



Wing Solar & Wood Energy, Inc.  
 22040 Manor Lane  
 Red Bluff, CA 96080  
 (530)527-0557 (800)492-4061  
 Fax (530)528-2702

Exhibit KR-4

# Estimate

Date	Estimate #
9/19/2017	1534

Konrad

Alan Wing: cell (530)736-8528  
 alanwing@wingsolar.net  
 Gary Cole: cell (530)736-2612  
 garycole@wingsolar.net

			Project/PO#	
Item	Description	Qty	Rate	Total
311-0035	PV - Inverter 8000 Watt 48Volt 120/240 Grid Tie w/ Battery Backup - OutBack Radian	3	5,017.58667	15,052.76T
341-0100	PV - Load Center w/ FLEXnet DC W/3 shunts, 120/240VAC Inverter bypass, dual AC inputs for Outback Radian GSLC 175-PV-120/240System	1	1,500.79	1,500.79T
341-0099	PV - Load Center w/ 175A Breakers & Inverter Bypass Radian OutBack	2	1,134.37	2,268.74T
570-0830	PV - System Manager for Radian Inverters OutBack MATE3	1	502.53	502.53T
570-0783	PV - Communications Manager OutBack	1	317.24	317.24T
IS	Installation Supplies Battery Cabling, wire etc..	1	3,360.00	3,360.00T
USRE-L16XC	Battery - 6V 401A 915RC RE US Battery	32	434.0125	13,888.40T
NT2000GF	Battery - Filling Tank, Gravity 5 Gallon	1	76.44	76.44T
K2400	Battery - Cell-24 Filling System for L16 Batteries	4	208.60	834.40T
520-0055	PV - Charge Control 80 Amp MPPT OutBack	6	839.25	5,035.50T
USE10-1	Wire - #10 UV USE-2 7 Strand for PV Panels	900	0.35	315.00T
501-0021	PV - Lightening Arrestor AC 12/0/240 V Single Phase	1	73.53	73.53T
501-0020	PV - Lightning Arrestor DC 0-500 V Line	6	70.00	420.00T
510-0006	PV - Array Combiner 6 Breakers or 4 Fuse Holders	3	163.62	490.86T
530-0042	PV - Breaker DC 15 Amp OutBack/Midnite Solar	28	17.16	480.48T
110-0980	PV - Panel 265W, Black Frame, Canadian Solar	84	305.28	25,643.52T
IS	Installation Supplies Mounting for metal roofing	84	49.32095	4,142.96T
IS	Battery Box	1	1,200.00	1,200.00T
UG 30 EX	Generator - 30 KW UG Extreme Machine w/200G Fuel Tank	1	24,437.50	24,437.50T
	Subtotal of Materials			100,040.65

<b>Subtotal</b>
<b>Sales Tax (7.25%)</b>
<b>Total</b>

Signature & Date



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Item	Description	Qty	Rate	Total
LABOR	Labor Charges for Services Rendered	287	60.00	17,220.00
Help Labor	Help Labor or Travel Time	63.75	50.00	3,187.50
Freight	Freight on Parts Shipped	1	600.00	600.00

<b>Quote valid for 30 days from date</b>	<b>Subtotal</b>	\$121,048.15
	<b>Sales Tax (7.25%)</b>	\$7,252.95
<b>Signature &amp; Date</b> _____	<b>Total</b>	\$128,301.10

Kubota Custom UG Extreme Machine 30kW



(Enlarge)

The Custom made Kubota Model UGE-30 Series is a Super Quiet Series generator with 30 kW continuous power output at 60 Hz, tier 4 compliant. These industrial generators are suitable for prime power and standby use. When you require the dependability of an industrial grade generator the UGE Series is for you. Our custom built generators are available in several models from 8.5kW to 250kW available in single and three phase and priced competitively to deliver the performance and value found only on more expensive competitors models. Standard features include an upgraded powder coated weather sound attenuated enclosure, a 2 wire auto start module, a quieter residential muffler, a larger extended run time base tank, an on board circuit breaker, unit mounted solid state regulator, a 2 amp battery charger and a starting battery, battery rack and cables.

**United Generator's Super Silent** custom built Kubota and John Deere generators provide reliable power to meet the most demanding requirements. We use the same engines as the factory built models and the best Newage / Stamford alternators available. These generators are designed and built to withstand tough environments at construction sites, provide prime power for off the grid applications and dependable temporary clean power at entertainment venues and disaster recovery operations. By utilizing the latest state of the art voltage regulation and the highest quality solid state circuit boards our generators are safe to use with sensitive equipment like computers, cell phones and any where clean power is needed. Our easy to maintain design offers quick access to all drain extensions and filters, which can be cross referenced at any auto store, making routine maintenance even easier.

We upgraded this unit to a quiet residential muffler, mounted it on a 200 gallon extended run time fuel tank, added an electric transfer fuel pump and included a free 2 wire auto start module. We upgraded the enclosure to a sound attenuated aluminum powder coated weather enclosure for longevity, rust resistance and super quiet operation. This unit includes every upgraded feature our customers repeatedly ask for making it turn key ready for a commercial or residential back up or an off the grid primary power source.

This model features a premium Kubota model V3300, 4 cylinder, diesel fueled, liquid cooled engine with electric start. This model runs at 1800 RPM and generates 30 kW (28 kVA) 60 Hz of clean stable continuous power at a primary voltage of 120/240 VAC, single phase, 60 Hertz. Mecc Alte alternator ends (best available) <http://www.meccalte.com/>

The price includes a factory warranty of 24 months

MODEL	Unit	UGE 30
Type	-	Rotating field single-phase AC generator
Frequency	Hz	60
Standby Output	kW	30
Prime Output	kW	28
Voltage - Single Phase	V	120/240
Armature Connection	-	Series
		1
Phase Single	-	we can make this a 3 phase model as well
Power Factor	-	1.0
No. of Poles	-	4
Insulation	Class	Rotor coil: class H

Type of Coupling	-	Direct coupled
<b>AMPS</b>		
Single Phase 120V	A	2 X 125
Single Phase 240V	A	125
NO. OF RECEPTACLES = 0. Connections are made via hardwire to circuit breaker		
5-15R (GFCI)	-	-
5-20RA (GFCI)	-	0
6-15R	-	-
L5-30R	-	0
L6-30R	-	-
CS-6369	-	0
<b>TERMINAL</b>		
Terminal	-	NA
<b>DIESEL ENGINE</b>		
Type	-	Vertical, liquid-cooled, 4-cycle diesel engine
Model	-	V3300 N
No. of Cylinders	-	4
Bore x Stroke	(in.)	(3.86 x 4.33
Displacement	(cu. in.)	(202.53)
Engine Speed	rpm	1800
Continuous Rated Output	Kw	30
Lubricant (API classification)	-	Above CF grade
Oil Capacity	L (qts.)	9.5 (10.0)
Coolant Capacity	L (qts.)	7.8 (8.2)
Starting System	-	Electric - 12 volt DC
<b>SET</b>		
Fuel	-	Diesel fuel No.2 (ASTM D975)
	at Full Load	(gal./h)
		(gal./h)
Fuel Consumption	at 3/4 Load	(1.64)
	at 1/2 Load	(1.18)
	at 1/4 Load	(.83)
Fuel Tank Capacity	gal.	200
Continous Operation Hours	at Full Load	h
	at 3/4 Load	h
	at 1/2 Load	h
	at 1/4 Load	h
Battery (Ah/5h) included	-	(12V x 64Ah)
Dimensions genset mounted on 200 gal fuel tank L x W x H	(in.)	71 x 30 x 55
Approx. Net Weight	(lbs.)	1800
Sound Level (Full Load at 23 ft. [7m])	dB (A)	64.0
Emergency Stop System	-	In case of abnormal: oil pressure, water temperature, fan belt broken