

# PROPOSAL

**Presented to:**

**Inercrom Draser PGS C.A.**

**For**

**Caterpillar Units Rental**



By



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**Proposal No. EQU08-1301**

**May 18, 2008**

<p>This document is privileged and contains confidential information intended for use only by the intended recipient.</p>
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## 1.0 Introduction

ProEnergy Services ("ProEnergy") is pleased to provide this proposal to Inercrom Draser PGS C.A. ("Inercrom Draser") for Caterpillar Units for your project located in Venezuela.

ProEnergy will provide forty (40) Caterpillar XQ2000 units (subject to availability) for a one (1) year lease at the time and materials rates included below.

## 2.0 Pricing

### 2.1 Billing Rate

The rates noted in the tables below will be invoiced for each unit.

**Table 1 – Monthly Billing Rate**

<b>Equipment</b>	<b>Monthly Billing Rate per Unit</b>
Caterpillar XQ2000	\$20,000

**Table 2 – kwh Billing Rate**

<b>Item</b>	<b>kwh Billing Rate per Unit</b>
KWH Charge	\$0.0112
Minor Maintenance*	\$0.0022
O&M*	\$0.0055

*\* These services are Optional.*

Note: If preferred, the units can be purchased for \$525,000 per unit (shipping not included).

### 2.2 Mobilization/Demobilization

A flat mobilization and demobilization fee will be charged for each unit. The mobilization fee will be \$8,500 per unit (this includes shipping from Dammam to Venezuela port). The demobilization fee will be \$6,000 per unit (this includes shipping from Venezuela port to USA). These charges are subject to verification and change at time of shipment.

The mobilization and demobilization fees shall be paid in advance.

Inercrom Draser will be responsible for shipments from the port to the site.

## 2.3 Taxes

No sales or use taxes have been included in this proposal. The price quoted excludes any federal, state, local, or in-country taxes, duties, fees, etc. which may be associated with the export, import, lease, or purchase of equipment.

## 2.4 Assumptions/Clarifications

The following assumptions and clarifications apply:

- Each XQ package will be capable of running 1500 kw continuous.
- The kwh charge will be \$0.0112.
- Rent starts the day it arrives at the Venezuela port and ends the day it is loaded out.
- If a unit is not suitable or fails in service, we will work to bring the unit back into service though we are not contractually obligated to do so.
- ProEnergy will be responsible for major repair costs and Inercrom Draser will be responsible for all service costs and minor repair cost.
- Inercrom Draser will be responsible for interconnect between 480v unit and grid.
- Inercrom Draser will be responsible for the insurance on the equipment (estimated value of replacement is \$26 million).

## 2.5 Administration

All expenses incurred will be invoiced at cost plus 15%.

## 3.0 Terms & Conditions

This proposal shall expire within thirty (30) days; provided, however, the terms of this Section and the obligation to treat this proposal as confidential and that it cannot be shared with any third party without the prior written consent of ProEnergy shall survive.

Invoices shall be due and payable within ten (10) days of receipt.

Notwithstanding any term in this proposal or any resulting purchase order/contract to the contrary, in no event shall ProEnergy be responsible for consequential or incidental damages resulting from the use of this proposal or the performance of any work by ProEnergy in relation to this proposal. This proposal shall be subject to the terms and conditions to be mutually agreed upon between ProEnergy and Inercrom Draser.

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#### 4.0 Acceptance

Please return a signed and dated copy of this proposal along with a Purchase Order number to confirm acceptance of this proposal.

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***ProEnergy Services LLC***

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

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***Inercrom Draser PGS C.A.***

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**Attachment A**  
**Caterpillar XQ2000 Specifications**



## XQ2000 SOUND ATTENUATED POWER MODULE 60HZ

### **FEATURES:**

#### ***Emissions***

EPA and CARB Emissions Certified for non-road mobile applications.

#### ***CAT® Diesel Generator Sets***

Factory designed, certified prototype tested with torsional analysis. Production tested and delivered to you in a package that is ready to be connected to your fuel and power lines. Electric Power Design Pro computer sizing available. Supported 100% by your Caterpillar dealer with warranty on parts and labor. Extended warranty available in some areas. The generator set was designed and manufactured in an ISO 9001 compliant facility. Generator set and components meet or exceed the following specifications: AS1359, AS2789, ABGSM TM3, BS4999, DIN6271, DIN6280, EGSA101P, JEM1359, IEC 34/1, ISO3046/1, ISO8528, NEMA MG1-22.

#### ***CATERPILLAR® SR4B Generator***

Single bearing, wye connected, static regulated, brushless permanent magnet excited generator designed to match the performance and output characteristics of the Caterpillar diesel engine that drives it.

#### ***Reliable, Fuel Efficient Diesel***

The compact, four-stroke-cycle diesel engine combines durability with minimum weight while providing dependability and economy. The fuel system operates on a variety of fuels.

#### ***CATERPILLAR® Cooling System***

Sized compatible to rating with energy efficient fan and core.

#### ***CATERPILLAR® Switchgear***

Single unit or optional paralleling components. Circuit breakers, bus bars, and connection panel ready to connect.

#### ***Exclusive CATERPILLAR® Voltage Regulator***

Three-phase sensing and adjustable Volts-per-Hertz regulation give precise control, excellent block loading, and constant voltage in the normal operating range.

#### ***Sound Attenuated ISO Container***

For ease of transportation and protection. Meets 70 dBA at 50 ft or below per SAE J1074 measurement procedure.

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Torre Polar Oeste, Piso 4, Oficina 4-C  
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## XQ2000 SOUND ATTENUATED POWER MODULE 60HZ

### FACTORY INSTALLED STANDARD & OPTIONAL EQUIPMENT:

System	Standard	Optional
<b>Engine</b>	Air cleaner, with service indicator Batteries Filters; fuel, LH with service indicators; lubricating oil Insulated muffler Jacket water heater Pump, fuel priming — LH Radiator Service meter Standard eight-gauge instrument panel Sump pump Governor Electronic ADEM II	
<b>Generator</b>	SR4B brushless, 480 volt, PM excited three-phase with digital voltage regulator, space heater	
<b>Containerized Module</b>	Air intake louvers Bus bar access door Fuel tank — 4730 L (1250 Gal) UL listed Fuel/water separator 110 VAC/24 VDC lighting Sound attenuated (75 dBA @ 50 ft) ISO hi cube container Lockable doors Stainless steel hardware and hinges Vertical radiator and exhaust discharge plenum	
<b>Cooling</b>	Standard cooling provides 110° ambient at prime rating	
<b>Switchgear</b>	Floorstanding switchgear with EMCP II components Automatic start/stop with cooldown timer Battery charger, heavy duty 20A Protection: 32, 59 Circuit breaker, electrically operated Connection terminals, 3-phase and neutral Automatic paralleling Auxiliary power connections for jacket water heater, battery charger, space heaters	Meters: power factor, KW, PF, W/WHM, synchroscope, KVAR Protection: 27, 40, 810, 81U CIM, CCM, remote annunciation Plug and peak shave utility conversion panel

### SPECIFICATIONS:

#### **CAT® SR4B Generator**

Type . . . . . Static regulated brushless PM excited  
Construction . . . . . Single bearing, close coupled  
Three-phase . . . . . Wye connected — 6 lead  
Insulation . . . . . Class H — 2 extra dips and bakes on random wound units  
Enclosure . . . . . Drip proof  
Alignment . . . . . Pilot shaft  
Overspeed capability . . . . . 130%  
Voltage regulator . . . . . 3-phase sensing with Volts-per-Hertz  
Voltage regulation . . . . . Less than  $\pm 0.5\%$

Voltage gain . . . . . Adjustable to compensate for engine speed droop and line loss  
Wave form . . . . . Less than 5% deviation  
TIF . . . . . Less than 50  
THD . . . . . Less than 3%

#### **CAT® 3516B Engine**

V-16, 4-stroke-cycle diesel  
Bore — mm (in) . . . . . 170 (6.7)  
Stroke — mm (in) . . . . . 190 (7.5)  
Displacement — L (cu in) . . . . . 69.0 (4210)  
Aspiration . . . . . Turbocharged-Aftercooled

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Venezuela

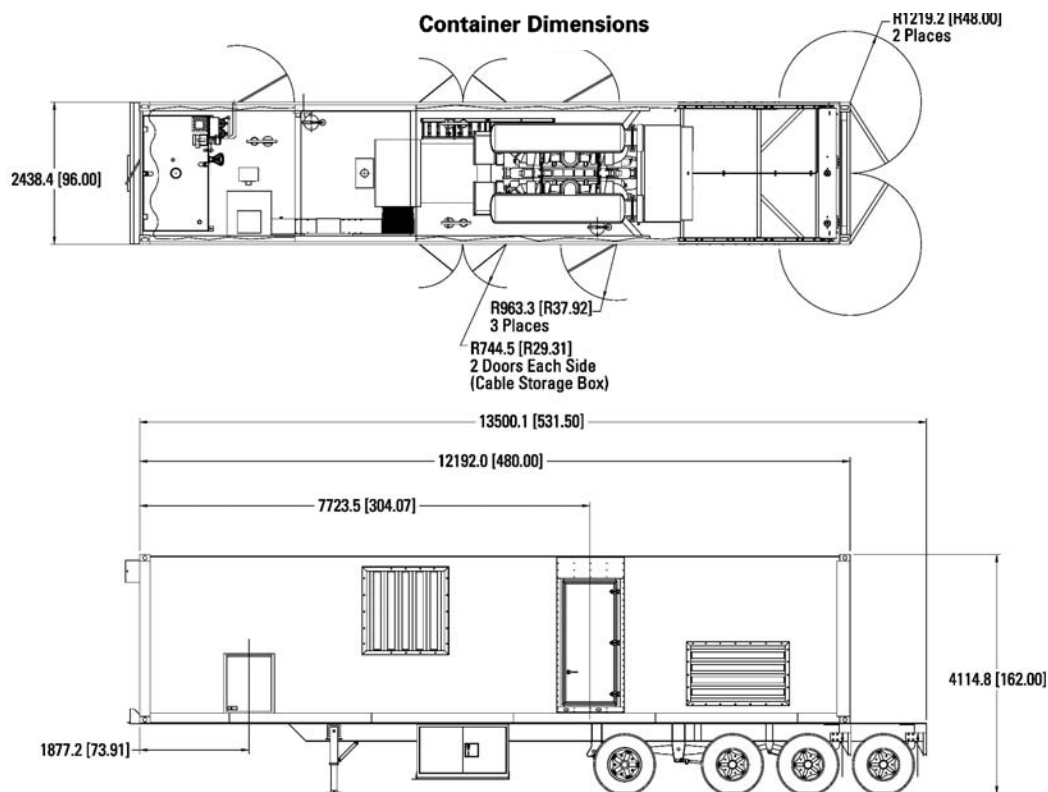


## XQ2000 SOUND ATTENUATED POWER MODULE 60HZ

### TECHNICAL DATA:

<b>Power Rating</b> 60 Hz	ekW	<b>Standby</b> 2000	<b>Prime</b> 1825
<b>Engine and Container Information</b> Engine Model Container size Container dimensions	m (ft)	3516B 12 (40) see below	
<b>Fuel Capacity Hours of Operation</b> at 60% Load Factor 4732 L (1250 Gal) Standard 12 m (40 ft)	hours	8	9
<b>Approximate Weight (Dry) —</b> <b>Container with Generator Set and Switchgear</b> Including Container With Undercarriage	kg (lb) kg (lb)	32 660 (72,000) 40 370 (89,000)	

**Container Dimensions**



The power module must have support under the center when set on the ground.

Dimensions		
<b>Length</b>	13500.1 mm	531.50 in
<b>Width</b>	2438.4 mm	96.00 in
<b>Height</b>	4114.8 mm	162.00 in

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Venezuela







## XQ2000 SOUND ATTENUATED POWER MODULE 60HZ

### **STANDARD CONTROLS:**

#### **12 m (40 ft) Containers 480V/60 Hz**

Floorstanding switchgear includes the following functions and features:

#### **Electronic Modular Control Panel (EMCP II) Components Generator Set Control (GSC)**

##### **Monitoring**

Sequentially rotating, backlit LCD display of engine hours, engine rpm, DC battery voltage, oil pressure, and water temperature. Includes pushbutton to hold display on any single parameter.

##### **Protection**

##### **Shutdowns:**

Overspeed, overcrank, high water temperature, low oil pressure, and emergency stop. With LED indicator for each condition.

##### **Alarms:**

Low coolant level

##### **AC Metering**

Three-phase volts (L-L), amperes and frequency with phase select pushbutton, on backlit LCD. Metering accuracy is 0.5%.

##### **Control**

Automatic starting with field adjustable cycle crank, failure to start (overcrank), and cooldown timer.

##### **Programming and Diagnostics**

Includes field programmable set-points for engine control and monitoring variables and self diagnosis of EMCP II system component and wiring failures.

#### **Alarm Module**

Flashing LED warnings for: low coolant temperature, high coolant temperature (pre-alarm), low oil pressure (pre-alarm), engine control switch not in automatic, and low DC voltage. Includes alarm horn and acknowledge pushbutton.

#### **Engine Control Switch**

Snap action rotary switch, four-position — off/reset, automatic, manual, stop/cooldown. Off/reset for engine shutdown and resetting faults, automatic for remote starting by customer contact closure, manual for local starting and manual paralleling, stop/cooldown for manual operation cooldown.

#### **Alarm Acknowledge/Lamp Test Switch**

Three-position, spring return to center switch for alarm acknowledge and lamp test of all discrete indicating lamps. Lamp test shall also sound the alarm horn.

#### **Annunciation Circuits**

Upon receipt of an alarm or shutdown condition, the horn shall sound and an LED shall flash. Upon acknowledgement from alarm acknowledge/lamp test switch, the horn shall be silenced and the lamp steadied. LED shall be extinguished when ECS is placed in the off/reset position if the alarm condition has been corrected. Circuits are recurring such that the LED shall flash and the horn sound, should another fault occur even prior to correction of the initial fault.

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## XQ2000 SOUND ATTENUATED POWER MODULE 60HZ

### **STANDARD CONTROLS (continued):**

#### **Emergency Stop Pushbutton**

Mushroom head, twist to reset, causes engine shutdown and tripping of the generator circuit breaker. Prevents engine starting when depressed.

#### **Manual Paralleling**

Controls consisting of reverse power relay, synchronizing lights, and switch. Reverse power condition causes tripping of the generator circuit breaker, immediate engine shutdown, flashing of indicating lamp, and sounding of alarm horn.

#### **Circuit Breaker**

Fixed mounted, three-pole, manually operated, molded case circuit breaker with solid state trip unit for overload (time overcurrent) and fault (instantaneous) protection. Includes DC shunt trip coil activated on any generator set monitored fault. Circuit breaker is sized for full load capacity of the generator set at 0.8 power factor.

#### **Load Share Governor**

Electronic load sharing governor with speed adjust potentiometer, idle/rated switch, and isochronous/droop switch.

#### **Voltage Regulator**

Standard Caterpillar generator-mounted digital voltage regulator with voltage adjust rheostat mounted in the floorstanding switchgear.

#### **Current Transformers (3)**

Five-ampere secondary with shorting terminal strips

#### **Potential Transformers (3)**

120 VAC secondary with primary and secondary fuse protection, two connected to the generator side of the circuit breaker, one connected to the load side of the circuit breaker.

#### **Bus Bars**

Three-phase plus fully rated neutral bus bars with NEMA standard hole pattern for connection of customer load cables and generator cables. Bus bars are sized for full load capacity of the generator set at 0.8 power factor. Also includes ground bus, connected to the generator frame ground and container frame with holes for connection of field ground cable. Bus bars are accessible from outside of the power module via hinged, lockable cable access door.

#### **Accessory Power**

3500 Power Modules

Three 230 VAC (50 Hz units) or 120 VAC (60 Hz units) shore power connections for jacket water heaters, generator space heater, and battery charger.

#### **Battery Charger**

24 VDC/20A battery charger with float/equalize modes and charging ammeter.

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