



EGM Equipment Loan Agreement

DATE		1. CONTROL NO.		2. LOAN DATE		3. Loan Term 90 days		4. PAGE 1 OF 2	
5. LENDER NAME-ADDRESS/TEL/FAX/CONTACT/TEL/FAX/EMAIL (LENDER)					6. BORROWER NAME-ADDRESS/TEL/FAX/CONTACT/TEL/FAX/EMAIL (BORROWER)				
Electrical Grid Monitoring, Inc. (EGM) 9301 Oakdale Ave. Chatsworth, CA 91311 Tel: (833) 664-2835		CONTACT: Title: Tel: Email:				CONTACT: Title: Cell: () – Office: () – Email:			
7. PURPOSE OF LOAN AND LOCATION WHERE PROPERTY WILL BE USED The items listed in Section 9 below are being loaned by LENDER to BORROWER at no cost to BORROWER for the loan term for the purpose of testing. The sensors will be used by the BORROWER in a manner that is consistent with the intended use of the sensors and not to exceed the specifications of the sensors per the attached data sheet. As part of this loan, LENDER will also provide a paid SIM card and data plan for each gateway for the loan term. LENDER will also provide BORROWER with a cloud instance of the software to evaluate the entire system. In addition, LENDER will provide installation and technical support services for the loan term. The purpose of the loan will be to evaluate the EGM system for load profile and fault location and detection capabilities.									
8. REFERENCE/CONTRACTUAL DOCUMENTATION/SHIPPING INFORMATION A data sheet has been attached to this form indicating the specifications of the sensors for testing purposes. The sensors will be configured and tested at LENDER'S factory and shipped to BORROWER for installation on their networks within two weeks from signature of this agreement.									
9. LOANED ITEMS									
ITEM	QTY	PROPERTY NO.	SERIAL NO(s).	PERSONAL PROPERTY DESCRIPTION	ACQUISITION COST				
1	12	MSU-1	TBD	EGM Intelligent Grid Monitoring Sensors (see attached data sheet)	Included				
2	4	CAU	TBD	EGM Communications Adapter Unit (CAU)	Included				
3	4	SIM CARD(s)	TBD	Activated SIM card for loan term	Included				
4	4	Data Plan(s)	TBD	Data plans for loan term	Included				
5	1	Meta Alert		Software instance provided for loan term	Included				
6	Lot	Services		Support services during the loan term	Included				
TOTAL					\$49,980				
(If additional space is necessary, attach a separate sheet)									



TERMS AND CONDITIONS

1. The BORROWER shall:
 - a. return the loaned items (items 1-3 in Section 9. LOANED ITEMS) in like condition as received from LENDER, normal wear and tear accepted, within four weeks following the end of the loan term, or purchase the system and remit the acquisition cost payment within 30 days from the end of the loan term;
 - b. in case of loss or damage of the property loaned as outlined in Section 9. LOANED ITEMS, reimburse the LENDER for any damaged equipment;
 - c. assume all costs involved in preparation, handling, installation, disconnecting, and shipping back to the LENDER;
 - d. agree to indemnify and hold harmless the LENDER against any and all liability, loss, damages, claims and costs incidental hereto as a result of BORROWER's installation, use, or possession of the loaned property; and
 - e. use the loaned property (items 1-3) only for the purposes specified in this loan agreement.
2. The above property shall not be modified, loaned, or transferred to a third party without the written permission of the LENDER.
3. The BORROWER shall account for, or permit inspection of, the loaned property by the LENDER after proper notification.

Accepted By: _____
Signature of Authorized BORROWER Title Date

Approved By: _____
Signature of Authorized LENDER Title Date

MSU - 1
Technical Specifications

LINE RATINGS		PHYSICAL MEASUREMENTS	
Operating Voltage	4kV - 240kV (ph-to-ph)	Conductor Angle	+/- 0.1 deg
Operating Current	0 - 550A	Conductor Clearance	+/- 1% ft
Conductor Sizes Supported	1/0 - 1590 AAC (0.398" - 1.454" dia.)	Conductor Sag	+/- 1% ft
Max Conductor Temperature	250° F (120C)	Conductor Swing	+/- 0.1 Hz
ELECTRICAL MEASUREMENTS		Conductor Temperature	+/- 1% C
		Conductor Tension	+/- 2% N
		Conductor Vibration	+/- 1% Hz
		ENVIRONMENTAL MEASUREMENTS	
		Ambient Temperature	+/- 1%
		Humidity	+/- 3%
		Wind Speed (Calculated)	+/- 7.5% m/sec
		SENSOR CHARACTERISTICS	
		Dimensions	Cylindrical: 13" L, 6" Dia + 7.5 antenna
		Weight	8 lbs
Voltage	+/- 3% V	Operating Temperature	-40° F to + 150° F (- 40C to + 65C)
Operating Current (14A - 550A)	+/- 0.5% A	Mounting Method	Manual or Hotstick
Fault Current (0kA - 30kA)	+/- 0.5% A	Material	Aluminum + UV Stable Polycarbonate
Fault Current Tolerance	30kV	Expected Lifespan	15 yrs
Electro-Magnetic Field (EMF)	+/- 0.5% V/m	APPLICATIONS	
Energy	+/- 3% kWh	Fault Location (+/- 150 ft)	On-Demand Read
Power	+/- 5% (W, VA, VAR)	Fault Detection	Phase Identification
Phase Angle	+/- 1% deg	Current Leakage Detection	Threshold Alarms
Power Factor	+/- 3%	Current Detection	Full Harmonic Report
Frequency (45Hz-65Hz)	+/- 0.5% Hz	Dynamic Line Rating	High-Impedance Fault Detection
Current Harmonics	Up to 46th @ +/- 1.5%	Load Monitoring	Broken Wire Detection
Voltage Harmonics	Up to 46th @ +/- 1.5%	Ice Accretion Detection	DER Impact Analysis
COMMUNICATIONS		Line Gallop Detection	Conductor Clearance
Radio Frequency	915MHz or 2.4GHz	Conductor Health Report	Pre-Failure Detection
Security	ISO 27001 (SOC 2 Type 2 Compliance)	Voltage Issues	ADMS/DMS/OMS Integration
Wireless Range, 900MHz	2.5 miles		
Wireless Range, 2.4GHz	800 feet		
Sensor Configuration	Remote, Over-The-Air Programming		
POWER SUPPLY			
Primary Power	Induction		
Minimum Line Current	12A		
Supplemental Power	Super Capacitors (no batteries)		



Electrical Grid Monitoring
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