

STATE OF NEW YORK  
PUBLIC SERVICE COMMISSION

At a session of the Public Service  
Commission held in the City of  
Albany on October 15, 2020

COMMISSIONERS PRESENT:

John B. Rhodes, Chair  
Diane X. Burman  
James S. Alesi  
Tracey A. Edwards  
John B. Howard

CASE 20-E-0027 - Petition of GridGear Solutions Ltd. for  
Approval of GridGear Meter Model: GG.

ORDER APPROVING ELECTRIC SUBMETER

(Issued and Effective October 19, 2020)

BY THE COMMISSION:

INTRODUCTION

On January 17, 2020, GridGear Solutions Ltd. (GridGear) filed a letter requesting approval of the GridGear Meter Model: GG (GG) for use in residential and commercial submetering applications. By this Order, the Commission finds that the GridGear GG meets the requirements in 16 NYCRR Part 93 under Public Service law (PSL) §67, and therefore approves the GridGear GG for use in residential and commercial submetering applications.

BACKGROUND

Public Service Law (PSL) §67 establishes the requirement that utilities only use electric meters that have been approved by the Commission. As required by 16 NYCRR Part 93, Atlantic Meter Supply - located in New York City, New York -

certifies that, upon approval, it intends to use the GridGear GG in New York State.

The GG is a solid-state revenue grade electric meter designed to monitor energy consumption from multiple residential tenant dwellings or commercial properties. The GridGear GG comes equipped with a visual display, isolated pulse output and adaptable register output for interfacing with third party pulse counters, recorders and Automated Meter Reading systems. The GridGear GG calculates energy consumption by continuously monitoring electric flow using solid core current transformers that convert high primary current to significantly lower secondary current for the meter's integrated processor to interpret. The GridGear GG is compatible with residential and commercial grade service connections. The GridGear GG can measure residential consumption for multiple configurations including 120V Line to Neutral 2 Phase and 120V Line to Neutral 2 Phase/240V Line to Line Single Phase 3 Wire, and commercial consumption including 120V Line to Neutral/208V Line to Line 3 Phase 4 Wire Wye services.<sup>1</sup>

To ensure the GridGear GG performs to national standards and Commission regulations, GridGear employed Underwriters Laboratories (UL), an independent, nationally recognized laboratory, with the capability to conduct the required American National Standards Institute (ANSI) C12.20 test schedule. The GridGear GG was tested while using EChun's ECO20 Series Mini-Precision Current Transformers with a ratio of

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<sup>1</sup> Wye is a method of connecting the ends of the windings of a polyphase transformer. Each of the three windings are joined at a common point, the other end of the windings provides line to line voltage.

200A/100mA.<sup>2</sup> UL determined that the GridGear GG met the applicable performance standards.

NOTICE OF PROPOSED RULE MAKING

Pursuant to the State Administrative Procedure Act (SAPA) §202(1), a Notice of Proposed Rulemaking was published in the State Register on March 4, 2020 [SAPA No. 20-E-0027SP1]. The time for submission of comments pursuant to the Notice expired on May 4, 2020. No comments were received.

DISCUSSION AND CONCLUSION

As required by 16 NYCRR §93.6, GridGear certifies that the GridGear GG is designed and tested to comply with the applicable requirements of 16 NYCRR Part 93, and all tests were conducted by personnel having thorough practical and theoretical knowledge of metering technology and adequate training in making precision measurements. Moreover, GridGear certifies that the accuracy of the test equipment used to test the GridGear GG was established by comparison with standards whose accuracy is traceable to the National Institute of Standards and Technology.

In order to verify a manufacturer's claims regarding its electric meter products, Department of Public Service Staff (Staff) requires that an independent testing laboratory, recognized by the Commission, perform testing based on applicable national standards for review prior to devices being placed into service. Staff reviewed the test report submitted by UL which indicates the GridGear GG is engineered and tested to comply with the applicable requirements of 16 NYCRR Part 93 and ANSI C12.20 at 0.5 accuracy class for electric meters and

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<sup>2</sup> EChun Electronic Co., LTD. is a professional current transformer manufacturer.

meets the required performance standards for accuracy and reliability.

The Commission is satisfied with the certification and national standard testing schedule used to determine the performance of the GridGear GG meter. The Commission, therefore, approves the GridGear GG meter for use in residential and commercial submetering applications.

The Commission orders:

1. The GridGear Meter Model: GG is approved for use in residential and commercial submetering applications in New York State.
2. This proceeding is closed.

By the Commission,

(SIGNED)

MICHELLE L. PHILLIPS  
Secretary