

OCALA ELECTRIC UTILITY
OCALA, FLORIDA

FIRST REVISED SHEET NO. 19.0
CANCELS ORIGINAL SHEET NO. 19.0

**APPLICATION FOR INTERCONNECTION OF
CUSTOMER-OWNED RENEWABLE
GENERATION SYSTEMS**

TIER 1 - Ten (10) kW or Less

TIER 2 - Greater than 10 kW and Less Than or Equal to 100 kW

TIER 3 - Greater than 100 kW and Less Than or Equal to Two (2) MW

Note: These customer-owned renewable generation system size limits may be subject to a cumulative enrollment limit on net-metering customers located in the area served by the City of Ocala Electric Utility. Please refer to the Ocala Electric Utility Net-Metering Rate Schedule.

Ocala Electric Utility customers who install customer-owned renewable generation systems (RGS) and desire to interconnect those facilities with the Ocala Electric Utility system are required to complete this application. When the completed application and fees are returned to Ocala Electric Utility, the process of completing the appropriate Tier 1, Tier 2 or Tier 3 Interconnection Agreement can begin. This application and copies of the Interconnection Agreements may be obtained at Ocala Electric Utility, located at 201 SE 3rd Street, Ocala, Florida 34471, or may be requested by email from OEU@ocalafl.org.

1. Customer Information

Name: Caroline Torres
Mailing Address: 4311 SE 18th Ave
City: Ocala State: FL Zip Code: 344180
Phone Number: 407-375-4261 Alternate Phone Number: _____
Email Address: Caroline.Feketa@gmail.com Fax Number: _____
Ocala Electric Utility Customer Account Number: 33049-242649

2. RGS Facility Information

Facility Location: Ground mounted
Ocala Electric Utility Customer Account Number: 33049-242649
RGS Manufacturer: Silfab 2 Enterprise
Manufacturer's Address: N/A
Reference or Model Number: SIL-370 HC Enterprise IQ8PLUS
Serial Number: SIL-370 HC 2 IQ8PLUS

(Continued on Sheet No.19.1)

Issued by: Michael Poucher, P.E.
Electric Utility Director

Effective: October 1, 2019

OCALA ELECTRIC UTILITY
OCALA, FLORIDA
(Continue from Sheet No. 19.0)

FIRST REVISED SHEET NO. 19.1
CANCELS ORIGINAL SHEET NO. 19.1

3. Facility Rating Information

Gross Power Rating: 4.67 kW ("Gross power rating" means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with Ocala Electric Utility's distribution facilities. For inverter-based systems, the AC nameplate generating capacity shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.)

Fuel or Energy Source: Solar

Anticipated In- Service Date: 5/3/2023

4. Application Fee

The application fee is based on the Gross Power Rating and must be submitted with this application. The non-refundable application fee is \$375 for Tier 2 and \$750 for Tier 3 installations. There is no application fee for Tier 1 installations.

5. Interconnection Study Fee

For Tier 3 installations, a deposit in the amount of the estimated costs of the study (to be determined at time of application) must be paid along with this application in addition to the application fee referenced in Article 4 above. This deposit will be applied toward the cost of an interconnection study. The customer will be responsible for the actual costs of the study. Should the actual cost of the study be less than the deposit, the difference will be refunded to the customer. Customer agrees to comply with all interconnection requirements identified in the interconnection study report.

6. Required Documentation

Prior to completion of the Interconnection Agreement, the following information must be provided to the Ocala Electric Utility by the customer.

A. Documentation demonstrating that the installation complies with (or most current version at time of inspection approval):

1. IEEE 1547 (2018) Standard for Interconnecting Distributed Resources with Electric Power Systems.
2. IEEE 1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems.
3. UL 1741 (2010) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources.

(Continued on Sheet No. 19.2)

Issued by: Michael Poucher, P.E.
Electric Utility Director

Effective: October 1, 2019

OCALA ELECTRIC UTILITY
OCALA, FLORIDA
(Continued from Sheet No. 19.1)

FIRST REVISED SHEET NO. 19.2
CANCELS ORIGINAL SHEET NO. 19.2

B. Documentation that the customer-owned renewable generation has been inspected and approved by local code officials prior to its operation in parallel with the Ocala Electric Utility system to ensure compliance with applicable local codes. OEU will also require proof of commission testing by a qualified 3rd party testing company (not affiliated in any way with the manufacturer, vendor or installation contractor), for compliance with all required and applicable codes, standards, and interconnection study requirements, prior to setting of OEU metering equipment.

C. Proof of insurance in the amount of:
Tier 1 - \$100,000.00
Tier 2 - \$1,000,000.00
Tier 3 - \$2,000,000.00

Customer

By: Caroline Torres Date: 5/3/23
(Print Name) ✓

Caroline Torres
(Signature)

Issued by: Michael Poucher, P.E.
Electric Utility Director

Effective: October 1, 2019


Kin Interinsurance Network

P.O. Box 95241
Chicago, IL 60694-5241

Producer Name
Kin Insurance Network
Distributor, LLC

Policy Number
KIN-HO-FL-172570692

Policy Period
05/01/2023 to 05/01/2024

REPORT A CLAIM

Email	claims@kin.com
Website	kin.com/claims
Phone Number	(866) 204-2219

PROPERTY COVERAGES

Section I Coverages	Limit Of Liability
A. Dwelling	\$305,000
B. Other Structure	\$3,050
C. Personal Property	\$76,250
D. Loss of Use	\$30,500

LIABILITY COVERAGES

Section II Coverages	Limit Of Liability
E. Personal Liability	\$100,000
F. Medical Payments	\$1,000

DEDUCTIBLES

All Other Perils	\$2,500
Calendar Year Hurricane Deductible	\$6,100 (2% of Coverage A)

This policy contains a separate deductible for hurricane losses, and a separate deductible for all other perils, insured against. The deductibles shown in your policy declaration page(s) are the deductibles that will apply as described in your policy, in the event of a covered loss. Other deductibles may be available. Please contact your insurance agent for additional information.



Inverter Type: (15)Enphase IQ8PLUS-72-2-US
PV Panel: (15) Silfab SIL-370 HC
Racking: IronRidge
Total Wattage: 5,550W DC
Mount Type: Ground Mount
Wind Load: 21 to 27 Deg
Fastener Type: Use Ground Screws

Sheet Index

- S-1 Cover Sheet / Site Plan
- S-2 Detail
- E-1 One - Line
- E-2 Electrical Code
- S-1A Mounting Plan
- A-1 Aerial Dimensions

General Notes:
-Enphase IQ8PLUS-72-2-US Micro Inverters are located on ground mount behind each module.
-Wire run from array to connection is 112 feet



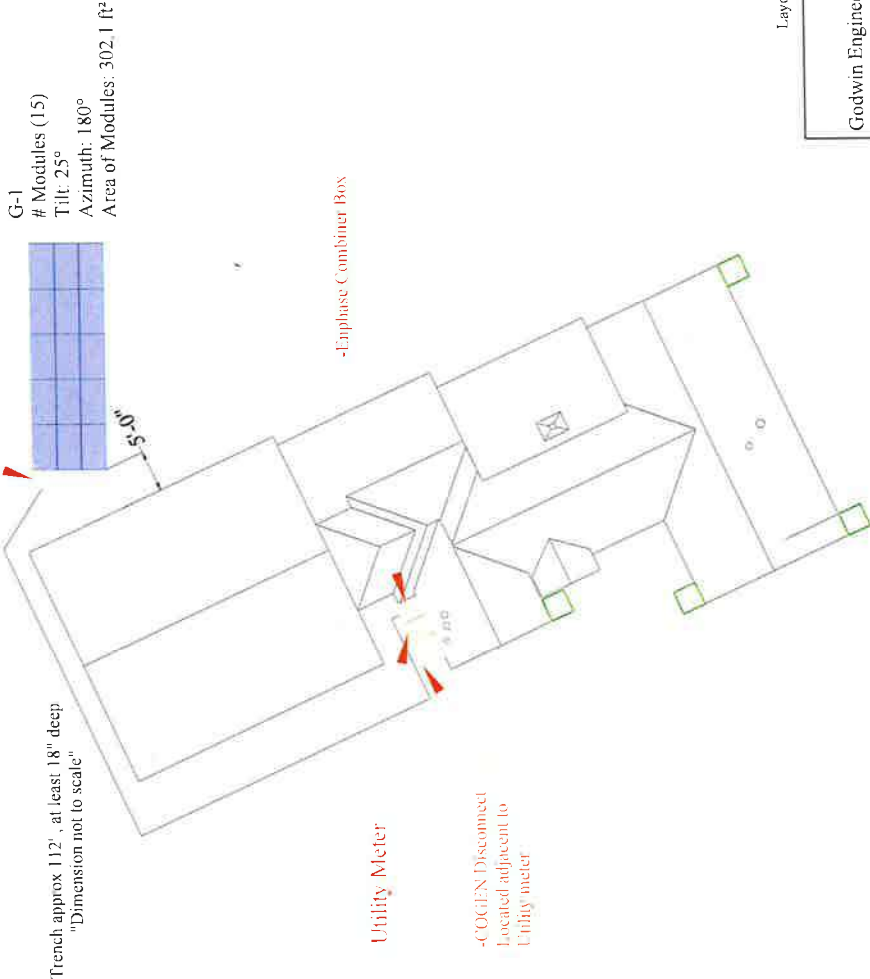
5010 N Cortez Ave.
Tampa, FL 33614
813-445-4818

Legend

- Ground Access
- Utility Meter
- PV Disconnect
- First responder access
- Chimney
- Satellite
- Vent Pipe

Meets the requirements of the following- (2020 FL Residential Code & FBC, 7th Edition (2020 International Residential Code) - 2nd Printing modified by the FL Building Standards, 2020 Florida Building Energy Conservation Code 7th edition, County of Marion Code, 2017 National Electric Code.)

FRONT OF HOUSE



Layout Subject to Change Based on Site Conditions

Godwin Engineering and Design, LLC
8378 Foxtail Loop
Pensacola, FL 32526
D. Chad Godwin, PE
Chad@godwineng.com

Digitally signed by Donnie Godwin
Date: 2023.02.24 08:37:10 -06'00'



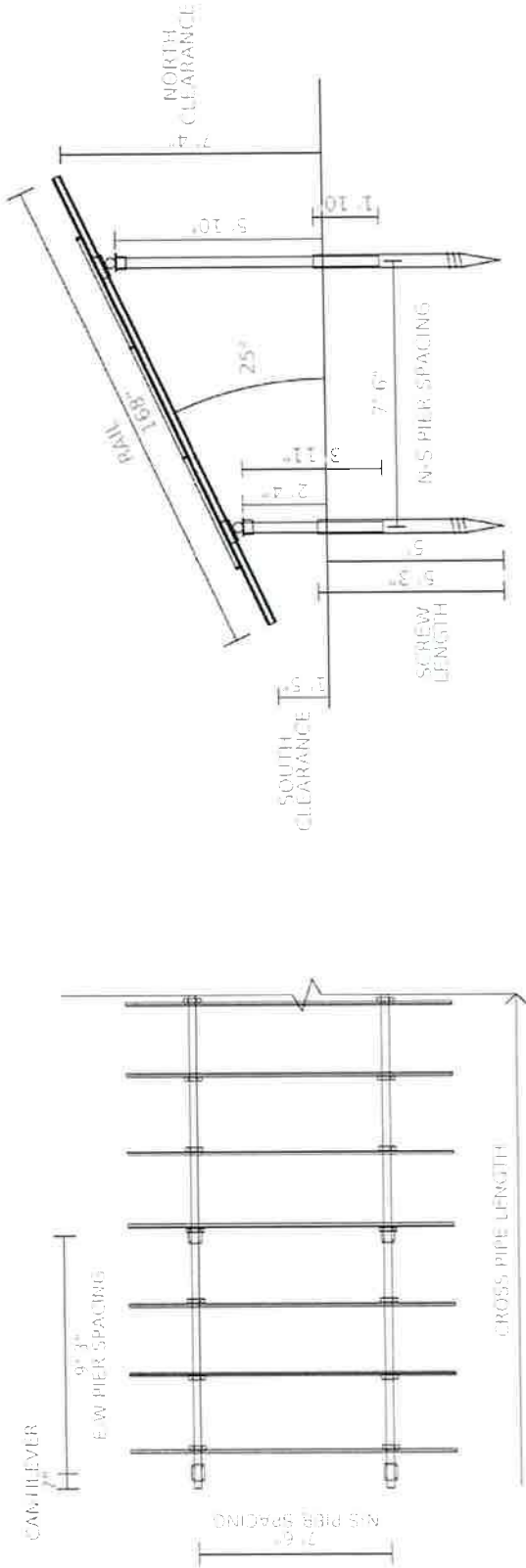
Compass for Aerial

System meets the requirements of NFPA 700h Edition, Chapter 1.1.12 (2018 Edition) Install will be done to Manufacturer Spec

Customer Info:

JOSEPH FEKETA
4311 SE 18TH AVE
OCALA, FL 34480

- Ground mount kept
- at least 25 feet from street
- at least 10 feet from utility easement
- at least 8 feet from rear and side property line



General Notes:
-Racking is Secured to 8 - 5'-0" Deep Ground Screws
@ 9'-3" O.C. E-W using 3.5" O.D. Pipe
& @ 7'-6" O.C. N-S using 3.5" O.D. Pipe.

Config	Repeats	Total Piers	North Piers	South Piers	Cross Pipes	Total Pipe Length
3x5	1	8	4(7'-5")	4(3'-11")	2(29'-0")	103'-7"
Actual Quantities		5(24')		120'		

Design Wind Speed(Vult) - 140mph 3 sec gust, Exposure Category - B -Designed as per ASCE7-16			Customer Info: JOSEPH FEKETA 4311 SE 18TH AVE OCALA, FL 34480		
Inverter Type: (15)Enphase IQ8PLUS-72-2-US PV Panel: (15) Silfab SIL-370 HC Racking: IronRidge Total Wattage: 5,550W DC Mount Type: Ground Mount Wind Load: 21 to 27 Deg Fastener Type: Use Ground Screws					

Install will be done to Manufacturer Spec

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Chad@godwineng.com

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Date:	10/20/2022
Drawn by:	JD
Revised by:	KT
Rev #:	01
Rev Date:	01/30/2023
Page:	11"X17" S-2

Voltage Drop Calculations

$2(12.9 \text{ ohm-cm/ft}) * 112\text{ft} * 9.68\text{A} = 2.69\text{V}$
10380cm

$2.69\text{V} = 1.1\%$
240V

#10

410 AWG THWN for Home runs
(1) Line 1
(1) Line 2
(1) Line 3
Per Circuit
(1) EPC
Inside @ least 3/4" Conduit (Rd on site)

Trench approx. 112", at least 18" deep
"Dimension not to scale"

Enphase Output Ckt Per String

To Overcurrent Protection Device	
AC Max Output Current	9.68
AC Max Output Current * 1.25%	12.1
Overcurrent Protection (A)	20
No. of Current Carrying Cond	<4
Conductor Gauge (AWG)	10

Enphase Total Output Ckt

AC Max Output Current	18.15
AC Max Output Current * 125%	22.7
Overcurrent Protection (A)	30
No. of Current Carrying Cond	<4
Conductor Gauge (AWG)	10

Including the label below

In Case of Emergency Call
And Services
at 813-445-4818
Ed Berry EC13001480

Meets 11.12.2.1.5

Note:

-All wiring to meet the 2017 NEC and Florida electric codes.
60A Disconnect
-Type of conduit to be determined on site by contractor.

Install will be done to Manufacturer Spec

Ground Mount

Photovoltaics:
(15) Silfab SIL-370 HC
Inverters:
(15) Enphase IQ8PLUS-72-2-US Micro Inverters
Circuits:
(1) circuit of (8) Modules
(1) circuit of (7) Modules
Maximum Inverters Per 20A Circuit (13)

Enphase IQ Trunk Cable
Q-12-240
#12AWG THHN-THWN-2
UL 9703

Grounding Conductor to be protected
#8 Awg or to be unprotected #6 Awg
250.64(B) 250.66 & 250.120(C)

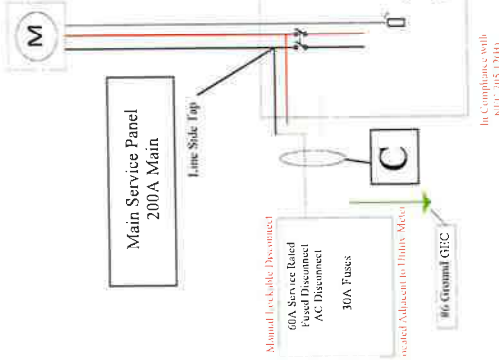
NEMA 3R
Junction Box
Black - L1
Red - L2
Green - Ground

Located on Ground Mount

WARNING
ELECTRIC SHOCK AND FIRE
Hazard
DO NOT TOUCH TERMINALS
OR WIRING IN THIS BOX
UNLESS YOU ARE A QUALIFIED
ELECTRICIAN

PHOTOVOLTAIC SYSTEM
AC DISCONNECT
18 15A
250VAC
RATED AC OUTPUT CURRENT
NOMINAL OPERATING VOLTAGE

Enphase Combiner Box
(1) - 20A Breaker
Per Circuit
2 Circuits
340V
1015A Breaker for Array
Disconnect
Solar Combiner Box
#X-30-AMT-240
Located on Main House



Ground Rods
Existing Cold Water Grade
Intersystem Bonding per NEC 250.94

Conduit (in)	1.12 N (Awg)	Ground (Awg)	OCPD
After Combiner	B	10	30
To Line Side Tap	C	6	N/A

GFC NOTES

- Grounded system per 400-411(A)(4)
- GFC must be installed per 250.64
- GFC must be continuous and applied to lines, cables, spliced from array to existing service, ground system or continuous from the array to the existing service, ground system
- GFC must be marked "X" as installed in conduit
- GFC is not in conduit of used by 30 min
- Disconnects will be Visible, lockable, adjacent to and within 10' of utility meter
- All Labels & Markings for photovoltaic system will be reflective and meet all requirements for NFPA 711-12

Customer Info:

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4311 SE 18TH AVE
OCALA, FL
34480

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Date: 2023.02.24 08:37:47
-06'00'



5010 N Cortez Ave
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Date: 10/20/2022
Drawn by: JD
Revised by: KT
Rev #: 01
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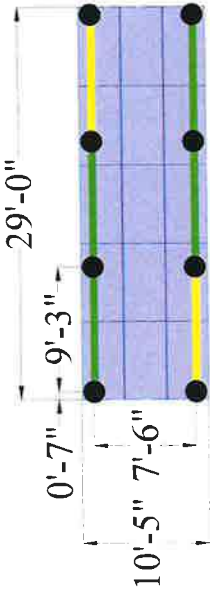
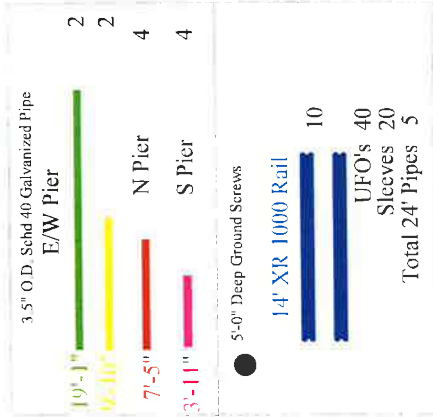
Inverter Type:
Enphase IQ8PLUS-72-2-US
PV panel:
(15)
Silfab SIL-370 HC
Total Wauage
5.550W DC

NEC LABEL NOTES
1. THE WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH NEC 10.21(B)
2. THE LABEL(S) SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT WHERE THEY ARE REQUIRED
3. LABELS TO BE 4 IN. LETTER HEIGHT OF 3/8" AND PERMANENTLY AFFIXED
4. LABEL(S) SHALL ALSO COMPLY WITH THE SPECIFIC REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION

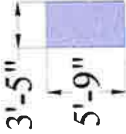
Labels to NEC 112.8 for
Conditions on taps or conductors
and overcurrent devices
Enclosures
Labels to NEC 112.8 for
Labels to NEC 112.8 for
Labels to NEC 112.8 for
Labels to NEC 112.8 for

Ground Mount

Refer to IR BOM Report



G-1
Modules (15)
Tilt: 25°
Azimuth: 180°



- 15 Silfab SIL-370 HC
- 15 Enphase IQ8PLUS-72-2-US
- 2 20A 2P Breaker
- 1 60A Fused Disconnect
- 1 Enphase Combiner Box
- 2 30A Fuses w/ Reducers
- 1 6x6 J-Box
- 1 Ground Lug

Plans satisfy zones FBC-1510.7.1
Install will be done to Manufacturer Spec

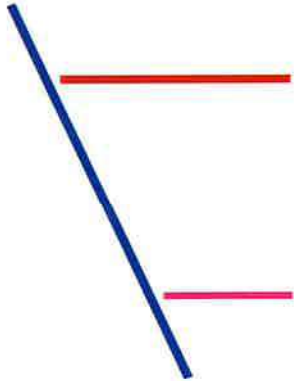
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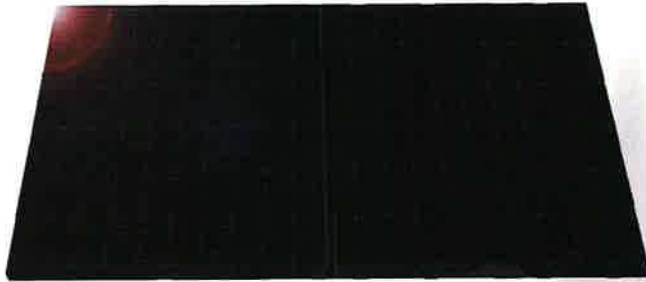
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Date:	10/20/2022
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Wind Load:	21 to 27 Deg
Fastener Type:	Use Ground Screws



SILFAB PRIME

316 x 1204 mm



RELIABLE ENERGY.
DIRECT FROM THE SOURCE.
Introducing **Silfab Prime**.

Designed to outperform.
Dependable, durable, high-performance solar panels
engineered for North American homeowners.

SILFAB SOLAR.COM



ELECTRICAL SPECIFICATIONS					
Test Conditions					
Wp	STC	370	NOCT		
Module Power (Pmax)		370	276		
Maximum power voltage (Vmp)		34.95	32.48		
Maximum power current (Imp)		10.60	8.50		
Open circuit voltage (Voc)		41.75	39.16		
Short circuit current (Isc)		11.75	9.07		
Module efficiency		20.3%	18.3%		
Maximum system voltage (VOC)		1000			
Series fuse rating		20			
Power tolerance		0 to +10			
Notes: Standard test conditions: STC: 1000 W/m², AM1.5, Temperature: 25 °C, NOCT: 4000 W/m², AM1.5, Measurement uncertainty: ± 3% Silfab Solar reserves the right to change specifications without notice. Electrical characteristics may vary by 10% and power by up to 10% See Silfab Solar website for more information					
MECHANICAL PROPERTIES / COMPONENTS					
METRIC		IMPERIAL			
Module weight					
Dimensions (H x L x D)		69.4 in x 40.6 in x 1.7 in			
Maximum surface load (wind/snow)*		112.8 lbf/ft² (net load) / 112.8 lbf/ft² (front load)			
Wind impact resistance		0.1 in at 51.5 mph			
Cells					
120 Half cells - Mono PERC		120 Half cells - Mono PERC			
9 busbar - 83 x 166 mm		9 busbar - 3.26 x 6.53 in			
Glass		3.2 mm high transmittance, tempered, 5% anti-reflective coating			
Backsheet		0.5 mm high transmittance, tempered, 5% anti-reflective coating			
Frame		Anodized aluminum			
Bypass diodes		3 diodes - 350V/45°C			
Junction box		U-1128 Certified, IEC 62759 certified, IP68 rated			
TEMPERATURE RATINGS					
WARRANTIES					
Temperature coefficient P _{max}		Module product workmanship warranty			
Temperature coefficient Voc		Linear power performance guarantee			
Temperature coefficient Imax		25 years**			
NOCT (± 2 °C)		30 years			
Operating temperature		-40/+85 °C			
Temperature coefficient P _{max}		≥ 97.1% end 1st yr			
Temperature coefficient Voc		≥ 97.1% end 1st yr			
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Temperature coefficient Voc		≥ 97.1% end 1st yr			
Temperature coefficient Imax		≥ 97.1% end 1st yr			
NOCT (± 2 °C)		≥ 97.1% end 1st yr			
Operating temperature		≥ 97.1% end 1st yr			
Temperature coefficient P _{max}		≥ 97.1% end 1st yr			
Temperature coefficient Voc		≥ 97.1% end 1st yr			
Temperature coefficient Imax		≥ 97.1% end 1st yr			
NOCT (± 2 °C)		≥ 97.1% end 1st yr			
Operating temperature		≥ 97.1% end 1st yr			
Temperature coefficient P _{max}		≥ 97.1% end 1st yr			
Temperature coefficient Voc		≥ 97.1% end 1st yr			
Temperature coefficient Imax		≥ 97.1% end 1st yr			
NOCT (± 2 °C)		≥ 97.1% end 1st yr			
Operating temperature		≥ 97.1% end 1st yr			
Temperature coefficient P _{max}		≥ 97.1% end 1st yr			
Temperature coefficient Voc		≥ 97.1% end 1st yr			
Temperature coefficient Imax		≥ 97.1% end 1st yr			
NOCT (± 2 °C)		≥ 97.1% end 1st yr			
Operating temperature		≥ 97.1% end 1st yr			
Temperature coefficient P _{max}		≥ 97.1% end 1st yr			
Temperature coefficient Voc		≥ 97.1% end 1st yr			
Temperature coefficient Imax		≥ 97.1% end 1st yr			
NOCT (± 2 °C)		≥ 97.1% end 1st yr			
Operating temperature		≥ 97.1% end 1st yr			
Temperature coefficient P _{max}		≥ 97.1% end 1st yr			
Temperature coefficient Voc		≥ 97.1% end 1st yr			
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NOCT (± 2 °C)		≥ 97.1% end 1st yr			
Operating temperature		≥ 97.1% end 1st yr			
Temperature coefficient P _{max}		≥ 97.1% end 1st yr			
Temperature coefficient Voc		≥ 97.1% end 1st yr			
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NOCT (± 2 °C)		≥ 97.1% end 1st yr			
Operating temperature		≥ 97.1% end 1st yr			



IQ8 and IQ8+ Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC) which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the Enphase IQ Battery, Enphase IQ Gateway, and the Enphase App monitoring and analysis software.

Enphase 25
year warranty

IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, ensuring an industry-leading limited warranty of up to 25 years.



IQ8 Series Microinverters are UL Listed as PV Rapid Shutdown Equipment and conform with various regulations when installed according to manufacturer's instructions.



Connect PV modules quickly and easily to IQ8 Series Microinverters using the included C-DCC-2 adapter cable with plug-in play MC4 connectors.

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IQ8SF-DS-0002-01-EN-US-2021-10-19

DATA SHEET

IQ8 and IQ8+ Microinverters

INPUT DATA (DC)		IQ8 (UL 1741-SA)		IQ8+ (UL 1741-SA)	
Commonly used module pairings ¹	W	235 – 350	235 – 440	160 (UL 1741-SA)	235 – 440
Module compatibility		60 cell / 120 half-cell		60 cell / 120 half-cell and 72-cell / 144 half-cell	
MPPT voltage range	V	27 – 37		29 – 45	
Operating range	V	25 – 48		25 – 58	
Min/max start voltage	V	30 / 48		30 / 58	
Max input DC voltage	V	50		60	
Max DC current ² (module I _{sc})	A				
Overvoltage class DC port					
DC port backfeed current	mA				
PV array configuration					
1x Ungrounded array. No additional DC side protection required. AC side protection requires max 20A per branch circuit.					
OUTPUT DATA (AC)		IQ8 (UL 1741-SA)		IQ8+ (UL 1741-SA)	
Peak output power	W	245		300	
Max continuous output power	W	240		280	
Nominal (L-L) voltage/range ²	V			240 / 211 – 264	
Max continuous output current	A	10		L20	
Nominal frequency	Hz			60	
Extended frequency range	Hz			50 – 68	
Max units per 20 A (L-L) branch circuit ⁴		16		13	
Total harmonic distortion					
Overvoltage class AC port					
AC port backfeed current	mA				
Power factor setting					
Grid-tied power factor (adjustable)				0.85 leading – 0.85 lagging	
Peak efficiency	%	97.5		97.6	
CEC weighted efficiency	%	97		97	
Night-time power consumption	mW			60	

Peak output power	245	300
Max continuous output power	240	290
Nominal (L-L) voltage/range ³		240 / 211 – 264
Max continuous output current	1.0	1.2 ¹
Nominal frequency		60
Extended frequency range		50 – 68
Max units per 20 A (L-L) branch circuit ⁴	16	13
Total harmonic distortion		<5%
Overvoltage class AC port		III
AC port backload current		30
Power factor setting		1.0
Grid-tied power factor (adjustable)		0.85 leading – 0.85 lagging
Pgvt efficiency	97.5	97.6
CFC weighted efficiency	97	97
Night-time power consumption		60

COMPLIANCE		IQ8 (UL 1741-SA)		IQ8+ (UL 1741-SA)			
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Certifications		CA Rule 21 (UL 1741-SA), UL 82109-1, UL1741/IEEE1547, FCC Part 15 Class B, IEC61850-3 Class B, CAN/CSA-C22.2 NO. 107-F01					
This product is UL Listed as PV Rapid Shutdown Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C221-2018 Rule 64-2.8 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.							

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Certifications		CA Rule 21 (UL 1741-SA), UL 82109-1, UL1741/IEEE1547, FCC Part 15 Class B, IEC61850-3 Class B, CAN/CSA-C22.2 NO. 107-F01					
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Certifications		CA Rule 21 (UL 1741-SA), UL 82109-1, UL1741/IEEE1547, FCC Part 15 Class B, IEC61850-3 Class B, CAN/CSA-C22.2 NO. 107-F01					
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COMPLIANCE		IQ8 (UL 1741-SA)		IQ8+ (UL 1741-SA)			
Certifications		CA Rule 21 (UL 1741-SA), UL 8210					

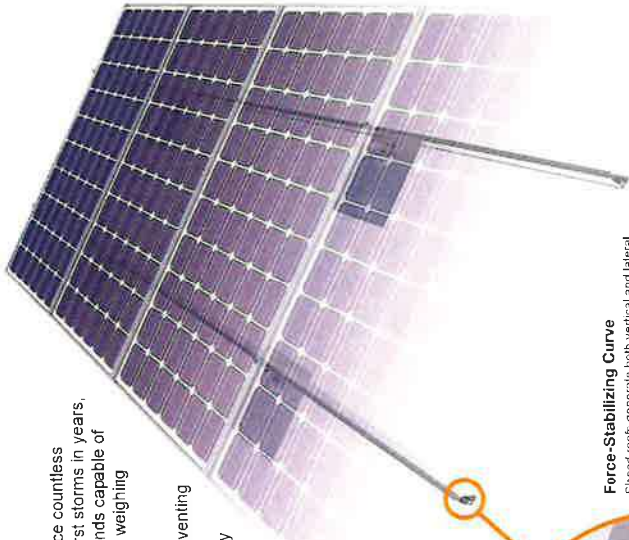
(1) No enforced DC/AC ratio. See the compatibility calculator at <https://na.enphase.com/> for module compatibility. (2) Maximum continuous input DC current is 10.6A (3) Nominal voltage range can be extended beyond nominal if required by the utility. (4) Units may vary, refer to local requirements to define the number of microinverters per branch in your area.



Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

XR Rails are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.



Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

Compatible with Flat & Pitched Roofs

XR Rails are compatible with Flashfoot and other pitched roof attachments.



Corrosion-Resistant Materials

All XR Rails are made of 6000-series aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.



XR Rail Family

Tech Brief

XR Rail Family

The XR Rail Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail to match.



XR10

XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves spans up to 6 feet, while remaining light and economical.

- 6' spanning capability
- Moderate load capability
- Clear & black anodized finish
- Internal splices available



XR100

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 10 feet.

- 10' spanning capability
- Extreme load capability
- Clear & black anodized finish
- Internal splices available



XR1000

XR1000 is a heavy-weight, among solar mounting rails. It's built to handle some of the most demanding conditions and spans up to 12 feet for commercial applications.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish
- Internal splices available

Rail Selection

The table below was prepared in compliance with applicable engineering codes and standards.* Values are based on the following criteria: ASCE 7-16, Gable Roof Flush Mount, Roof Zones 1 & 2e, Exposure B, Roof Slope of 8 to 20 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed certification letters.

Load		Rail Span					
		4'	5' 4"	6'	8'	10'	12'
Snow (PSF)	Wind (MPH)						
	90						
	120						
	140						
None	160						
	90						
	120						
	140						
20	160						
	90						
	120						
	140						
30	160						
	90						
	120						
	140						
40	160						
	90						
	120						
	140						
80	160						
	90						
	120						
	140						
120	160						
	90						
	120						
	140						

*Values are meant to be a typical value that is not intended to be used as a design value. For design values, see applicable codes and standards.

GODWIN ENGINEERING AND DESIGN, LLC

8378 Foxtail Loop, Pensacola, FL 32526 | (850)712-4219 | chad@godwineng.com

January 30, 2023

To: Marion County Building Safety
2710 E. Silver Springs Blvd.
Ocala, FL 34470

Re: Feketa- Residential PV Ground Mount Installation
4311 Se 18th Ave.
Ocala, FL 34480

Plan Reviewer,

This letter is regarding the installation of a new ground-mounted Solar PV system at the address above. I have analyzed/reviewed the attached plans and have determined that the Ground Mounted PV Structure is in compliance with the applicable sections of the following Codes and Reference documents:

Codes:

2020 Florida Building Code 7th Ed., FBC
ASCE/SEI 7-10 Min. Design Loads for Buildings & Other Structures

References:

Aluminum Design Manual 2015.
IronRidge Exhibit EX-0001

Per FBC 2020, the Ground Mounted PV structure is considered risk category I structure and will be subject to the following design criteria: Design Wind Speed (V_{ult}) - 140mph 3sec gust, Exposure Category - B

The structure is a simple column(pier) and beam (cross pipe) system. The tops of the piers are connected in the E-W direction by the cross pipes which cantilever over and extend past the end piers. The cross pipes are connected by proprietary IronRidge rails spanning up and down the slope which cantilever over and extend past the top and bottom cross pipes. There are typically two rails per column of modules. The modules are clamped to the rails by the Sunmodo module mounting clamps.

If the structure is constructed according to the attached drawings and in accordance with the IronRidge Ground Mount installation manual, it will be more than adequate to support the design wind loads.

Please see attached documents and contact me should you have any questions.

Sincerely,

D. Chad Godwin, PE 81360
Exp. 02/28/2023



THIS ITEM HAS BEEN ELECTRONICALLY
SIGNED AND SEALED BY DONNIE CHAD
GODWIN USING A DIGITAL SIGNATURE AND
DATE. PRINTED COPIES OF THIS DOCUMENT
ARE NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED ON
ANY ELECTRONIC COPIES

Digitally
signed by
Donnie
Godwin
Date:
2023.02.24
08:38:43
-06'00'

OCALA ELECTRIC UTILITY
OCALA, FLORIDA

FIRST REVISED SHEET NO. 20.0
CANCELS ORIGINAL SHEET NO. 20.0

Tri-Party Net-Metering Power Purchase Agreement

This Tri-Party Net-Metering Power Purchase Agreement (this "Agreement") is entered into this 3rd day of May, 2023 by and between the Florida Municipal Power Agency, a governmental joint action agency created and existing under the laws of the State of Florida (hereinafter "FMPA"), the City of Ocala doing business as Ocala Electric Utility, a body politic (hereinafter "OEU"), and Carroline Torres, a retail electric customer of OEU (hereinafter "Customer").

Section 1. Recitals

1.01. OEU and Customer have executed OEU's Standard Interconnection Agreement for a Customer-Owned Renewable Generation System (RGS) pursuant to which OEU has agreed to permit interconnection of Customer's renewable generation to OEU's electric system at Customer's presently-metered location, and Customer has agreed to deliver excess electric energy generated by Customer's Renewable Generation System to OEU's electric distribution system;

1.02. The City of Ocala and FMPA have entered into the All-Requirements Power Supply Contract, dated as of May 1, 1986, (hereinafter the "ARP Contract") pursuant to which the City of Ocala has agreed to purchase and receive, and FMPA has agreed to sell and supply OEU with all energy and capacity necessary to operate the OEU electric system, which limits OEU's ability to directly purchase excess energy from customer-owned renewable generation.

1.03. In order to promote the development of small customer-owned renewable generation by permitting OEU to allow its customers to interconnect with OEU's electric system and to allow OEU's electric customers to offset their electric consumption with customer-owned renewable generation, FMPA, in accordance with the terms and conditions of this agreement, has agreed to purchase excess customer-owned generation from OEU's electric customers interconnected to OEU's electric system.

NOW THEREFORE, for and in consideration of the mutual covenants and agreements set forth herein, the Parties covenant and agree as follows:

Section 2. Interconnection

2.01. Customer shall not begin parallel operations with the OEU electric distribution system until Customer has executed OEU's electric Standard Interconnection Agreement for Small Customer-Owned Renewable Generation and is in compliance with all terms and conditions

OEU requires that the customer install and operate the RGS in accordance with all applicable safety codes and standards. OEU shall establish and enforce terms and conditions of operation and disconnection of all interconnected customer-owned renewable generation as it relates to the effect of the RGS on OEU's electric distribution system.

(Continued on Sheet No. 20.1)

Issued by: Michael Poucher, P.E.
Electric Utility Director

Effective: October 1, 2019

OCALA ELECTRIC UTILITY
OCALA, FLORIDA
(Continued from Sheet No. 20.0)

FIRST REVISED SHEET NO. 20.1
CANCELS ORIGINAL SHEET NO. 20.1

Section 3. Metering

3.01 In accordance with the OEU's Standard Interconnection Agreement for Customer-Owned Renewable Generation, OEU shall install metering equipment at the point of delivery capable of recording two separate kWh meter readings: (1) the flow of electricity from OEU to the Customer (Delivered), and (2) the flow of excess electricity from the Customer to OEU. OEU shall take meter readings on the same cycle as the otherwise applicable rate schedule.

Section 4. Purchase of Excess Customer-Owned Renewable Generation

4.01. Customer-owned renewable generation shall be first used for Customer's own load and shall offset Customer's demand for OEU's electricity. All electric power and energy delivered by OEU to Customer shall be received and paid for by Customer to OEU (Received) pursuant to the terms, conditions and rates of the OEU otherwise applicable rate schedule.

4.02. Excess customer-owned renewable generation shall be delivered to the OEU Electric distribution system. For purposes of this Agreement, the term "excess customer-owned renewable generation" means any kWh of electrical energy produced by the customer-owned renewable generation system that is not consumed by Customer and is delivered to the OEU electric distribution system. FMPA agrees to purchase and receive, and Customer agrees to sell and deliver, all excess customer-owned renewable generation at the energy rate established by FMPA, which shall be calculated in accordance with Schedule A. Excess customer-owned renewable generation shall be purchased in the form of a credit on Customer's monthly energy consumption bill from OEU.

4.03. In the event that a given monthly credit for excess customer-owned renewable generation exceeds the total billed amount for Customer's consumption in any corresponding month, then the excess credit shall be applied to the subsequent month's bill. Excess energy credits produced pursuant to the preceding sentence shall accumulate and be used to offset Customer's energy consumption bill for a period of not more than twelve (12) months. At the end of each calendar year, any unused excess energy credits shall be paid by OEU to the Customer in accordance with the OEU Electric Net-Metering Service Rate Schedule.

(Continued on Sheet No. 20.2)

Issued by: Michael Poucher, P.E.
Electric Utility Director

Effective: October 1, 2019

Ocala Electric Utility
Ocala, Florida
(Continued from Sheet No. 20.1)

FIRST REVISED SHEET NO. 20.2
CANCELS ORIGINAL SHEET NO. 20.2

4.04. FMPA and OEU shall not be required to purchase or receive excess customer-owned renewable generation, and may require Customer to interrupt or reduce production of customer-owned renewable generation, (a) when necessary in order to construct, install, maintain, repair, replace, remove, investigate, or inspect any OEU equipment or part of OEU's system; or (b) if either FMPA or OEU determine, in their sole judgment, that curtailment, interruption, or reduction is necessary because of emergencies, forced outages, force majeure, or compliance with any applicable electric code or standard.

4.05. Customer acknowledges that its provision of electricity to OEU hereunder is on a first-offered, first-accepted basis and subject to diminution and/or rejection in the event the total amount of electricity delivered to OEU pursuant to the Net-Metering Service Rate Schedule (as filed with the Florida Public Service Commission), from all participating OEU customers, exceeds two and one-half percent (2.5%) of the aggregate customer peak demand on the OEU electric system.

Section 5. Renewable Energy Credits

5.01. Customer shall offer FMPA a first right of refusal before selling or granting to any third party the right to the Green Attributes associated with its customer-owned renewable generation that is interconnected to OEU electric distribution system. The term "Green Attributes" shall include any and all credits, certificates, benefits, environmental attributes, emissions reductions, offsets, and allowances, however entitled, attributable to the generation of electricity from the customer-owned-renewable generation and its displacement of conventional energy generation.

5.02. Any additional meter(s) installed to measure total renewable electricity generated by the Customer for the purposes of measuring Green Attributes, including and renewable energy certificates (or similarly titled credits for renewable energy generated), shall be installed at the expense of the Customer, unless determined otherwise during negotiations for the sale of the Customer's credits to FMPA.

Section 6. Term and Termination

6.01. This Agreement shall become effective upon execution by all Parties, and shall remain in effect thereafter on a month-to-month basis until terminated by any Party upon thirty (30) days written notice to all other Parties.

6.02. This Agreement shall terminate immediately and without notice upon: (a) termination of the electric distribution service by OEU or (b) failure by Customer to comply with any of the terms and conditions of this Agreement or OEU's Standard Interconnection Agreement for Customer-Owned Renewable Generation.

(Continued on Sheet No. 20.3)

Issued by: Michael Poucher, P.E.
Electric Utility Director

Effective: October 1, 2019

OCALA ELECTRIC UTILITY
OCALA, FLORIDA
(Continued from Sheet No. 20.2)

FIRST REVISED SHEET NO. 20.3
CANCELS ORIGINAL SHEET NO. 20.3

Section 7. Miscellaneous Provisions

7.01. **Assignment**. It is understood and agreed that no party may transfer, sell, mortgage, pledge, hypothecate, convey, designate, or otherwise assign this Agreement, or any interest herein or any rights or obligations hereunder, in whole or in part, either voluntarily or by operation of law, (including, without limitation, by merger, consolidation, or otherwise), without the express written consent of the other parties (and any such attempt shall be void), which consent shall not be unreasonably withheld. Subject to the foregoing, this Agreement shall inure to the benefit of and be binding upon the parties and their respective successors and permitted assigns.

7.02. **Amendment**. It is understood and agreed that FMPA and OEU reserve the right, on no less than an annual basis, to change any of the terms and conditions, including pricing, in this Agreement on sixty (60) days advance written notice. FMPA and OEU may make such changes on an immediate basis in the event any applicable law, rule, regulation or court order requires them. In such event, FMPA and OEU will give Customer as much notice as reasonably possible under the circumstances.

7.03. **Indemnification**. To the fullest extent permitted by laws and regulations, and in return for adequate, separate consideration, Customer shall defend, indemnify, and hold harmless FMPA and OEU, their officers, directors, agents, guests, invitees, and employees from and against all claims, damages, losses to persons or property, whether direct, indirect, or consequential (including but not limited to fees and charges of attorneys, and other professionals and court and arbitration costs) arising out of, resulting from, occasioned by, or otherwise caused by the operation or misoperation of the customer-owned renewable generation, or the acts or omissions of any other person or organization directly or indirectly employed by the Customer to install, furnish, repair, replace or maintain the customer-owned renewable generation system, or anyone for whose acts any of them may be liable.

7.04. **Governing Law**. The validity and interpretation of this Agreement and the rights and obligations of the parties shall be governed and construed in accordance with the laws of the State of Florida without regard for any conflicts of law provisions that might cause the law of other jurisdictions to apply. All controversies, claims, or disputes arising out of or related to this Agreement or any agreement, instrument, or document contemplated hereby, shall be brought exclusively in the County or Circuit Court for Marion County, Florida, or the United States District Court sitting in Marion County, Florida, as appropriate.

(Continued on Sheet No. 20.4)

Issued by: Michael Poucher, P.E.
Electric Utility Director

Effective: October 1, 2019

OCALA ELECTRIC UTILITY
OCALA, FLORIDA
(Continued from Sheet No. 20.3)

FIRST REVISED SHEET NO. 20.4
CANCELS ORIGINAL SHEET NO. 20.4

7.05. Enforcement of Agreement. In the event that either party is required to enforce this Agreement by court proceedings or otherwise, the prevailing party shall be entitled to recover all fees and costs incurred, including reasonable attorney's fees and costs for trial, alternative dispute resolution, and/or appellate proceedings.

7.06. Severability. To the extent any provision of this Agreement is prohibited by or invalid under applicable law, such provision shall be ineffective to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Agreement.

7.07. Third Party Beneficiaries and Sovereign Immunity. This Agreement is solely for the benefit of FMPA, OEU, and Customer and no right nor shall any cause of action accrue upon or by reason, to or for the benefit of any third party not a formal party to this Agreement. Nothing in this Agreement, expressed or implied, is intended or shall be construed to confer upon any person or corporation other than FMPA, OEU, or Customer, any right, remedy, or claim under or by reason of this Agreement or any of the provisions or conditions of this Agreement; and, all provisions, representations, covenants, and conditions contained in this Agreement shall inure to the sole benefit of and be binding upon FMPA, OEU, and Customer and their respective representatives, successors, and assigns. Further, no term or condition contained in this Agreement shall be construed in any way as a waiver by either FMPA or OEU of the sovereign immunity applicable to either or both of them as established by Florida Statutes, 768.28.

(Continued on Sheet No. 20.5)

Issued by: Michael Poucher, P.E.
Electric Utility Director

Effective: October 1, 2019

OCALA ELECTRIC UTILITY
OCALA, FLORIDA
(Continued from Sheet No. 20.4)

FIRST REVISED SHEET NO. 20.5
CANCELS ORIGINAL SHEET NO. 20.5

IN WITNESS WHEREOF, Customer and OEU have executed this Agreement the day and year first above written.

City of Ocala Electric Utility

By: DocuSigned by:
Jarvis Mitchell
3019084300A4E1
Title: CFO
Date: 8/2/2023

Florida Municipal Power Agency

By: DocuSigned by:
[Signature]
087708E8B38D474
Title: VP of IT/OT and System Ops
Date: 8/2/2023

Customer
By: Caroline Torres
(Print Name)
[Signature]
(Signature)

Date: 8/3/23

Customer's City of Ocala Electric Utility Account Number: 530497-2426419

Approved as to form and legality:

DocuSigned by:
William E. Sexton
807DCE4E8E429
William E. Sexton
City Attorney

(Continued on Sheet No. 20.6)

Issued by: Michael Poucher, P.E.
Electric Utility Director

Effective: October 1, 2019

OCALA ELECTRIC UTILITY
OCALA, FLORIDA
(Continued from Sheet No. 20.5)

FIRST REVISED SHEET NO. 20.6
CANCELS ORIGINAL SHEET NO. 20.6

**Tri-Party Net-Metering Power Purchase Agreement
Schedule A**

I. All-Requirements Project Calculation of Excess Customer-Owned Renewable Generation Credit

- a) FMPPA shall pay OEU for the excess kWh energy delivered by customer-owned renewable generation to OEU's electric system. Every month, OEU shall determine the total kWh of customer-owned renewable generation that is delivered to OEU's electric system, and shall send the information to FMPPA as soon as it becomes available, but no later than the second working day of every month. FMPPA will then provide a monthly payment to OEU in the form of a credit on the ARP power bill for the excess energy delivered to the distribution grid. The ARP Renewable Generation Credit will be calculated as follows:

ARP Renewable Generation Credit = Quarterly Energy Rate * Monthly kWh of excess customer-owned renewable generation

Quarterly Energy Rate = 3 month average of ARP energy rate. FMPPA will update the Quarterly Energy Rate every April 1, July 1, October 1 and January 1.

- b) As part of the monthly bill adjustment, FMPPA will also increase OEU's kWh billing amount by the same kWh amount as the customer-owned renewable generation purchased by FMPPA. This adjustment is necessary because excess customer generation that flows onto OEU's electric system has been purchased by FMPPA, but will remain on OEU's electric system and be used by OEU to meet its other customers' electric needs. As a result, OEU's monthly ARP bill will be adjusted accordingly to reflect FMPPA's subsequent sale of this energy to OEU.

II. Payment for Unused Excess Energy Credits

- a) Monthly excess energy credits shall accumulate and be used to offset the Customer's following month energy consumption bill for a period of not more than twelve (12) months.
- b) At the end of each calendar year, OEU shall pay the Customer for any unused excess energy credits in accordance with the OEU Electric Net-Metering Service Rate Schedule.

OCALA UTILITY SERVICES
OCALA, FLORIDA

ORIGINAL SHEET NO. 21.0

Tier 1 – Standard Interconnection Agreement Customer-Owned Renewable Generation System

This Agreement is made and entered into this 3rd day of May, 2023, by and between _____, (hereinafter called "**Customer**"), located at 4311 SE 18th Ave. in Ocala, Florida, and the City of Ocala doing business as Ocala Utility Services (hereinafter called OUS), a body politic. Customer and OUS shall collectively be called the "**Parties**". The physical location/premise where the interconnection is taking place: 4311 SE 18th Ave; Ocala, FL 34480

WITNESSETH

Whereas, a Tier 1 Renewable Generation System (RGS) is an electric generating system that uses one or more of the following fuels or energy sources: hydrogen, biomass, solar energy, geothermal energy, wind energy, ocean energy, waste heat, or hydroelectric power as defined in Section 377.803, Florida Statutes, rated at no more than ten (10) kilowatts (10 kW) alternating current (AC) power output and is primarily intended to offset part or all of the Customer's current electric requirements; and

Whereas, OUS operates an electric system serving the City of Ocala; and

Whereas, Customer has made a written Application to OUS, a copy being attached hereto, to interconnect its RGS with OUS' electrical supply grid at the location identified above; and

Whereas, the City of Ocala and the Florida Municipal Power Agency (hereinafter called "FMPPA") have entered into the All-Requirements Power Supply Contract pursuant to which the City of Ocala has agreed to purchase and receive, and FMPPA has agreed to sell and supply OUS with all energy and capacity necessary to operate the OUS electric system, which limits OUS' ability to directly purchase excess energy from customer-owned renewable generation; and

Whereas, in order to promote the development of small customer-owned renewable generation by permitting OUS to allow its customers to interconnect with OUS' electric system and to allow OUS customers to offset their electric consumption with customer-owned renewable generation, FMPPA, in accordance with the terms and conditions of this agreement, has agreed to purchase excess customer-owned generation from OUS customers interconnected to OUS' electric system; and

(Continued on Sheet No. 21.1)

OCALA UTILITY SERVICES
OCALA, FLORIDA
(Continued from Sheet No. 21.0)

ORIGINAL SHEET NO. 21.1

Whereas, the OUS desires to provide interconnection of a RGS under conditions which will insure the safety of OUS customers and employees, reliability and integrity of its distribution system;

NOW, THEREFORE, for and in consideration of the mutual covenants and agreements herein set forth, the parties hereto covenant and agree as follows:

1. The Customer shall be required to enter into a Tri-Party Net-Metering Purchase Power Agreement with FMPA and the City of Ocala Utility Services (OUS).
2. "Gross power rating" (GPR) means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with OUS' distribution facilities. For inverter-based systems, the GPR shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.
3. This agreement is strictly limited to cover a Tier 1 RGS as defined above. It is the Customer's responsibility to notify OUS of any change to the GPR of the RGS by submitting a new application for interconnection specifying the modifications at least 30 days prior to making the modifications. Increase in GPR above the ten kilowatt (10 kW) limit would necessitate entering into a new agreement at either Tier 2 or Tier 3 which may impose additional requirements on the Customer. In no case does the Tier 1, Tier 2 or Tier 3 agreement cover increases in GPR above two megawatts (2MW).
4. The RGS GPR must not exceed 90 percent (90%) of the Customer's OUS' distribution service rating at the Customer's location. If the GPR does exceed the 90 percent (90%) limit, the Customer shall be responsible to pay the cost of upgrades to the distribution facilities required to accommodate the GPR capacity and ensure the 90 percent (90%) threshold is not breached.
5. The Customer shall not be required to pay any special fees due solely to the installation of the RGS.
6. The Customer shall fully comply with OUS' Design Standards following NEC standards as those documents may be amended or revised by OUS from time to time.
7. The Customer certifies that its installation, its operation and its maintenance shall be in compliance with the following standards:
 - a. IEEE-1547 (2003) Standard for Interconnecting Distributed Resources with Electric Power System;

(Continued to Sheet No. 21.2)

OCALA UTILITY SERVICES
OCALA, FLORIDA
(Continued from Sheet No. 21.1)

ORIGINAL SHEET NO. 21.2

- b. IEEE-1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnection Distributed Resources with Electric Power Systems;
 - c. UL-1741 (2005) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed *Energy Resources*.
 - d. The National Electric Code, state and/or local building codes, mechanical codes and/or electrical codes;
 - e. The manufacturer's installation, operation and maintenance instructions.
8. The Customer is not precluded from contracting for the lease, operation or maintenance of the RGS with a third party. Such lease may not provide terms or conditions that provide for any payments under the agreement to any way indicate or reflect the purchase of energy produced by the RGS. Customer shall not enter into any lease agreement that results in the retail purchase of electricity; or the retail sale of electricity from the customer-owned renewable generation. Notwithstanding this restriction, in the event that Customer is determined to have engaged in the retail purchase of electricity from a party other than OUS, then Customer shall be in breach of this Agreement and may be subject to the jurisdiction of the Florida Public Service Commission and to fines/penalties.
9. The Customer shall provide a copy of the manufacturer's installation, operation and maintenance instructions to OUS. If the RGS is leased to the Customer by a third party, or if the operation or maintenance of the RGS is to be performed by a third party, the lease and/or maintenance agreements and any pertinent documents related to these agreements shall be provided to OUS.
10. Prior to commencing parallel operation with OUS' electric system, Customer shall have the RGS inspected and approved by the appropriate code authorities having jurisdiction. Customer shall provide a copy of this inspection and approval to OUS.
11. The Customer agrees to permit OUS, if it should so choose, to inspect the RGS and its component equipment and the documents necessary to ensure compliance with this Agreement both before and after the RGS goes into service and to witness the initial testing of the RGS equipment and protective apparatus. OUS will provide Customer with as much notice as reasonably possible, either in writing, email, facsimile or by phone as to when OUS may conduct inspections and or document review. Upon reasonable notice, or at any time without notice in the event of an emergency or hazardous condition, Customer agrees to provide OUS access to the Customer's premises for any purpose in connection with the performance of the obligations

(Continued on Sheet No. 21.3)

OCALA UTILITY SERVICES
OCALA, FLORIDA
(Continued from Sheet No. 21.2)

ORIGINAL SHEET NO. 21.3

required by this Agreement or, if necessary, to meet OUS' legal obligation to provide service to its customers. At least ten (10) business days prior to initially placing the customer-owned renewable generation system in service, Customer shall provide written notification to OUS advising of the date and time at which Customer intends to place the system in service, and OUS shall have the right to have personnel present on the in-service date in order to ensure compliance with the requirements of this Agreement.

12. Customer certifies that the RGS equipment includes an OUS interactive inverter or interconnection system equipment that ceases to interconnect with the OUS system upon a loss of OUS' electric power. The inverter shall be considered certified for interconnected operation if it has been submitted by a manufacturer to a nationally recognized testing laboratory (NRTL) to comply with UL 1741. The NRTL shall be approved by the Occupational Safety & Health Administration (OSHA).

13. If Customer adds another RGS that (i) utilizes the same OUS interactive inverter for both systems, or (ii) utilizes a separate OUS interactive inverter for each system, Customer shall provide OUS with sixty (60) days advance written notice of the addition.

14. The Customer shall not energize the OUS system when OUS' system is deenergized. The Customer shall cease to energize the OUS system during a faulted condition on the OUS system and/or upon any notice from OUS that the deenergizing of Customer's RGS equipment is necessary. The Customer shall cease to energize the OUS system prior to automatic or non-automatic reclosing of OUS' protective devices. There shall be no intentional islanding, as described in IEEE 1547, between the Customer's and OUS' systems.

15. The Customer is responsible for the protection of its generation equipment, inverters, protection devices, and other system components from damage from the normal and abnormal operations that occur on OUS system in delivering and restoring system power. Customer agrees that any damage to any of its property, including, without limitation, all components and related accessories of its RGS system, due to the normal or abnormal operation of OUS system, is at Customer's sole risk and expense. Customer is also responsible for ensuring that the customer-owned renewable generation equipment is inspected, maintained, and tested regularly in accordance with the manufacturer's instructions to ensure that it is operating correctly and safely.

16. The Customer must install, at their expense, a manual disconnect switch of the visible load break type to provide a separation point between the AC power output of the customer-owned renewable generation system and any Customer wiring connected to OUS' system, such that

(Continued on Sheet No. 21.4)

OCALA UTILITY SERVICES
OCALA, FLORIDA
(Continued from Sheet No. 21.3)

ORIGINAL SHEET NO. 21.4

back feed from the customer-owned renewable generation system to OUS' system cannot occur when the switch is in the open position. The manual disconnect switch shall be mounted separate from the meter socket on an exterior surface adjacent to the meter. The switch shall be readily accessible to OUS and capable of being locked in the open position with an OUS padlock. When locked and tagged in the open position by OUS, this switch will be under the control of OUS.

17. Subject to an approved inspection, including installation of acceptable disconnect switch, this Agreement shall be executed by OUS within thirty (30) calendar days of receipt of a completed application. Customer must execute this Agreement and return it to OUS at least thirty (30) calendar days prior to beginning parallel operations with OUS' electric system, subject to the requirements of Section 18, below, and within one (1) year after OUS executes this Agreement.

18. Once OUS has received Customer's written documentation that the requirements of this Agreement have been met, all agreements and documentation have been received and the correct operation of the manual switch has been demonstrated to an OUS representative, OUS will, within fifteen (15) business days, send written notice that parallel operation of the RGS may commence.

19. OUS requires the Customer to maintain general liability insurance for personal injury and property damage in the amount of not less than one hundred thousand dollars (\$100,000.00).

20. OUS will furnish, install, own and maintain metering equipment capable of measuring the flow of kilowatt-hours (kWh) of energy. The Customer's service associated with the RGS will be metered to measure the energy delivered by OUS to Customer, and measure the energy delivered by Customer to OUS. Customer agrees to provide safe and reasonable access to the premises for installation, maintenance and reading of the metering and related equipment. The Customer shall not be responsible for the cost of the installation and maintenance of the metering equipment necessary to measure the energy delivered by the Customer to OUS.

21. The Customer shall be solely responsible for all legal and financial obligations arising from the design, construction, installation, operation, maintenance and ownership of the RGS.

22. The Customer must obtain all permits, inspections and approvals required by applicable jurisdictions with respect to the generating system and must use a licensed, bonded and insured contractor to design and install the generating system. The Customer agrees to provide

(Continued on Sheet No. 21.5)

OCALA UTILITY SERVICES
OCALA, FLORIDA
(Continued from Sheet No. 21.4)

ORIGINAL SHEET 21.5

OUS with a copy of the local building code official inspection and certification of installation. The certification shall reflect that the local code official has inspected and certified that the installation was permitted, has been approved, and has met all electrical and mechanical qualifications.

23. In no event shall any statement, representation, or lack thereof, either express or implied, by OUS, relieve the Customer of exclusive responsibility for the Customer's system. Specifically, any OUS inspection of the RGS shall not be construed as confirming or endorsing the system design or its operating or maintenance procedures or as a warranty or guarantee as to the safety, reliability, or durability of the RGS. OUS' inspection, acceptance, or its failure to inspect shall not be deemed an endorsement of any RGS equipment or procedure. Further, as set forth in Sections 15 and 26 of this Agreement, Customer shall remain solely responsible for any and all losses, claims, damages and/or expenses related in any way to the operation or misoperation of its RGS equipment.

24. Notwithstanding any other provision of this Interconnection Agreement, OUS, at its sole and absolute discretion, may isolate the Customer's system from the distribution grid by whatever means necessary, without prior notice to the Customer. To the extent practical, however, prior notice shall be given. The system will be reconnected as soon as practical once the conditions causing the disconnection cease to exist. OUS shall have no obligation to compensate the Customer for any loss of energy during any and all periods when Customer's RGS is operating at reduced capacity or is disconnected from OUS' electrical distribution system pursuant to this Interconnection Agreement. Typical conditions which may require the disconnection of the Customer's system include, but are not limited to, the following:

- a. OUS system emergencies, forced outages, uncontrollable forces or compliance with prudent electric OUS practice.
- b. When necessary to investigate, inspect, construct, install, maintain, repair, replace or remove any OUS equipment, any part of OUS' electrical distribution system or Customer's generating system.
- c. Hazardous conditions existing on OUS' system due to the operation of the Customer's generation or protective equipment as determined by OUS.
- d. Adverse electrical affects (such as power quality problems) on the electrical equipment of OUS' other electric consumers caused by the Customer's generation as determined by OUS.

(Continued to Sheet No. 21.6)

OCALA UTILITY SERVICES
OCALA, FLORIDA
(Continued from Sheet No. 21.5)

ORIGINAL SHEET NO. 21.6

- e. When Customer is in breach of any of its obligations under this Interconnection Agreement or any other applicable policies and procedures of OUS.
- f. When the Customer fails to make any payments due to OUS by the due date thereof.

25. Upon termination of services pursuant to this Agreement, OUS shall open and padlock the manual disconnect switch and remove any additional metering equipment related to this Agreement. At the Customer's expense, within thirty (30) working days following the termination, the Customer shall permanently isolate the RGS and any associated equipment from OUS' electric supply system, notify OUS that the isolation is complete, and coordinate with OUS for return of OUS' lock.

26. To the fullest extent permitted by law, and in return for adequate, separate consideration, Customer shall indemnify, defend and hold harmless OUS, any and all of their members of its governing bodies, and its officers, agents, and employees for, from and against any and all claims, demands, suits, costs of defense, attorneys fees, witness fees of any type, losses, damages, expenses, and liabilities, whether direct, indirect or consequential, related to, arising from, or in any way connected with:

- a. Customer's design, construction, installation, inspection, maintenance, testing or operation of Customer's generating system or equipment used in connection with this Interconnection Agreement, irrespective of any fault on the part of OUS.
- b. The interconnection of Customer's generating system with, and delivery of energy from the generating system to, OUS' electrical distribution system, irrespective of any fault on the part of OUS.
- c. The performance or nonperformance of Customer's obligations under this Interconnection Agreement or the obligations of any and all of the members of Customer's governing bodies and its officers, agents, contractors (and any subcontractor or material supplier thereof) and employees.

Customer's obligations under this Section shall survive the termination of this Interconnection Agreement.

27. Customer shall not have the right to assign its benefits or obligations under this Agreement without OUS' prior written consent and such consent shall not be unreasonably withheld. If there is a change in ownership of the RGS, Customer shall provide written notice to OUS at least thirty (30) days prior to the change in ownership. The new owner will be required to assume,

(Continued on Sheet No. 21.7)

OCALA UTILITY SERVICES
OCALA, FLORIDA
(Continued from Sheet No. 21.6)

ORIGINAL SHEET NO. 21.7

in writing, the Customer's rights and duties under this Agreement, or execute a new Standard Interconnection Agreement. The new owner shall not be permitted to net meter or begin parallel operations until the new owner assumes this Agreement or executes a new Agreement.

28. This Agreement supersedes all previous agreements and representations either written or verbal heretofore made between OUS and Customer with respect to matters herein contained. This Agreement, when duly executed, constitutes the only Agreement between parties hereto relative to the matters herein described. This Agreement shall continue in effect from year to year until either party gives sixty (60) days' notice of its intent to terminate this Agreement.

29. This Agreement shall be governed by and construed and enforced in accordance with the laws, rules and regulations of the State of Florida and OUS' tariff as it may be modified, changed, or amended from time to time, including any amendments modification or changes to OUS' Net-Metering Service Rate Schedule, the schedule applicable to this Agreement. The Customer and OUS agree that any action, suit, or proceeding arising out of or relating to this Interconnection Agreement shall be initiated and prosecuted in the state court of competent jurisdiction located in Marion County, Florida, and OUS and the Customer irrevocably submit to the jurisdiction and venue of such court. To the fullest extent permitted by law, each Party hereby irrevocably waives any and all rights to a trial by jury and covenants and agrees that it will not request a trial by jury with respect to any legal proceeding arising out of or relating to this Interconnection Agreement.

None of the provisions of this Interconnection Agreement shall be considered waived by either Party except when such waiver is given in writing. No waiver by either Party of any one or more defaults in the performance of the provisions of this Interconnection Agreement shall operate or be construed as a waiver of any other existing or future default or defaults. If any one or more of the provisions of this Interconnection Agreement or the applicability of any provision to a specific situation is held invalid or unenforceable, the provision shall be modified to the minimum extent necessary to make it or its application valid and enforceable, and the validity and enforceability of all other provisions of this Interconnection Agreement and all other applications of such provisions shall not be affected by any such invalidity or unenforceability. This Interconnection Agreement does not govern the terms and conditions for the delivery of power and energy to non-generating retail customers of OUS' electrical distribution system.

(Continued on Sheet No. 21.8)

OCALA UTILITY SERVICES
OCALA, FLORIDA
(Continued from Sheet No. 21.7)

ORIGINAL SHEET NO. 21.8

30. This Agreement incorporates by reference the terms of the tariff filed with the Florida Public Service Commission by OUS, including OUS' Net-Metering Service Rate Schedule, and associated technical terms and abbreviations, general rules and regulations and standard electric service requirements (as may be applicable) are incorporated by reference, as amended from time to time. To the extent of any conflict between this Agreement and such tariff, the tariff shall control.

31. OUS and Customer recognize that the Florida Statutes and/or the Florida Public Service Commission Rules, including those directly addressing the subject of this Agreement, may be amended from time to time. In the event that such statutes and/or rules are amended that affect the terms and conditions of this Agreement, OUS and Customer agree to supersede and replace this Agreement with a new Interconnection Agreement, which complies with the amended statutes/rules.

32. Customer acknowledges that its provision of electricity to OUS hereunder is on a first-offered, first-accepted basis and subject to diminution and/or rejection in the event the total amount of electricity delivered to OUS pursuant to the OUS' Net-Metering Service Rate Schedule, (as filed with the Florida Public Service Commission), from all participating OUS customers, exceeds two and one-half percent (2.5%) of the aggregate customer peak demand on the OUS system.

33. This Agreement is solely for the benefit of OUS and Customer and no right nor any cause of action shall accrue upon or by reason, to or for the benefit of any third party not a formal party to this Agreement. Nothing in this Agreement, expressed or implied, is intended or shall be construed to confer upon any person or corporation other than OUS or Customer, any right, remedy, or claim under or by reason of this Agreement or any of the provisions or conditions of this Agreement; and, all provisions, representations, covenants, and conditions contained in this Agreement shall inure to the sole benefit of and be binding upon OUS and Customer and their respective representatives, successors, and assigns. Further, no term or condition contained in this Agreement shall be construed in any way as a waiver by OUS of the sovereign immunity applicable to OUS as established by Florida Statutes, 768.28.

(Continued on Sheet No. 21.9)

OCALA UTILITY SERVICES
OCALA, FLORIDA
(Continued from Sheet No. 21.8)

ORIGINAL SHEET NO. 21.9

IN WITNESS WHEREOF, Customer and OUS have executed this Agreement the day and year first above written.

City of Ocala Utility Services:

By: DocuSigned by:
Janice Mitchell

Title: CFO

Date: 8/2/2023

Customer:

By: Caroline Torres
(Print Name)

Caroline Torres
(Signature)

Date: 8/3/23

City of Ocala Utility Services Account Number:

530497-242649

Approved as to form and legality:

DocuSigned by:
William E. Sexton

William E. Sexton
City Attorney

Certificate Of Completion

Envelope Id: 97097A7A0E994D428633FD5CA6FA3B6B

Status: Completed

Subject: Tri-Party Net Metering Agreement (Caroline Torres) [ELE/230593]

Source Envelope:

Document Pages: 32

Signatures: 5

Certificate Pages: 5

Initials: 0

AutoNav: Enabled

Envelope Stamping: Enabled

Time Zone: (UTC-05:00) Eastern Time (US & Canada)

Envelope Originator:

Jamil Ramirez

110 SE Watula Avenue

City Hall, Third Floor

Ocala, FL 34471

jramirez@ocalafl.org

IP Address: 216.255.240.104

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Status: Original

7/21/2023 9:57:57 AM

Holder: Jamil Ramirez

jramirez@ocalafl.org

Location: DocuSign

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Pool: City of Ocala - Procurement & Contracting

Location: DocuSign

Signer Events

William E. Sexton

wsexton@ocalafl.org

City Attorney

City of Ocala

Security Level: Email, Account Authentication
(None)**Signature**

DocuSigned by:



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Janice Mitchell

jmittell@ocalafl.org

CFO

Security Level: Email, Account Authentication
(None)

DocuSigned by:



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Signature Adoption: Pre-selected Style

Using IP Address: 216.255.240.104

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Signed: 8/2/2023 4:31:32 PM

Electronic Record and Signature Disclosure:

Accepted: 8/2/2023 4:30:48 PM

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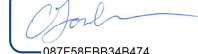
Chris Gowder

chris.gowder@fmpa.com

VP of IT/OT and System Ops

Security Level: Email, Account Authentication
(None)

DocuSigned by:



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Signature Adoption: Uploaded Signature Image

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Viewed: 8/2/2023 5:21:33 PM

Signed: 8/2/2023 5:21:49 PM

Electronic Record and Signature Disclosure:

Accepted: 8/2/2023 5:21:33 PM

ID: b09d12c7-6e4c-4eb0-bca5-2e918c2a4e98

In Person Signer Events**Signature****Timestamp****Editor Delivery Events****Status****Timestamp****Agent Delivery Events****Status****Timestamp****Intermediary Delivery Events****Status****Timestamp**

Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	7/21/2023 10:00:18 AM
Certified Delivered	Security Checked	8/2/2023 5:21:33 PM
Signing Complete	Security Checked	8/2/2023 5:21:49 PM
Completed	Security Checked	8/2/2023 5:21:49 PM
Payment Events	Status	Timestamps
Electronic Record and Signature Disclosure		

ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

From time to time, City of Ocala - Procurement & Contracting (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to this Electronic Record and Signature Disclosure (ERSD), please confirm your agreement by selecting the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

Getting paper copies

At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a \$0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

Withdrawing your consent

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact City of Ocala - Procurement & Contracting:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: contracts@ocalafl.org

To advise City of Ocala - Procurement & Contracting of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at contracts@ocalafl.org and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

To request paper copies from City of Ocala - Procurement & Contracting

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to contracts@ocalafl.org and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

To withdraw your consent with City of Ocala - Procurement & Contracting

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

- i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an email to contracts@ocalafl.org and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: <https://support.docusign.com/guides/signer-guide-signing-system-requirements>.

Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to ‘I agree to use electronic records and signatures’ before clicking ‘CONTINUE’ within the DocuSign system.

By selecting the check-box next to ‘I agree to use electronic records and signatures’, you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify City of Ocala - Procurement & Contracting as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by City of Ocala - Procurement & Contracting during the course of your relationship with City of Ocala - Procurement & Contracting.