($15,500)	($15,500)	($15,500)
Retesting	($28,305)	($28,305)		($28,305)	($28,305)	($28,305)	($28,305)	($28,305)
Additional Retainage	($1,045)	($1,045)		($1,045)	($1,045)	($1,045)	($1,045)	($1,045)
Transformer Subtotal	$1,641,300	$1,641,300		$1,641,300	$1,641,300	$1,641,300	$1,641,300	$1,641,300
Breakers								
qty	3	3		3	3	3	3	3
Cost	$765,570	$765,570		$765,570	$765,570	$765,570	$765,570	$765,570
Adjustments								
Bond	($7,500)	($7,500)		($7,500)	($7,500)	($7,500)	($7,500)	($7,500)
Storage	($13,320)	($13,320)		($13,320)	($13,320)	($13,320)	($13,320)	($13,320)
Breakers Subtotal	$744,750	$744,750		$744,750	$744,750	$744,750	$744,750	$744,750
Procurement								
Cost	$126,644	$126,644		$126,644	$126,644	$126,644	$126,644	$126,644
Adjustment								
B&M Services	($126,644)	($126,644)		($126,644)	($126,644)	($126,644)	($126,644)	($126,644)
Procurement Subtotal	$0	$0		$0	$0	$0	$0	$0
$2,578,364								
Transformers & Breakers Subtotal	**$2,386,050**	**$2,386,050**		**$2,386,050**	**$2,386,050**	**$2,386,050**	**$2,386,050**	**$2,386,050**
Total	**$71,632,020**	**$70,796,850**	**$66,760,000**	**$73,586,850**	**$63,846,850**	**$79,736,850**	**$100,736,850**	**$55,936,050**
	3 units w/o warranty w/o prod mods w/o rehab w/o stacks w/ TFA w/ DLN in KC	3 units w/o warranty w/ prod mods w/rehab w/o stacks w/ TFA w/ DLN in KC	3 units w/o warranty w/o prod mods w/o rehab w/o stacks w/ TFA w/ DLN in KC	3 units w/o warranty w/o prod mods w/o rehab w/o stacks w/ TFA w/ DLN in KC	3 units w/o warranty w/o prod mods w/o rehab w/o stacks w/ TFA w/ DLN in KC	3 units w/o warranty w/o prod mods w/o rehab w/o stacks w/ TFA w/ DLN in KC	3 units w/o warranty w/o prod mods w/o rehab w/o stacks w/ TFA w/ DLN in KC	3 units w/o warranty w/o prod mods w/o rehab w/o stacks w/ TFA w/ DLN in KC
TFA	160	50						
	40	40						
	6400	2000						
	$ 365	$ 365						
	$ 2,336,000	$ 730,000						

Schedule TJR-2
Partial response to OPC DR No. 14 and MPSC Staff DR No. 5

#4

Robertson, Ted

From: equipment@ogjexchange.com [glp@ogjexchange.com]
Sent: Monday, February 07, 2005 10:19 AM
To: ted.robertson@ded.mo.gov
Subject: RE: Global Equipment Exchange Product Request

$15 million each.

-----Original Message-----
From: ted.robertson@ded.mo.gov [mailto:ted.robertson@ded.mo.gov]
Sent: Friday, February 04, 2005 4:30 PM
To: equipment@ogjexchange.com
Subject: Global Equipment Exchange Product Request

Auction Item Name: 130MW Siemens Westinghouse (Mitsubishi) 501 D5A GTG
Auction Item Number: 12551
ISO Rating: 130
Request Info: What's current ballpark price?

First Name: Ted
Last Name: Robertson
Phone:
Fax:
Address: ted.robertson@ded.mo.gov
City:

Schedule TJR-3.1
Includes partial response to
OPC DR No. 14 and MPSC
Staff DR No. 5

For sale - gas turbines, line pipe, diesel generators, pumping units

Thursday, February 03, 2005

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Power Generation : Gas Turbine Gen Sets (10MW & Larger) : 130MW Siemens Westinghouse (Mitsubishi) 501 D5A GTG

Item # 12551:	130MW Siemens Westinghouse (Mitsubishi) 501 D5A GTG	Manufacturer: Siemens Westinghouse (Mitsubishi)	More Info...

Quantity: 1 **ISO Rating:** 130
List Date: 12/18/2003
Comments:
Description:
NEW 130MW Siemens Westinghouse (Mitsubishi) 501 D5A GTG, 60Hz, 13.8kV, gas fired, built in 2001 and never installed/stored in warehouse. Asking price is USD26 million, as is where is, subject to prior sale.

"For more information, photos, or to set up an inspection, please inquire using the "More Info" button.

Other Information:

Power N

Dubai to spen on power sect
Feb-03-2005

First project fi facility in Cali since energy
Feb-03-2005

Fluor reports new awards ir preliminary 20 results
Feb-03-2005

Oil & Gas

MARKET WAT Comfort level stocks underc prices
Feb-03-2005

MARKET WAT Prices fall in p taking
Feb-02-2005

Barrett pursue agenda in Roc Mountains
Feb-02-2005

Schedule TJR-3.2
Includes partial response to
OPC DR No. 14 and MPSC
Staff DR No. 5

#5

Robertson, Ted

From: equipment@ogjexchange.com [glp@ogjexchange.com]
Sent: Thursday, February 03, 2005 3:01 PM
To: ted.robertson@ded.mo.gov
Cc: Paul Westervelt; rwilliamson@thomassenamcot.com
Subject: RE: Global Equipment Exchange Product Request

Ted,

Thanks for your inquiry. There are two units available. Estimated pricing is $15 million each, as is where is, subject to prior sale. Let us know if interested and we can discuss this further.

Regards, Randy Hall
PennEnergy
713-499-6330

-----Original Message-----
From: ted.robertson@ded.mo.gov [mailto:ted.robertson@ded.mo.gov]
Sent: Thursday, February 03, 2005 2:26 PM
To: equipment@ogjexchange.com
Subject: Global Equipment Exchange Product Request

Auction Item Name: 120MW Siemens Westinghouse 501 D5A GTG
Auction Item Number: 12540
ISO Rating: 120
Request Info: Ballpark pricing info.

First Name: Ted
Last Name: Robertson
Phone:
Fax:
Address: ted.robertson@ded.mo.gov
City:

Schedule TJR-3.3
Includes partial response to
OPC DR No. 14 and MPSC
Staff DR No. 5

Thursday, February 03, 2005

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Power Generation : Gas Turbine Gen Sets (10MW & Larger) : 120MW Siemens Westinghouse 501 D5A GTG

Item # 12540:	120MW Siemens Westinghouse 501 D5A GTG	Manufacturer: Siemens Westinghouse	More Info...

Quantity:	1	**ISO Rating:**	120
List Date:	12/18/2003		

Comments:

Description:
New, 120MW Siemens Westinghouse 501 D5A GTG, 60Hz, gas fuel, with NOx control (25ppm), includes enclosure for thermal and sound for outdoor installation. Price USD33 million, as is where is, subject to prior sale. Generator rated at MVA 139MW at 33C, 13.8kV. Additional information upon request.

"For more information, photos, or to set up an inspection, please inquire using the "More Info" button.

Other Information:

Power N

Dubai to spen on power sect
Feb-03-2005

First project fi facility in Cali since energy
Feb-03-2005

Fluor reports new awards ir preliminary 2C results
Feb-03-2005

Oil & Gas

MARKET WA Comfort level stocks underc prices
Feb-03-2005

MARKET WA Prices fall in p taking
Feb-02-2005

Barrett pursue agenda in Roc Mountains
Feb-02-2005

Schedule TJR-3.4
Includes partial response to OPC DR No. 14 and MPSC Staff DR No. 5

#1

Robertson, Ted

From: Milt Fyre [milt@rmaglobal.com]
Sent: Friday, February 04, 2005 11:47 AM
To: 'Robertson, Ted'
Subject: RE: Ballpark Number

Ted, the price is $22 m. We are working with another party looking for the same equipment. They are project participants.

BR

-----Original Message-----
From: Robertson, Ted [mailto:ted.robertson@ded.mo.gov]
Sent: Thursday, February 03, 2005 2:25 PM
To: 'milt@easystreet.com'
Subject: RE: Ballpark Number

For the W501D5A

Ted Robertson

-----Original Message-----
From: Milt Fyre [mailto:milt@easystreet.com]
Sent: Thursday, February 03, 2005 3:33 PM
To: 'Robertson, Ted'
Subject: RE: Ballpark Number

What site?

Milt Fyre
Resource Management Associates, Inc.
utilitywarehouse (http://www.utilitywarehouse.com)
powerplantsonline.com (http://www.powerplantsonline.com)
Ph 503-239-5157 Fax 503-239-5136 Cell 503-351-9898
mailto:milt@rmaglobal.com

-----Original Message-----
From: Robertson, Ted [mailto:ted.robertson@ded.mo.gov]
Sent: Thursday, February 03, 2005 11:50 AM
To: 'sales@rmaglobal.com'
Subject: Ballpark Number

Site says extremely low price. What's the ballpark number?

Thanks,

Ted Robertson

Schedule TJR-3.5
Includes partial response to
OPC DR No. 14 and MPSC
Staff DR No. 5

Click Here to Return to POWER PLANT INDEX

120 MW Siemens Westinghouse 501D5A Gas Turbine Generator For Sale

Extremely Low Price!!!!!!!

Contact Milt Fyre for more details.
Phone: 503-239-5157
Fax: 503-239-5136
Email: milt@rmaglobal.com

Siemens Westinghouse 120 MW 501D5A Gas Turbine Generator. 60 Hz., dual fuel, 10,500 BTU heat rate, water injection NOx control (25 ppm NOx), available immediately. No additional switchgear. Enclosure: thermal & sound for outdoor installation.

2050 HP Electric Motor Starter Motor

Natural Gas Water injection NOx Control

FUEL - NATURAL GAS.
Limit for oil and particulate carry over in gaseous fuels is 99.95% removal of dust or droplets at 10 microns or larger.

Fuel supply temperature range: Natural Gas 50 F. to 80 F.

LUBE OIL & CONTROL SYSTEM

Power source	AC Motor Driven Main Pump 100%
CapacityCoolers	Fin Fan
Filters	Duplex

Loading Rate:

Type of start	Cold	Warm	Hot
Time required to reach synchronous speed	12	12	12
Time Required to Synchronize (min)	0.5	0.5	0.5
Time Required to attain rated load (min)	7.5	7.5	7.5

LUBE OIL RESERVOIR, COOLERS AND VAPOR EXTRACTORS

Capacity of Reservoir	5545
Total Number of Oil Coolers/Total Required at Rated Load	1
Tube Material and Type	C.S./Finned
Total Amount of Lubricating Oil in System Gal	4220

Oil Vapor Extraction

Number	2
Total Power, kW	7.5

Lube Oil Pumps

Oil Pump:	2 x 100% AC Motor/1 x 100% DC Motor
Horsepower each:	2 @ 100 HP/1 @ 10 HP

Schedule TJR-3.6
Includes partial response to OPC DR No. 14 and MPSC Staff DR No. 5

Turning Gear

Motor Horsepower	10
Speed, rpm	3

GENERATOR DATA

Rated MVA 139 MW at 33C
Rated Terminal Voltage 13.8 kV
Rated Power Factor at the Generator Terminals 0.90 lagging – 0.95
Rated Active Power at generator terminals must be continuously available over a GTG speed range of 100–103%
Rated Active Power at generator terminals will de-crease in proportion with speed over a GTG speed range of 100–95%
Rated Active Power at generator terminals shall not be affected by voltage changes over the operating range +/- 5%
Reactive Power output under steady state conditions should be fully available at all relevant voltage levels within +/- 5%

Type of unit	synchronous
Speed, rmp	3,600
Field Current (rated MVA, kV and PF) amp	1453
Field Voltage (rated MVA, kV and PF) volts	198.5

Required Discharge Resistor to give a maximum DC component of negative field voltage 4.0 times the value at rated load (if the field cannot tolerate this voltage, so state)

Short Circuit Ratio (minimum): 0.60 at rated output
Three-Phase Capacitance to Ground (mfd) Micro Fd/phase: 0.197

EXCITER DATA

Rated 350 kW(output of rectifiers)
3 phase diode rectifiers
250 VDC
AC field circuit breakers
Ceiling voltage (DC) 1.43 P.U.
Exciter response ratio (minimum) 0.5
Permanent magnet generator (PMG) 3.5 kVA
PMG rated voltage 120 V
PMG rated frequency 480 Hz.
Type of generator voltage regulator MGR (analog), both manual and automatic control
Maximum allowable temperature/temperature rise
- Armature winding 130 C
- Field winding 130 C

Exciter Coolers

STARTING CAPACITY

Electric motor, self-synchronous, duo-concentric clutch, 2050HP, 4,000V, Power Factor 85.

Schedule TJR-3.7
Includes partial response to
OPC DR No. 14 and MPSC
Staff DR No. 5

PROTECTION SYSTEM INSTRUMENTS AND TRIP FUNCTIONS

Alarms:
When any of the following conditions exists an alarm is generated:

Manual emergency trip
Manual stop
turbine and generator high bearing metal temperatures
Turbine and generator high vibration
Flame out
Inlet air filter high differential pressure
Fuel supply pressure low
Lube oil level low
Lube oil high temperature
Lube oil low temperature
DC lube oil pump running
DC lube oil pump overload
High lube oil filter differential pressure
Turbine over speed
Loss of turning gear
Loss of governor control power
Fire extinguishing system actuated
Fire extinguishing system disarmed
Governor control system failure
Igniter trip (Failure to fire)
Generator stator high temperature
Generator air filter differential
Generator rotor ground
Exciter field over current
Voltage regulator power supply failure
Regulator on minimum excitation limit
Regulator over excitation
Regulator loss of control power
Regulator operating on backup AVR
Minimum excitation trip

Schedule TJR-3.8
Includes partial response to
OPC DR No. 14 and MPSC
Staff DR No. 5

AUTO UNLOAD

When any of the following conditions exists an alarm is generated and GTG load is decreased until the condition resets itself.

Three or more blade thermocouples have failed
The GTG frequency is high with the generator breaker closed
Generator stator temperature high
Compressor inlet pressure low
Blade path differential greater than 60 F
Blade path spread greater than 110 F
Blade path variance high
Blade path spread high or failure for more than 12 hours
Disc cavity temperature high
Rotor air cooling air temperature high
Compressor inlet pressure high
Rotor cooling air thermocouple trouble

Schedule TJR-3.9
Includes partial response to
OPC DR No. 14 and MPSC
Staff DR No. 5

TRIP

When a trip condition occurs, an alarm is generated with the trip condition being retained and all other conditions are prevented from alarming. Therefore, the trip condition which causes the trip is identified to the operator (first out). Any trip condition is cleared by the operator initiating a trip reset. The following conditions constitute a trip condition:

Gas over fuel at ignition
High GTG vibration
Trip initiated by the operator in the control room
Trip initiated by the operator in the GT electrical skid
Trip initiated by the operator in the PS&G cabinet
Bleed valves are not in the requested position
GTG is accelerating too slowly.
A fire is detected
An auto unload condition exists prior to reaching synch speed
Critical monitoring of inputs indicate not good quality
The master trip relay de-energizes
GTG fails to reach 225 rpm with the starting device engaged within a minute
GTG fails to reach ignition within 2 minutes after reaching 225 rpm and spent hold not selected
GTG fails to ignite.
GTG fails to reach 1600 rpm within 150 seconds
GTG over-speed
GTG under-speed
GTG load exceeds maximum MW set point
The operator initiates a trip from the CRT graphics
Lube oil pressure low
Lube oil reservoir level low
Blade path spread high
A load dump fault does not self-reset with 10 seconds of a load rejection
Generator differential
Generator ground
Negative phase sequence
Loss of field
V/Hz trip
Excite field over-current
Voltage regulator power supply failure
Regulator over-excitation
Minimum excitation trip
BOP trip

ELECTRICAL OUTPUT GUARANTEE:

Seller guarantees that the Adjusted Electrical output of the CT Unit (the "Adjusted Electrical Output-CT") shall be greater than 119,845kW (Net of CT-Unit Auxiliary loads) when operated on the specified natural gas fuel and at the Basis Conditions.

HEAT RATE GUARANTEE:

The hear rate shall not be more than 10,504 BUT/kWh (LHV) when operated on the specified natural gas fuel at Basis Condition.

BASE CONDITIONS

Fuel	natural gas
Load	base
Ambient Temperature	90 F
Barometric Pressure	14.696 PSIA
Ambient Relative Humidity	60%
Fuel LHV@77F	21,086 BTU/LB
Fuel Temperature	50 F
Water Fuel Ratio	less than or equal to 1.5/1.0
Generator Power Factor	9/.95
Frequency	60Hz.

Schedule TJR-3.11
Includes partial response to
OPC DR No. 14 and MPSC
Staff DR No. 5

Contact Milt Fyre for more details.
Phone: 503-239-5157
Fax: 503-239-5136
Email: milt@rmaglobal.com

Main Entrance

Schedule TJR-3.12
Includes partial response to
OPC DR No. 14 and MPSC
Staff DR No. 5

Robertson, Ted

From: equipment@ogjexchange.com [glp@ogjexchange.com]
Sent: Monday, February 07, 2005 10:18 AM
To: ted.robertson@ded.mo.gov
Cc: Paul Westervelt
Subject: RE: Global Equipment Exchange Product Request

Ted,

Estimated pricing is $15 million each

Regards, Randy Hall
PennEnergy
713-499-6330

-----Original Message-----
From: ted.robertson@ded.mo.gov [mailto:ted.robertson@ded.mo.gov]
Sent: Friday, February 04, 2005 4:11 PM
To: equipment@ogjexchange.com
Subject: Global Equipment Exchange Product Request

Auction Item Name: 92.6MW Westinghouse (Fiat) 501 D5 GTG
Auction Item Number: 12547
ISO Rating: 92.6
Request Info: Current ballpark pricing per unit.

First Name: Ted
Last Name: Robertson
Phone:
Fax:
Address: ted.robertson@ded.mo.gov
City:

For sale - gas turbines, line pipe, diesel generators, pumping units

Friday, February 04, 2005

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Power Generation : Gas Turbine Gen Sets (10MW & Larger) : 92.6MW Westinghouse (Fiat) 501 D5 GTG

Item # 12547:	92.6MW Westinghouse (Fiat) 501 D5 GTG	Manufacturer: Westinghouse (Fiat)	More Info...

Quantity: 6 **ISO Rating:** 92.6
List Date: 12/18/2003
Comments:
Description:
92.6MW Westinghouse 501 D5 GTG, 50Hz, 15kV, dual fuel, built by Fiat under Westinghouse license in 1980 and upgraded in 1993. Approx 9,000 hours since new and 3,700 hours since upgrade. Includes enclosure, Power Logic 11 Control system, 15kV switch gear, transformers, tools and maintenance equipment, 5/60 ton bridge crane, etc. (6) units available at price of USD14.5 million each, as is where is, subject to prior sale. Cost to convert to 60Hz is $4 million each.

"For more information, photos, or to set up an inspection, please inquire using the "More Info" button.

Other Information:
Click Images to enlarge

Power N

Vattenfall bec largest shareh Elsam
Feb-04-2005

Sumitomo, J-I win $7m Singa power cable o
Feb-04-2005

US Power Par agree to reduc greenhouse g emissions
Feb-04-2005

Oil & Gas

Surging Asian dominates wo energy outloo
Feb-04-2005

MARKET WAT Energy prices low draw of na gas
Feb-04-2005

Kazakhstan bu half of BG's K share
Feb-03-2005

Robertson, Ted

From: equipment@ogjexchange.com [glp@ogjexchange.com]
Sent: Thursday, February 03, 2005 2:30 PM
To: ted.robertson@ded.mo.gov
Cc: Paul Westervelt
Subject: RE: Global Equipment Exchange Product Request

Ted,

Thank you for your inquiry. Current pricing is around $13 million USD each, as is where is, subject to prior sale.

Regards, Randy Hall
PennEnergy
713-499-6330

-----Original Message-----
From: ted.robertson@ded.mo.gov [mailto:ted.robertson@ded.mo.gov]
Sent: Thursday, February 03, 2005 2:28 PM
To: equipment@ogjexchange.com
Subject: Global Equipment Exchange Product Request

Auction Item Name: MHI M501F Gas Turbine Generator (GTG)
Auction Item Number: 35102
ISO Rating: 156
Request Info: Ballpark pricing info.

First Name: Ted
Last Name: Robertson
Phone:
Fax:
Address: ted.robertson@ded.mo.gov
City:

For sale - gas turbines, line pipe, diesel generators, pumping units

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Power Generation : Gas Turbine Gen Sets (10MW & Larger) : MHI M501F Gas Turbine Generator (GTG)

Item # 35102: MHI M501F Gas Turbine Generator (GTG) Manufacturer: MHI More Info...

Quantity:	3	**ISO Rating:**	156
List Date:	03/16/2004		

Comments:

Description:
Three (3) GTG Manufacturer: MHI Gas Turbine Model: M501F Generator: 218.733 MVA Air Cooled (TEWAC) 0.9 PF, 18 kV, 60 Hz Generator Manufacturer: MELCO Auxiliary Systems: Inlet Air System with Evaporative Cooler Exhaust System Lube Oil System Control Oil System Rotor Turning Equipment Starting Motor Heat Exchangers (Lube Oil Cooler, Turbine Rotor Air/Fuel Gas Heater) Fire Protection System (CO2) Fuel Gas Control System Compressor Water Wash System Gas Turbine Control and Electrical Systems GTG and Auxiliaries Enclosures with Ventilation

"For more information, photos, or to set up an inspection, please inquire using the "More Info" button.

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Cover Photo Baglan Bay power station in South Wales powered by General Electric's steam cooled H-technology turbine

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Genset Plant Pricing

Genset	Base Load Rating	Heat Rate Btu/kWh	Efficiency	Plant Price	Per kW
PG6111FA	75,900 kW	9760 Btu	35.0%	$ 18,600,000	
PG7121EA	85,400 kW	10,420 Btu	32.8%	$ 16,600,000	
GT11N2	116,500 kW	10,050 Btu	33.9%	$ 19,700,000	$ 169
W501D5A	120,500 kW	9840 Btu	34.7%	$ 19,900,000	
PG9171E	123,400 kW	10,100 Btu	33.8%	$ 20,400,000	
M701DA	144,100 kW	9810 Btu	34.8%	$ 22,400,000	$ 155
V94.2	159,400 kW	9950 Btu	34.4%	$ 24,700,000	$ 155
GT13E2	165,100 kW	9560 Btu	35.7%	$ 27,400,000	
PG9231EC	169,200 kW	9770 Btu	34.9%	$ 27,100,000	$ 160
PG7241FA	171,700 kW	9420 Btu	36.2%	$ 31,250,000	$ 182
GT24	179,000 kW	9098 Btu	37.5%	$ 27,700,000	
V84.3A	180,000 kW	8980 Btu	38.0%	$ 30,700,000	$ 170
PG7251FB	184,400 kW	9215 Btu	37.0%	$ 33,900,000	$ 184
M501F	185,400 kW	9230 Btu	37.0%	$ 29,250,000	
W501F	186,500 kW	9190 Btu	37.1%	$ 31,150,000	$ 167
W501FD	189,500 kW	9190 Btu	37.1%	$ 31,650,000	$ 167
V94.2A	190,700 kW	9660 Btu	35.3%	$ 30,200,000	$ 158
PG9311FA	243,000 kW	9360 Btu	36.4%	$ 38,880,000	$ 160
W501G	253,000 kW	8760 Btu	38.5%	$ 40,300,000	$ 159
PG9351FA	255,600 kW	9250 Btu	36.9%	$ 40,900,000	$ 160
GT26	262,000 kW	8930 Btu	38.2%	$ 38,800,000	
M501G	264,000 kW	8730 Btu	38.5%	$ 41,450,000	$ 157
V94.3A	265,900 kW	8840 Btu	38.6%	$ 42,300,000	$ 159
PG9371FB	268,800 kW	9040 Btu	37.7%	$ 45,700,000	
M701F	270,300 kW	8930 Btu	38.2%	$ 43,200,000	$ 160
M701G	271,000 kW	8820 Btu	38.7%	$ 44,720,000	$ 165
M701G2	334,000 kW	8630 Btu	39.5%	$ 55,700,000	$ 167