

GOVERNMENT OF PUERTO RICO
PUERTO RICO ENERGY AFFAIRS ADMINISTRATION

Tier 1 Reference Guide



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Chapter One General

I. Title and Introduction

This Guide shall be known as the “**Tier 1 Reference Guide**” or the “**Guide**”.

As per Regulation Num. _____ of 2011, known as the Green Energy Fund Regulation (the “Regulation”) PREAA issues this guide to define and publish requirements and eligibility criteria under the Tier 1 Program.. Every quarter of each fiscal year (FY), an updated Guide will be issued and published. Otherwise, the terms of the previous Guide will be deemed extended to the following quarter.

The purpose of this Guide is to define Green Energy Technologies that are eligible to participate in the Tier 1 incentive rebates under the Regulation, the maximum reimbursement percentage established for each one of these technologies, approved incentive funding caps, among other requirements.

II. Definitions

The following terms as used in this Guide shall have the meaning ascribed to them below. Terms not defined herein shall have the meaning ascribed to such term in Act No. 83 of July 19, 2010 and in the Regulation.

2.1 **Act** shall mean Act No. 83 of July 19, 2010.

2.2 **Green Energy Technologies (GETs)** shall mean the eligible and commercially available, green energy technologies for the production of Alternative Renewable Energy and Sustainable Renewable Energy, as approved from time to time by PREAA, listed in Section III of Chapter Two of this Guide.

2.3 **Reference Costs** shall mean the maximum acceptable Total Project Cost per installed Watts of System Capacity according to its technology and system size, as described in this guide. Reference Costs are used to determine the Total Incentive Amount to be granted. Reference Cost are based on reasonable and supported criteria, including but not limited to the following:

- 2.3.1. National market reports
- 2.3.2. Local market statistics, which may be compiled by PREAA based on previous years Green Energy Projects developed in the island
- 2.3.3. Local constraints and particular conditions to develop Green Energy Projects in the island
- 2.4. **Solar Photovoltaic (PV) System** shall mean a system that produces electricity directly from sunlight.
- 2.5. **System Capacity** shall be defined as follows:
 - 2.5.1. For Photovoltaic (PV) System, shall be based on the lesser of:
 - 2.5.1.1. The sum of the AC nameplate capacity (kW) of the inverters installed; or,
 - 2.5.1.2. The sum of the individual DC nameplate capacity ratings of PV Modules.
 - 2.5.2. Small Wind Power System: shall be based on the “AWEA Rate Power” definition provided in AWEA Small Wind Turbine Performance and Safety Standard (Standard 9.1-2009) for small wind power systems (turbines with rotor areas up to 200m²). Larger turbines shall be based on the turbine rated power output at 11 m/s per IEC 61400-12.
- 2.6. **Tier 1** shall mean any GEP that has a System Capacity of up to and including one hundred (100) kilowatts (kW).
- 2.7. **Total Incentive Amount** shall mean the total amount determined by PREAA to be reserved for a GEP as notified in a Rebate Reservation Notice, calculated as stated in Section V of Chapter Two of this Guide.
- 2.8. **Total Project Cost** shall mean the total eligible projects cost as defined in the Regulation.
- 2.9. **Wind Energy System** shall mean a system that produces electricity through the conversion of kinetic energy of wind, captured by turbines.

Chapter Two

Tier 1 Projects

I. Fund Assignments

The total fund assignment under the Tier 1 Program is \$8,000,000 for fiscal year 2011-2012. Incentives are expected to be available through June 30, 2012 or until funds are fully committed, whichever comes first.

Total assigned funds will be distributed through Funding Cycles as described below. Unused funds will be added to the next funding cycle.

II. Funding Cycles and Distribution

Funding Cycles	Available Funds
July 1- December 31	\$4,000,000
January 1 - June 30	\$4,000,000

These funds will be available to the following customer classes in the amounts shown below: Unused funds by one Customer Class may be transferred to another Customer Class within the same funding cycle or to the next funding cycle. Funds will be available to the following customer classes as follows:

Funding Distribution by Customer Class (for each cycle)

Type of Customer	Available Funds
Residential	\$2,000,000
Commercial or Industrial	\$2,000,000

III. Application and Reservation Fees

Application Fee

Applicants will be required to pay a non-refundable Application Fee in order to submit an Application. The Fee structure is described below:

Application Fees

GEP System Capacity	Application Fee
Less than or equal to 25 kW	\$250
Greater than 25 kW, up to and including 100 kW	\$1,000

Reservation Guarantee

Applicants will be required to deposit a Reservation Guarantee upon execution of the Reservation Agreement. This deposit will guaranty completion of the GEP on schedule and in accordance with the terms and conditions of Act 83, the Regulation and the Reservation Agreement executed thereunder.

The Reservation Guarantee may be satisfied by Applicant through (i) the deposit with PREAA of the amount provided below, or (ii) presenting PREAA a Performance Bond in form and substance acceptable to PREAA to secure an amount equal to the Reservation Guarantee. PREAA may make draws under the Performance Bond or the deposit to the extent that, as determined by PREAA, Applicant fails to develop, construct and initiate operation of the GEP on schedule or in accordance with the terms and conditions of Act 83, the Regulation and the Reservation Agreement. Forfeiture of the Reservation Guarantee shall be in addition to not receiving the incentive. The Reservation Guarantee shall be maintained until the later of six (6) months after the date of scheduled completion of the GEP or the date when claims thereunder shall have been paid to PREAA.

PREAA will refund the Reservation Guarantee deposit or return the Performance Bond, as applicable, to the Applicant upon successful completion of the GEP. The applicable Reservation Guarantee structure is detailed below:

Reservation Guarantees

GEP System Capacity	Reservation Guarantee
Less than or equal to 25 kW	\$1,000
Greater than 25 kW, up to 100 kW	1% of Total Project Cost

IV. Eligible Green Energy Technologies (GET)

Applicants will be eligible to submit Proposals during the 1st Funding Cycle of for FY12 for GEPs utilizing GETs that fall within one or more of the following categories:

- Solar Energy (photovoltaic “PV”)
- Wind Energy

Unless otherwise published by PREAA, the same technologies will qualify for subsequent Funding Cycles.

V. Incentive Amounts

Upon compliance with all requirements and criteria under the Regulation and this Guide, the following methodology will be used to calculate the Total Incentive Amount:

1. Total Project Cost is multiplied by the respective GET reimbursement percentage to determine the requested incentive amount.
2. The Total Project Cost is divided by the System Capacity to determine the cost per installed Watts, expressed in (\$/W).
3. If the cost per installed Watt is less than (<), or equal to (=) the applicable Reference Cost (\$/W), then:

Total Incentive Amount = Requested rebate amount

4. If the Cost per installed Watt is greater than (>) the applicable Reference Cost, then:

Total Incentive Amount = System Size multiplied by the Reimbursement Percentage (%) multiplied by the Reference Cost

Under no circumstances, will the Total Incentive Amount exceed 60 percent (%) of the Total Project Cost using the Reference Cost as a maximum per installed Watts (as shown above). The following reimbursement percentages and Reference Cost will be used to determine the Total Incentive Amount to be awarded to eligible GEPs utilizing the above methodology.

Eligible GET	System Capacity	Rebate Reimbursement Percentage (%)	Reference Cost
Solar Photovoltaic (PV)	Less than or equal to 25 kW	60%	7.5 \$/W
	Greater than 25 kW, up to 100 kW	60%	6.5 \$/W

Small Wind Turbine (SWT)	Less than or equal to 25 kW	60%	7.0 \$/W
	Greater than 25 kW, up to 100 kW	60%	6.5 \$/W

VI. Technology-Specific Requirements

Eligible GET	Technical Requirements
Solar Photovoltaic (PV)	<p>Estimated production (kWh) shall be based either on a precise system modeling using local resource and meteorological data or on at least six (6) months of solar resource data at site.</p> <p>Under no circumstances shall the estimated production for a given Solar PV system be less than eighty percent (80%) of the established minimum rated output.</p> <p>The PV system shall not be sized greater than the facility's highest peak load in any one hour. Any wind system sized above this amount will not be eligible to receive an incentive.</p>
Wind	<p>Applicant must have collected at least six (6) months of wind resource data at the propose hub height or have a wind resource assessment report from a qualified meteorological station or a professional and reputable wind mapping service, provided any such source or service is typically acceptable to financial institutions when evaluating bankability of a project.</p> <p>Estimated production (kWh) shall be calculated using wind data obtained, and all energy production calculations should use a field-tested power curve for the wind turbine and consider key factors such as tower height, wind shear, turbulence, Weibull K factor, and site altitude.</p> <p>The tower height must be a minimum of 60 feet and wind turbine blades must be 30 feet above any obstruction objects (i.e. trees, building or other obstacles within a 300-foot radius). At the applicant's chosen eligible hub height, there must be a minimum annual average wind speed of 10 mph (approximately 4.5 m/s).</p> <p>The equipment shall be sized such that the electricity production from the unit is not greater that 80% of the average load demand of the facility based on the past twelve (12) months' usage data. Any wind system sized above this amount will not be eligible to receive an incentive.</p>

VII. Insurance Requirements

Applicants, directly or through Installers or System Owners, must meet and maintain the same policies of insurance required in OGPe Joint Regulation of Permits for Construction Works and Land Use (Joint Regulation), Title XII, Chapter 55, Rule 55.6(d), as such requirements may be amended from time to time. Policies shall be issued by insurance companies authorized to do business in Puerto Rico, and to that effect they shall provide in original certificates of insurance and endorsements, as follows:

- (a) Include as Additional Insured, using ISO Additional Insured Endorsement CG 20 26 11 85 or a substitute providing equivalent coverage:

Puerto Rico Energy Affairs Administration
c/o PRIDCO Insurance Office
#355 FD Roosevelt Avenue
Suite 404 Hato Rey, Puerto Rico 00918
Tel.787-758-4747
Fax: 787-764-1415

- (b) A thirty (30) Days' cancellation or nonrenewable notice to be sent by certified mail with return receipt to the above address.
- (c) An endorsement including the Reservation Agreement under contractual liability coverage and identifying it by number, date and the Parties.
- (d) Waiver of Subrogation in favor of PREAA.
- (e) The breach of any of the Warranties or Conditions in these policies by the Applicant, Installer or System Owner, as applicable, shall not prejudice PREAA's rights under the policies.

VIII. Supplemental Information; Incentive Calculation Examples

Example #1: A home-owner decides to install a 3,000 watt or 3 kW Solar PV system at higher residence. According to the Project Pricing Quote, the Total Project Cost is \$30,000. Applicant enters the respective technology, system capacity, and Total Project Cost to its Application form.

The system will use entered information to determine the Total Incentive Amount eligible for the Applicant. The following calculations are performed in accordance to the methodology described above:

1. Total Project Cost (\$) X Reimbursement (%) = Requested Incentive
= \$30,000 X 60% = **\$18,000**
2. System calculates if the Cost per installed Watt (\$/W) is greater than, less than or equal to (<,>, =) the Reference Cost (\$/W)

$$\$30,000/3,000= 10 \$/W$$

Since, $10.0 \$/W > 7.5 \$/W$, then,

3. Total Incentive Amount= 3,000 (W) X 60% X 7.5 (\$/W)
Total Incentive Amount= \$13,500

Example #2: A Commercial Applicant decides to install a 20,000 watt or 20 kW Solar PV system at his facility. According to the Project Pricing Quote, the Total Project Cost is \$ 130,000. Applicant enters the respective technology, system capacity, and Total Project Cost to the Online Rebate Application System.

The system will use entered information to determine the Total Incentive Amount eligible for the Applicant. The following calculations are performed in accordance to the methodology described above:

1. Total Project Cost (\$) X Reimbursement (%) = Requested Incentive
= \$130,000 X 60% = **\$78,000**
2. System calculates if the Cost per installed Watt (\$/W) is less than, greater than or equal to (<,>, =) the Reference Cost (\$/W)
 $\$130,000/20,000= 3.9 \$/W$
Since, $6.5 \$/W \leq 6.5 \$/W$, then,
3. Total Incentive Amount= 20,000 (W) X 60 (%) X 6.5 (\$/W)
Total Incentive Amount= \$78,000

IX. Approved Small Wind Turbines

For wind turbines to be eligible for incentives under the GEF, they must be certified according to the Joint Regulation of Permits for Construction Works and Land Use (Joint Regulation), Title XII, Chapter 55. Specifically they must comply with requirements established in Regulation No. 7796 (Regulation for the Certification of Renewable Energy Systems) of PREAA and procedures established in Rule 55.2.2 of the Joint Regulation.

Only commercially available wind turbines with a proven record for power performance, reliability, safety, and acoustics will be considered for funding. The table below lists the wind turbines that are eligible to receive an incentive under the GEF. For additional information on equipment manufacturers, visit the American Wind Energy Association's website.

MANUFACTURER	MODEL
Abundant renewable energy (Xzeres Wind)	ARE 110
Abundant renewable energy (Xzeres Wind)	ARE 442
Bergey Windpower	BWC XL.1
Bergey Windpower	BWC EXCEL - R
Bergey Windpower	BWC EXCEL - S
Endurance Wind Power	S-343
Endurance Wind Power	E-3120
Energie	PGE 20/35 1 phase
Energie	PGE 20/35 3 phase
Energie	PGE 20/50
Enertech	E-13
Enertech	E-48
Entegrity Wind System	EW15
Eoltec	Scirocco E5.6-6
Fortis	Montana 3.1m, Alize 7.1m
Gaia-Wind	11kW
Northern Power Systems	North Wind 100 (19m, 20m, 21m)
Proven Energy	Proven 7, 11, 35-2
REDriven, Inc.	5kW, 10kW, 20kW, 50kW
Seaforth Energy	AOC 15/50
Southwest Windpower	Whisper 200, Skystream 3.7, Whisper 500
Venteras	VT 10
Vesta	V15 1ph, V15 3ph, V17
Wind Energy Solutions	WES 5, 18, 30
Wind Turbine Industries	23-10, 23-12.5, 26-15, 26-17.5, 31-20

X. System Performance Metering Requirements

As required in Article 6.11 of the Regulation, all GEP recipients are required to install, as part of their Total Project Cost, a System Performance Meter to account for and to determine the amount of green energy production of the GEP. Meters must meet or exceed the following requirements:

System Capacity	Minimum Meter Accuracy
Less than or equal to 25 kW	±5%
Greater than 25 kW, up to 100 kW	±2%

Accuracy ratings must be certified by a Nationally Recognized Technological Laboratory (NTRL) (e.g. UL or TUV). A list of qualified System Performance Meters is provided below. Any meter not included in this list, and in compliance with the aforementioned requirements must be qualified by PREAA.

Manufacturer Name	Model Number
ABB/Elster	1S
ABB/Elster	2S
ABB/Elster	3S
ABB/Elster	A3 Alpha
ABB/Elster	A3D Alpha
ABB/Elster	A3K Alpha
ABB/Elster	A3R Alpha
ABB/Elster	A3T Alpha
ABB/Elster	AB1
ABB/Elster	AB1
ABB/Elster	ABS
ABB/Elster	ABS
ABB/Elster	Alpha
ABB/Elster	AlphaPlus
ABB/Elster	AlphaPlus - A1D+
ABB/Elster	AlphaPlus - A1K+
ABB/Elster	AlphaPlus - A1R+
ABB/Elster	AlphaPlus - A1T+
ABB/Elster	AlphaPlus - A1TL+
ABB/Elster	REX
Accuenergy	Acuvim II
Accuenergy	Acuvim IIR
Accuenergy	Acuvim-AL
Accuenergy	Acuvim-BL
Accuenergy	Acuvim-CL
Accuenergy	Acuvim-DL
Accuenergy	Acuvim-EL
AMETEK Power Instruments	Ci20
AMETEK Power Instruments	DPMS X1
AMETEK Power Instruments	DPMS XL
AMETEK Power Instruments	DPMS XL+
AMETEK Power Instruments	DPMS XPQ
AMETEK Power Instruments	DPMS-PM
AMETEK Power Instruments	JEMStar

Manufacturer Name	Model Number
Astropower	APM2 SunChoice
BP Solar	HSSM-1
Brand Electronic	20-1850
Brand Electronic	20-1850CI
Brand Electronic	20-CTR
Brand Electronic	21-1850CI
Brand Electronic	4-1850
Brand Electronic	ONE Meter
Brand Electronic	OneMeter
Brultech Research	ECM-1240
Continental Control Systems	WattNode WNB-3D-240-P
Continental Control Systems	WattNode WNB-3D-400-P
Continental Control Systems	WattNode WNB-3D-480-P
Continental Control Systems	WattNode WNB-3Y-208-P
Continental Control Systems	WattNode WNB-3Y-400-P
Continental Control Systems	WattNode WNB-3Y-480-P
Continental Control Systems	WattNode WNB-3Y-600-P
Continental Control Systems	WattNode WNC-3D-240-FT10
Continental Control Systems	WattNode WNC-3D-240-MB
Continental Control Systems	WattNode WNC-3D-400-FT10
Continental Control Systems	WattNode WNC-3D-400-MB
Continental Control Systems	WattNode WNC-3D-480-FT10
Continental Control Systems	WattNode WNC-3D-480-MB
Continental Control Systems	WattNode WNC-3Y-208-FT10
Continental Control Systems	WattNode WNC-3Y-208-MB
Continental Control Systems	WattNode WNC-3Y-400-FT10
Continental Control Systems	WattNode WNC-3Y-400-MB
Continental Control Systems	WattNode WNC-3Y-480-FT10
Continental Control Systems	WattNode WNC-3Y-480-MB
Continental Control Systems	WattNode WNC-3Y-600-FT10
Continental Control Systems	WattNode WNC-3Y-600-MB
Continental Control Systems	WNA-1P-240-FT10
Continental Control Systems	WNA-1P-240-P
Continental Control Systems	WNA-3D-240-FT10
Continental Control Systems	WNA-3D-240-P
Continental Control Systems	WNA-3D-480-FT10
Continental Control Systems	WNA-3D-480-P
Continental Control Systems	WNA-3Y-208-FT10
Continental Control Systems	WNA-3Y-208-P
Continental Control Systems	WNA-3Y-208-TP78
Continental Control Systems	WNA-3Y-400-FT10
Continental Control Systems	WNA-3Y-400-P
Continental Control Systems	WNA-3Y-400-TP78
Continental Control Systems	WNA-3Y-480-FT10
Continental Control Systems	WNA-3Y-480-P
Continental Control Systems	WNA-3Y-480-TP78
Continental Control Systems	WNA-3Y-600-FT10
Continental Control Systems	WNA-3Y-600-P

Manufacturer Name	Model Number
Continental Control Systems	WNB-3D-240-FT10
Continental Control Systems	WNB-3D-480-FT10
Continental Control Systems	WNB-3Y-208-FT10
Continental Control Systems	WNB-3Y-208-PLC
Continental Control Systems	WNB-3Y-400-FT10
Continental Control Systems	WNB-3Y-400-PLC
Continental Control Systems	WNB-3Y-480-FT10
Continental Control Systems	WNB-3Y-600-FT10
Current Cost	Envi CC128
Diehl AKO Stiftung & Co. KG	PLATINUM Webmaster
Draker Solar Design	PVDAQ Basic
Draker Solar Design	PVDAQ Commercial
Eaton	IQ150
Eaton	IQ250
Eaton	IQ260
Eaton Corporation	PXM2250
Eaton Corporation	PXM2260
Eaton Corporation	PXM2270
Electro Industries/Gaugetech	Nexus 1250
Electro Industries/Gaugetech	Nexus 1252
Electro Industries/Gaugetech	Shark 100
Electro Industries/Gaugetech	Shark 100 S
Electro Industries/Gaugetech	Shark 200
Elkor Technologies	WattsOn 1100-5A
Elkor Technologies	WattsOn 1100-MCTA
Elkor Technologies	WattsOn 1100-MCTB
Elkor Technologies	WattsOn 1200-5A
Elkor Technologies	WattsOn 1200-MCTA
Elkor Technologies	WattsOn 1200-MCTB
Elkor Technologies	WattsOn-1100-mA
Elkor Technologies	WattsOn-1200-mA
Elster	A3 Alpha - A3D
Elster	A3 Alpha - A3K
Elster	A3 Alpha - A3R
Elster	A3 Alpha - A3T
Elster	REX R1S
Elster	REX R1SD
E-MON	D-MON 208100 KIT
E-MON	D-MON 208100C KIT
E-MON	D-MON 208100D KIT
E-MON	D-MON 2081600 KIT
E-MON	D-MON 2081600C KIT
E-MON	D-MON 2081600D KIT
E-MON	D-MON 208200 KIT
E-MON	D-MON 208200C KIT
E-MON	D-MON 208200D KIT
E-MON	D-MON 20825 KIT
E-MON	D-MON 20825C KIT

Manufacturer Name	Model Number
E-MON	D-MON 20825D KIT
E-MON	D-MON 2083200 KIT
E-MON	D-MON 2083200C KIT
E-MON	D-MON 2083200D KIT
E-MON	D-MON 208400 KIT
E-MON	D-MON 208400C KIT
E-MON	D-MON 208400D KIT
E-MON	D-MON 20850 KIT
E-MON	D-MON 20850C KIT
E-MON	D-MON 20850D KIT
E-MON	D-MON 208800 KIT
E-MON	D-MON 208800C KIT
E-MON	D-MON 208800D KIT
E-MON	D-MON 480100 KIT
E-MON	D-MON 480100C KIT
E-MON	D-MON 480100D KIT
E-MON	D-MON 4801600 KIT
E-MON	D-MON 4801600 KIT
E-MON	D-MON 4801600C KIT
E-MON	D-MON 4801600C KIT
E-MON	D-MON 4801600D KIT
E-MON	D-MON 4801600D KIT
E-MON	D-MON 480200 KIT
E-MON	D-MON 480200C KIT
E-MON	D-MON 480200D KIT
E-MON	D-MON 48025 KIT
E-MON	D-MON 48025C KIT
E-MON	D-MON 48025D KIT
E-MON	D-MON 4803200 KIT
E-MON	D-MON 4803200C KIT
E-MON	D-MON 4803200D KIT
E-MON	D-MON 480400 KIT
E-MON	D-MON 480400C KIT
E-MON	D-MON 480400D KIT
E-MON	D-MON 48050 KIT
E-MON	D-MON 48050C KIT
E-MON	D-MON 48050D KIT
E-MON	D-MON 480800 KIT
E-MON	D-MON 480800C KIT
E-MON	D-MON 480800D KIT
E-MON	E-CON 2120100-SA KIT
E-MON	E-CON 2120200-SA KIT
E-MON	E-CON 212025-SA KIT
E-MON	E-CON 212050-SA KIT
E-MON	E-CON 2277100-SA KIT
E-MON	E-CON 22772000-SA KIT
E-MON	E-CON 227725-SA KIT
E-MON	E-CON 227750-SA KIT

Manufacturer Name	Model Number
E-MON	E-CON 3208100-SA KIT
E-MON	E-CON 3208200-SA KIT
E-MON	E-CON 320825-SA KIT
E-MON	E-CON 320850-SA KIT
Energy Inc.	TED5000
Energy Recommerce	RETrack 1
Energy Recommerce	RETrack 2
Energy Recommerce	RETrack 3
Energy Tracking	WEMM
Energy Tracking	WEM-MX-120-D
Energy Tracking	WEM-MX-120-DBL
Energy Tracking	WEM-MX-120-ND
Energy Tracking	WEM-MX-240-D
Energy Tracking	WEM-MX-240-DBL
Energy Tracking	WEM-MX-240-ND
Energy Tracking	WEM-MX-480-D
Energy Tracking	WEM-MX-480-DBL
Energy Tracking	WEM-MX-480-ND
Energy Tracking	WEM-MX-ARV-DBL-EFC
Energy Tracking	WEM-MX-ARV-DBL-EFC-333
Energy Tracking	WEM-MX-ARV-DBL-EFC-5A
Energy Tracking	WEM-MX-ARV-DBL-EFC-LC
Energy Tracking	WEM-MX-ARV-DBL-EFC-LC-PO
Energy Tracking	WEM-MX-ARV-D-EFC
Energy Tracking	WEM-MX-ARV-D-EFC-333
Energy Tracking	WEM-MX-ARV-D-EFC-5A
Energy Tracking	WEM-MX-ARV-D-EFC-LC
Energy Tracking	WEM-MX-ARV-ND-EFC
Energy Tracking	WEM-MX-ARV-ND-EFC-333
Energy Tracking	WEM-MX-ARV-ND-EFC-5A
Energy Tracking	WEM-MX-ARV-ND-EFC-LC
ENERNET	K20
Enphase Energy	EMU
Enphase Energy	Envoy
Fat Spaniel Technologies	PV2Web
Fat Spaniel Technologies	PV2Web
Fat Spaniel Technologies	PV2Web for Beacon M5 inverters
Fat Spaniel Technologies	PV2Web for PV Powered inverters
Fat Spaniel Technologies	PV2Web for SATCON Inverters
Fat Spaniel Technologies	PV2Web for SMA inverters
Fat Spaniel Technologies	PV2Web for Xantrex GT inverters
Fat Spaniel Technologies	PV2Web Fronius Direct
Fronius USA	Fronius Datalogger easy Box
Fronius USA	Fronius Datalogger easy Card
Fronius USA	Fronius Datalogger Interface Box
Fronius USA	Fronius Datalogger pro Box
Fronius USA	Fronius Datalogger pro Card
Fronius USA	Fronius Datalogger Web

Manufacturer Name	Model Number
Fronius USA	Fronius IG.access
Fronius USA	FRONIUS IG.online
Fronius USA	Fronius Interface Box
Fronius USA	Fronius Interface Card easy
Fronius USA	Fronius Personal Display
Fronius USA	Fronius Solar Access
Fronius USA	Fronius Solar Web
Fronius USA	LCD Fronius IG Plus Series
Fronius USA	LCD Fronius IG Series
GE Energy	B4001
GE Energy	B4002
GE Energy	GEPVd-01
GE Energy	I-210
GE Energy	I-210+
GE Energy	I-210+c
GE Energy	I70S
GE Energy	KV
GE Energy	KV2
GE Energy	KV2c
GE Energy	KV2c+
General Electric	I70S
General Electric	KV
General Electric	KV2
Global Power Products	ENER-COMM ECE-100
Global Power Products	ENER-COMM ECE-200
Global Power Products	ENER-COMM ECED-100
Global Power Products	ENER-COMM ECED-200
Home Energy Systems	100 A
Home Energy Systems	25 A
Home Energy Systems	50 A
ICP Solar Technologies	Green Meter 61000
Integrated Metering Systems	1101201
Integrated Metering Systems	1101201-T
Integrated Metering Systems	1101202
Integrated Metering Systems	1101202-T
Integrated Metering Systems	1102401
Integrated Metering Systems	1102401-T
Integrated Metering Systems	1102402
Integrated Metering Systems	1102402-T
Integrated Metering Systems	1102771
Integrated Metering Systems	1102771-T
Integrated Metering Systems	1102772
Integrated Metering Systems	1102772-T
Integrated Metering Systems	1103471
Integrated Metering Systems	1103471-T
Integrated Metering Systems	1103472
Integrated Metering Systems	1103472-T
Integrated Metering Systems	1201201

Manufacturer Name	Model Number
Integrated Metering Systems	1201201-T
Integrated Metering Systems	1201202
Integrated Metering Systems	1201202-T
Integrated Metering Systems	1202401
Integrated Metering Systems	1202401-T
Integrated Metering Systems	1202402
Integrated Metering Systems	1202402-T
Integrated Metering Systems	1202771
Integrated Metering Systems	1202771-T
Integrated Metering Systems	1202772
Integrated Metering Systems	1202772-T
Integrated Metering Systems	1203471
Integrated Metering Systems	1203471-T
Integrated Metering Systems	1203472
Integrated Metering Systems	1203472-T
Integrated Metering Systems	1301201
Integrated Metering Systems	1301201-T
Integrated Metering Systems	1301202
Integrated Metering Systems	1301202-T
Integrated Metering Systems	1302401
Integrated Metering Systems	1302401-T
Integrated Metering Systems	1302402
Integrated Metering Systems	1302402-T
Integrated Metering Systems	1302771
Integrated Metering Systems	1302771-T
Integrated Metering Systems	1302772
Integrated Metering Systems	1302772-T
Integrated Metering Systems	1303471
Integrated Metering Systems	1303471-T
Integrated Metering Systems	1303472
Integrated Metering Systems	1303472-T
Integrated Metering Systems	2111201
Integrated Metering Systems	2111201-T
Integrated Metering Systems	2111202
Integrated Metering Systems	2111202-T
Integrated Metering Systems	2112401
Integrated Metering Systems	2112401-T
Integrated Metering Systems	2112402
Integrated Metering Systems	2112402-T
Integrated Metering Systems	2112771
Integrated Metering Systems	2112771-T
Integrated Metering Systems	2112772
Integrated Metering Systems	2112772-T
Integrated Metering Systems	2113471
Integrated Metering Systems	2113471-T
Integrated Metering Systems	2113472
Integrated Metering Systems	2113472-T
Integrated Metering Systems	2221201

Manufacturer Name	Model Number
Integrated Metering Systems	2221201-T
Integrated Metering Systems	2221202
Integrated Metering Systems	2221202-T
Integrated Metering Systems	2222401
Integrated Metering Systems	2222401-T
Integrated Metering Systems	2222402
Integrated Metering Systems	2222402-T
Integrated Metering Systems	2222771
Integrated Metering Systems	2222771-T
Integrated Metering Systems	2222772
Integrated Metering Systems	2222772-T
Integrated Metering Systems	2223471
Integrated Metering Systems	2223471-T
Integrated Metering Systems	2223472
Integrated Metering Systems	2223472-T
Integrated Metering Systems	BL2081000-PKG-SO
Integrated Metering Systems	BL208100-PKG-SO
Integrated Metering Systems	BL2081200-PKG-SO
Integrated Metering Systems	BL208200-PKG-SO
Integrated Metering Systems	BL208400-PKG-SO
Integrated Metering Systems	BL208600-PKG-SO
Integrated Metering Systems	BL208800-PKG-SO
Integrated Metering Systems	BL21201000-PKG-SO
Integrated Metering Systems	BL2120100-PKG-SO
Integrated Metering Systems	BL21201200-PKG-SO
Integrated Metering Systems	BL2120200-PKG-SO
Integrated Metering Systems	BL2120400-PKG-SO
Integrated Metering Systems	BL2120600-PKG-SO
Integrated Metering Systems	BL2120800-PKG-SO
Integrated Metering Systems	BL22771000-PKG-SO
Integrated Metering Systems	BL2277100-PKG-SO
Integrated Metering Systems	BL22771200-PKG-SO
Integrated Metering Systems	BL2277200-PKG-SO
Integrated Metering Systems	BL2277400-PKG-SO
Integrated Metering Systems	BL2277600-PKG-SO
Integrated Metering Systems	BL2277800-PKG-SO
Integrated Metering Systems	BL2401000-GL-PKG-SO
Integrated Metering Systems	BL2401000-L-PKG-SO
Integrated Metering Systems	BL240100-GL-PKG-SO
Integrated Metering Systems	BL240100-L-PKG-SO
Integrated Metering Systems	BL2401200-GL-PKG-SO
Integrated Metering Systems	BL2401200-L-PKG-SO
Integrated Metering Systems	BL240200-GL-PKG-SO
Integrated Metering Systems	BL240200-L-PKG-SO
Integrated Metering Systems	BL240400-GL-PKG-SO
Integrated Metering Systems	BL240400-L-PKG-SO
Integrated Metering Systems	BL240600-GL-PKG-SO
Integrated Metering Systems	BL240600-L-PKG-SO

Manufacturer Name	Model Number
Integrated Metering Systems	BL240800-GL-PKG-SO
Integrated Metering Systems	BL240800-L-PKG-SO
Integrated Metering Systems	BL32081000-PKG-SO
Integrated Metering Systems	BL3208100-PKG-SO
Integrated Metering Systems	BL32081200-PKG-SO
Integrated Metering Systems	BL3208200-PKG-SO
Integrated Metering Systems	BL3208400-PKG-SO
Integrated Metering Systems	BL3208600-PKG-SO
Integrated Metering Systems	BL3208800-PKG-SO
Integrated Metering Systems	BL4801000-L-PKG-SO
Integrated Metering Systems	BL4801000-PKG-SO
Integrated Metering Systems	BL480100-L-PKG-SO
Integrated Metering Systems	BL480100-PKG-SO
Integrated Metering Systems	BL4801200-L-PKG-SO
Integrated Metering Systems	BL4801200-PKG-SO
Integrated Metering Systems	BL480200-L-PKG-SO
Integrated Metering Systems	BL480200-PKG-SO
Integrated Metering Systems	BL480400-L-PKG-SO
Integrated Metering Systems	BL480400-PKG-SO
Integrated Metering Systems	BL480600-L-PKG-SO
Integrated Metering Systems	BL480600-PKG-SO
Integrated Metering Systems	BL480800-L-PKG-SO
Integrated Metering Systems	BL480800-PKG-SO
Integrated Metering Systems	MMD1202001
Integrated Metering Systems	MMD1202001-SCC
Integrated Metering Systems	MMD1202001-T
Integrated Metering Systems	MMD1202001-TSCC
Integrated Metering Systems	MMS1202001
Integrated Metering Systems	MMS1202001-SCC
Integrated Metering Systems	MMS1202001-T
Integrated Metering Systems	MMS1202001-TSCC
ISAC	PCMNet
iSYS Systems	PVM-Net
Itron	Centron C1S
Itron	J4S
Itron	J5S
Itron	SENTINAL
KACO	KACO Display
KACO	KACO Pro Log L
KACO	KACO Pro Log M
KACO	KACO Pro Log XL
KACO	VISO
Landis+Gyr	AL Altimus 2S
Landis+Gyr	AX Focus
Landis+Gyr	Focus
Landis+Gyr	MAXsys Elite
Landis+Gyr	S4
Landis+Gyr	S4e

Manufacturer Name	Model Number
Locus Energy	Lgate 100
Locus Energy	Lgate 101E
Locus Energy	LGate 50
Measurlogic	DTS SKT
Measurlogic	DTS SKTD
Microtrend Technologies	SEA-1
natcon7	PMRS
OutBack Power Systems	Mate
OutBack Power Systems	MX60
Pacific Solar	Sunlogger
Poobah Industries	SB-001
Power Measurement	ION 6200
Power Measurement	ION 7330
Power Measurement	ION 7350
Power Measurement	ION 7550
Power Measurement	ION 7650
Power Measurement	ION 8600
PV Powered	PVM1010
REC Solar	REC Solar Wireless Display
Righthand Engineering	WinVerter-Monitor
Righthand Engineering	WinVerter-Monitor FX-MX
SATEC	PM130EH-PLUS
SATEC	PM172E-N
Schlumberger/Sangamo	Centron C1S
Schlumberger/Sangamo	J4S
Schlumberger/Sangamo	J5S
Schneider Electric	E5600
Schneider Electric	Energy Meter
Schneider Electric	HDM 1-Meter and 4-Meter
Schneider Electric	HDM 8-Meter and 16-Meter
Schneider Electric	ION 6200
Schneider Electric	ION 7330
Schneider Electric	ION 7350
Schneider Electric	ION 7550
Schneider Electric	ION 7650
Schneider Electric	ION 8600
Schneider Electric	PM 700 Power Meter
Schneider Electric	PM 800 Power Meter
Schneider Electric	Series 3000 Circuit Monitor
Schneider Electric	Series 4000 Circuit Monitor
Schuco USA L.P.	Sunny Beam
Schuco USA L.P.	Sunny WebBox
SMA America	Sunny Beam
SMA America	Sunny Boy Control
SMA America	Sunny Boy Control Light
SMA America	Sunny Boy Control Plus
SMA America	Sunny Boy Control Plus-485
SMA America	Sunny Boy Control-485

Manufacturer Name	Model Number
SMA America	Sunny Data
SMA America	Sunny Data Control
SMA America	Sunny WebBox
SMA America	SWR LCD
SmartSynch	Itron CENTRON GPRS SmartMeter
SOCOMEK	DIRIS A20
SOCOMEK	DIRIS A40
Solar Integrated Technologies	REM-ESA-ASSURE
Solar Integrated Technologies	REM-PBI-ASSURE
Solar Integrated Technologies	REM-UTILITY-ASSURE
SolarMagic/National Semiconductor	RETrack 1
SolarMagic/National Semiconductor	RETrack 2
SolarMagic/National Semiconductor	RETrack 3
SolarQuest	rMeter
Solectria Renewables	LCD PVI 13/15kW
Solectria Renewables	LCD PVI 1800-2500
Solectria Renewables	LCD PVI 3000-5300
Solectria Renewables	LCD PVI 60/82/95kW
Solectria Renewables	SolrenView 1PH REV
Solectria Renewables	SolrenView 1PH REV-panel
Solectria Renewables	SolrenView 3PH 200A REV
Solectria Renewables	SolrenView 3PH 400A REV
Solectria Renewables	SolrenView 3PH 800A REV
Solectria Renewables	SolrenView Inverter Direct
Southwest Windpower	Skystream 3.7
SunPower	SMS SPRf Series
SunPower	SMS SPRm Series
SunPower	SMS SPRx Series
Thompson Technology Industries	SunPac
Tigo Energy	MM-EP and KACO Inverters
Tigo Energy	MM-EP and SMA inverters
Tigo Energy	MM-ES and KACO Inverters
Tigo Energy	MM-ES and SMA inverters
TransData	MARK-V EMS60
Veris Industries	E50
Veris Industries	H8030-0100-2
Veris Industries	H8030-0300-2
Veris Industries	H8031-0100-2
Veris Industries	H8031-0300-2
Veris Industries	H8035-0800-4
Veris Industries	H8035-100-2
Veris Industries	H8035-1600-4
Veris Industries	H8035-2400-4
Veris Industries	H8035-300-2
Veris Industries	H8035-400-3

Manufacturer Name	Model Number
Veris Industries	H8036-0800-4
Veris Industries	H8036-100-2
Veris Industries	H8036-1600-4
Veris Industries	H8036-2400-4
Veris Industries	H8036-300-2
Veris Industries	H8036-400-3
Veris Industries	H8043-0100-2
Veris Industries	H8043-0100-2(100A)
Veris Industries	H8043-0300-2
Veris Industries	H8043-0300-2(300A)
Veris Industries	H8043-0800-3
Veris Industries	H8043-0800-4
Veris Industries	H8043-400-3
Veris Industries	H8044-0100-2(100A)
Veris Industries	H8044-0300-2(300A)
Veris Industries	H8051-100-2
Veris Industries	H8051-300-2
Veris Industries	H8163-0100-0-1
Veris Industries	H8163-0100-0-2
Veris Industries	H8163-0100-0-3
Veris Industries	H8163-01600-4-3
Veris Industries	H8163-0200-1-1
Veris Industries	H8163-0200-1-2
Veris Industries	H8163-0200-1-3
Veris Industries	H8163-0300-2-1
Veris Industries	H8163-0300-2-2
Veris Industries	H8163-0300-2-3
Veris Industries	H8163-0400-3-2
Veris Industries	H8163-0400-3-3
Veris Industries	H8163-0800-3-2
Veris Industries	H8163-0800-3-3
Veris Industries	H8163-0800-4-3
Veris Industries	H8163-2400-4-3
Xantrex	STRM - Remote Meter
Xantrex Technologies	XW MPPT60
Xantrex Technologies	XW SCP

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