

MYANMAR–CAMBODIA STRATEGIC PARTNERSHIP IN AMI & SMART METERING MODERNIZATION

OPTIMIZING POWER LOSS REDUCTION, ACCURATE BILLING, AND DIGITAL UTILITY OPERATIONS



ever®

EVER METER FACTORY

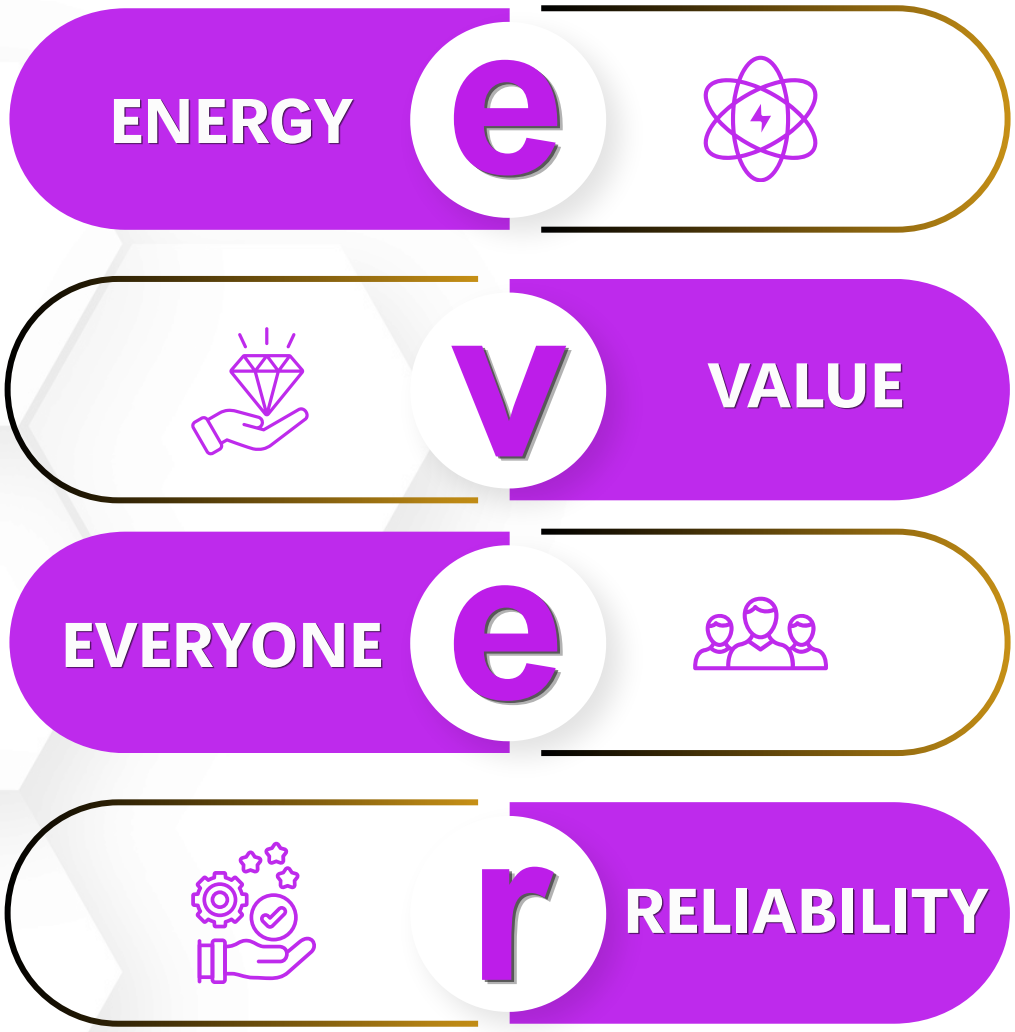




INTRODUCTION & BACKGROUND

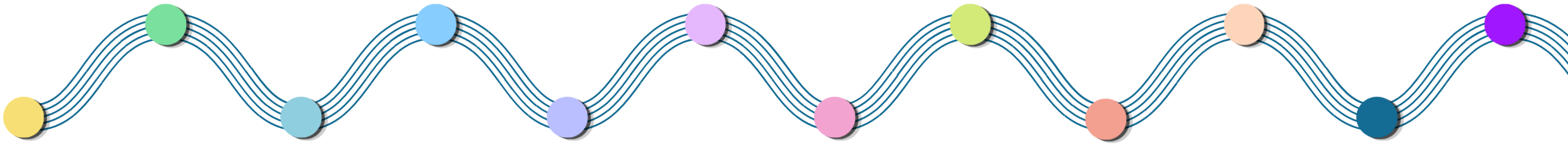
THE BRAND NAME 'EVER' SIGNIFIES

ever®



EVER METER COMPANY LIMITED

MILESTONES OF SUCCESSFUL IMPLEMENTATION, SPANNING FROM ANALOG METERS TO DIGITAL SMART METERS AND AMI SYSTEMS, BACKED BY OVER 23 YEARS OF LOCAL METER MANUFACTURING EXPERIENCE IN MYANMAR.



2003-2004

In collaboration with the Ministry of Industry (2), Analog meters under the 'Ka.Sa.La' brand were produced.

- 1P2W: 10(30)A
- 3P4W: 10(30)A, 20(60)A, 30(80)A, 50(100)A, 100(150)A
- 3P4W: 5A CT

2007

Successfully manufactured trial Prepaid Card meters and commenced internal software development.

2008

Produced 'EVER' brand Analog meters at Inntakaw Industrial Complex, in partnership with Myanma Economic Holdings Public Co., Ltd.

- 1P2W: 10(30)A
- 3P4W: 10(30)A, 20(60)A, 30(80)A, 50(100)A, 100(150)A
- 3P4W: 5A CT

2009

We allocated significant financial resources toward research and development to produce Digital meters optimized for local conditions in Myanmar.

2010

Successfully produced 'EVER' brand Digital meters integrated with OMR, AMR, and AMI system reading capabilities

- 1P2W: 10(30)A
- 3P4W: 10(30)A, 20(60)A, 30(80)A
- 3P4W: 5A CT, Integrated CT

2012

In support of the Digital Government transition, we developed an Automatic Billing System aligned with the Ministry's official utility billing formats and successfully executed a pilot project in Pyay and Shwedaung.

2016

We developed advanced software to enable a Hybrid AMI system for OMR and AMR meters, and successfully completed the research and development required for AMI Smart meter manufacturing

2017

We successfully implemented the Hybrid AMI system for Myanmar's first AMI Pilot Project using the OMR Digital meters previously installed in Dawbon Township in 2012. This upgrade was achieved entirely at our factory's cost without altering any internal components of the existing meters.

2018

Continued the manufacturing of 'EVER' brand Smart Meters equipped with AMI system capabilities.

- 1P2W: 10(60)A,
- 3P4W: 10(30)A, 10(60)A, 10(80)A
- 3P4W: 5(6)A CT
- 3P3W: 110V HT

We deployed Smart Meters to successfully execute the nation's second technically comprehensive AMI Pilot Project in Pabedan Township, fully funded by our factory.

2020

For the third AMI Pilot Project, we successfully executed the Hybrid AMI system using OMR Digital meters originally installed in South Okkalapa Township in 2012. This upgrade was fully funded by our factory without altering any internal components of the existing meters.

2021-2026

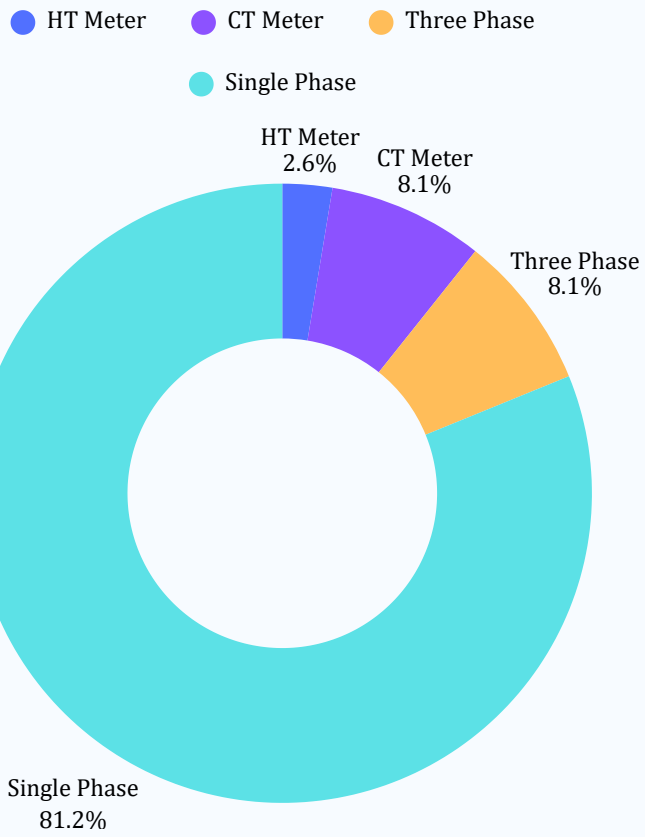
Our company constructed Data Server at the Ministry of Electricity and Energy (MOEE) along with Control & Monitoring Centers at ESE, YESC, and MESC headquarters. To date, we have executed Hybrid AMI in 16 townships, AMI systems in 14 townships, and Automatic Billing systems in 55 townships nationwide. This initiative has effectively minimized power losses, supported the implementation of Digital Government infrastructure, and brought significant value to both the Ministry and the government while improving public service quality.

We produced over 2 million Analog meters between 2003 and 2009, followed by the manufacturing of over 4 million OMR and AMI Smart meters from 2010 to 2026.

CAPABILITY & STANDARDS

MANUFACTURING CAPACITY OF EVER METER FACTORY

Types of Meters	1 Day	1 Month	1 Year
HT Meter	300	7,200	80,000
CT Meter	1,000	24,000	250,000
Three Phase	1,000	24,000	250,000
Single Phase	10,000	240,000	2,500,000













MILESTONES OF DOMESTIC TECHNOLOGICAL RESEARCH & INNOVATION

2025 — **Meter reading systems Successfully Implemented**

Successfully deployed an end-to-end monitoring and maintenance system spanning from substation meters down to residential meters.

2021 — **Control and Monitoring System**

Successfully delivered centralized meter reading and control capabilities across diverse meter types, complemented by real-time monitoring for township revenue collection management.

2017 — **Advanced Metering Infrastructure (AMI)**

Successfully deployed an all-in-one AMI system covering Metering, Automatic Billing, Load Monitoring, Consumer Management, and Online Payment services.

2012 — **Automatic Billing System (ABS)**

We implemented an Automatic Billing System capable of processing up to monthly Electrical Form (250) in compliance with the Ministry's mandated specifications, thereby supporting the Digital Government initiative.

2010 — **OMR Meter Reading System**

Successfully developed and executed a Hand-Held Unit (HHU)-based remote meter reading system.

EVER meters are dedicated to substantially supporting and advancing Digital Government initiatives

RESEARCH & DEVELOPMENT (R&D)

NATIONAL DEVELOPMENT CAN ONLY BE ACHIEVED THROUGH HUMAN RESOURCES AND TECHNOLOGY.











Through a long-term investment of over USD 9 million in Research and Development, we have successfully developed and implemented an AMI system tailored to Myanmar.

ISO 9001 : 2015
MANUFACTURING AND REPAIRING OF
ADVANCED METERING INFRASTRUCTURE (AMI) SYSTEM USAGE ELECTRIC METERS





ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT ◆ شهادة

CERTIFICATE

QACS INTERNATIONAL

EVER METER COMPANY LIMITED

OFFICE ADDRESS: NO. (115), INDEPENDENCE STREET, QUARTER (C),
THINGANGYUN TOWNSHIP, YANGON REGION, MYANMAR
WORK ADDRESS: INNTAKAW INDUSTRIAL COMPLEX, INNTAKAW TOWNSHIP,
BAGO REGION, MYANMAR

QACS certify that the quality management system of the above organization has been audited and found to be in accordance with the requirements of standard detailed below

ISO 9001:2015

For The Following Scope

MANUFACTURING AND REPAIRING OF ADVANCED METERING
INFRASTRUCTURE (AMI) SYSTEM USAGE ELECTRIC METERS

Certificate No. : QAIS-Q-MYA-EM-05.24.061

Ea Code: 19

*This certificate is issued in accordance with the QACS International Pvt. Ltd. auditing and Certification procedures and it is remain valid subject to annual surveillance audit.

Certificate Issue Date	: 27.07.2024	1st Surveillance Date	: 26.07.2025
Date of Initial Registration	: 27.07.2024	2nd Surveillance Date	: 26.07.2026
Certificate Validity	: 03 Years	*Certificate Expiry Date	: 26.07.2027

Note: Certificate shall be valid after surveillance, only if continuation letter by QACS is present.

QACS International Pvt. Ltd.
103 Labbaik Regency, 4/2 Old Palasia,
Indore(M.P.)-452001, India
Email: info@qacsworld.com
To check the certificate validity please refer
Web: **www.qacsworld.com**
& **www.iafcertsearch.org**

QACS Accredited By:
International Accreditation Service (IAS)
3060 Saturn Street Suite 100 Brea,
California 92821-1732, USA
United States Of America (USA)
Web:**www.iasonline.org**

Authorized Signatory

*To check the current validity of the certificate, kindly scan the QR code and follow the link.

Disclaimer :- This certificate is issued on the basis of random onsite inspection w.r.t. System/Product Certification of organisation as per the standard mentioned. This Certification do not involve any financial auditing. This certificate cannot be used as justification for running any type of deposit schemes. QACS will not be responsible if someone give deposit/advance based on this System/Product certification mistreating at as international financial audit.

INTERNATIONAL TYPE TEST CERTIFICATE
KOREA TESTING CERTIFICATION (KTC) KOREA



Test Report

Report No. : KT2017-00494

Company : EVER METER CO.,LTD.
Representative : Mr. MYO AUNG
Address : MYAWAA ECONOMIC HOLDINGS LIMITED INDUSTRIAL COMPLEX, INNTAWAY TSP, BAGO REGION, MYANMAR

1. Product Name : Static meter
- Type and Model : 1P2W, 230 V, 5(30) A, 50 Hz, 2 000 pulse/kWh, CL : 1.0, DSW-2B, Outdoor meter

2. Use of Report : Submit to ESE/YESC/MESC
3. Date of Receipt : 2017. 10. 26.
4. Date of Test : 2017. 10. 26. - 2017. 11. 08.
5. Testing Method : IEC 62052-11:2003,IEC 62053-21:2003
6. Environment : Temperature : (23 ± 2) ℃, Humidity : (50 ± 20) %R.H.
7. Test Results : as stated in the annexed paper "Test Result"

Tested by : Um Ji Hyun 엄 계 현 Approved by : Kim Seung-jin

1. This report is based on the test and analysis performed with the sample(s) submitted by the client. Therefore, the report does not guarantee the quality of entire products.
2. This report should not be used for advertising, lawsuit, etc. without any official permission of KTC. It is only used for the purpose of the quality test.
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4. This report is the English version of No. KT2017-00494.

2017. 11. 15.

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Test Report

Report No. : KT2017-00493

Company : EVER METER CO.,LTD.
Representative : Mr. MYO AUNG
Address : MYAWAA ECONOMIC HOLDINGS LIMITED INDUSTRIAL COMPLEX, INNTAWAY TSP, BAGO REGION, MYANMAR

1. Product Name : Static meter
- Type and Model : 1P2W, 230 V, 5(30) A, 50 Hz, 2 000 pulse/kWh, CL : 1.0, DSW-1B, Outdoor meter

2. Use of Report : Submit to ESE/YESC/MESC
3. Date of Receipt : 2017. 10. 26.
4. Date of Test : 2017. 10. 26. - 2017. 11. 08.
5. Testing Method : IEC 62052-11:2003, IEC 62053-21:2003
6. Environment : Temperature : (23 ± 2) ℃, Humidity : (50 ± 20) %R.H.
7. Test Results : as stated in the annexed paper "Test Result"

Tested by : Um Ji Hyun 엄 계 현 Approved by : Kim Seung-jin

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Test Report

Report No. : KT2017-00495

Company : EVER METER CO.,LTD.
Representative : Mr. MYO AUNG
Address : MYAWAA ECONOMIC HOLDINGS LIMITED INDUSTRIAL COMPLEX, INNTAWAY TSP, BAGO REGION, MYANMAR

1. Product Name : Static meter
- Type and Model : 1P2W, 230 V, 10(60) A, 50 Hz, 2 000 pulse/kWh, CL : 1.0, DSW-3B, Outdoor meter

2. Use of Report : Submit to ESE/YESC/MESC
3. Date of Receipt : 2017. 10. 26.
4. Date of Test : 2017. 10. 26. - 2017. 11. 08.
5. Testing Method : IEC 62052-11:2003, IEC 62053-21:2003
6. Environment : Temperature : (23 ± 2) ℃, Humidity : (50 ± 20) %R.H.
7. Test Results : as stated in the annexed paper "Test Result"

Tested by : Um Ji Hyun 엄 계 현 Approved by : Kim Seung-jin

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Test Report

Report No. : KT2017-00172

Company : EVER METER CO.,LTD.
Representative : Mr. MYO AUNG
Address : MYAWAA ECONOMIC HOLDINGS LIMITED INDUSTRIAL COMPLEX, INNTAWAY TSP,BAGO REGION, MYANMAR

1. Product Name : Static meter
- Type and Model : 1P2W, 230 V, 10(30) A, 50 Hz, 2 000 pulse/kWh, CL : 1.0, DSW-4B, Outdoor meter

2. Use of Report : Submit to ESE/YESC/MESC
3. Date of Receipt : 2017. 04. 26.
4. Date of Test : 2017. 04. 26. - 2017. 12. 01.
5. Testing Method : IEC 62052-11:2003, IEC 62053-21:2003
6. Environment : Temperature : (23 ± 2) ℃, Humidity : (50 ± 20) %R.H.
7. Test Results : as stated in the annexed paper "Test Result"

Tested by : Um Ji Hyun 엄 계 현 Approved by : Kim Seung-jin

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2017. 12. 01.

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Test Report

Report No. : KT2017-00549

Company : EVER METER CO.,LTD
Representative : Mr. MYO AUNG
Address : MYAWAA ECONOMIC HOLDINGS LIMITED INDUSTRIAL COMPLEX, INNTAWAY TSP, BAGO REGION, MYANMAR

1. Product Name : Static meter
- Type and Model : 3P4W, 230/400 V, 10(30) A, 50Hz, 1 000 pulse/kWh, CL : 1.0, DTW-1B, Outdoor meter

2. Use of Report : Submit to ESE/YESC/MESC
3. Date of Receipt : 2017. 11. 09.
4. Date of Test : 2017. 11. 09. - 2017. 11. 23.
5. Testing Method : IEC 62052-11:2003, IEC 62053-21:2003
6. Environment : Temperature : (23 ± 2) ℃, Humidity : (50 ± 20) %R.H.
7. Test Results : as stated in the annexed paper "Test Result"

Tested by : Um Ji Hyun 엄 계 현 Approved by : Kim Seung-jin

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2017. 11. 23.

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Test Report

Report No. : KT2017-00548

Company : EVER METER CO.,LTD
Representative : Mr. MYO AUNG
Address : MYAWAA ECONOMIC HOLDINGS LIMITED INDUSTRIAL COMPLEX, INNTAWAY TSP, BAGO REGION, MYANMAR

1. Product Name : Static meter
- Type and Model : 3P4W, 230/400 V, 20(60) A, 50 Hz, 1 000 pulse/kWh, CL : 1.0, DTW-2B, Outdoor meter

2. Use of Report : Submit to ESE/YESC/MESC
3. Date of Receipt : 2017. 11. 09.
4. Date of Test : 2017. 11. 09. - 2017. 11. 23.
5. Testing Method : IEC 62052-11:2003, IEC 62053-21:2003
6. Environment : Temperature : (23 ± 2) ℃, Humidity : (50 ± 20) %R.H.
7. Test Results : as stated in the annexed paper "Test Result"

Tested by : Um Ji Hyun 엄 계 현 Approved by : Kim Seung-jin

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2017. 11. 23.

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Test Report

Report No. : KT2017-00171

Company : EVER METER CO.,LTD.
Representative : Mr. MYO AUNG
Address : MYAWAA ECONOMIC HOLDINGS LIMITED INDUSTRIAL COMPLEX, INNTAWAY TSP, BAGO REGION, MYANMAR

1. Product Name : Static meter
- Type and Model : 3P4W, 230/400 V, 30(80) A, 50 Hz, 1 000 pulse/kWh, CL : 1.0, DTW-3B, Outdoor meter

2. Use of Report : Submit to ESE/YESC/MESC
3. Date of Receipt : 2017. 04. 26.
4. Date of Test : 2017. 04. 26. - 2017. 11. 23.
5. Testing Method : IEC 62052-11:2003, IEC 62053-21:2003, IEC 62053-23:2003
6. Environment : Temperature : (23 ± 2) ℃, Humidity : (50 ± 20) %R.H.
7. Test Results : as stated in the annexed paper "Test Result"

Tested by : Um Ji Hyun 엄 계 현 Approved by : Kim Seung-jin

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2017. 11. 23.

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Test Report

Report No. : KT2017-00496

Company : EVER METER CO.,LTD.
Representative : Mr. MYO AUNG
Address : MYAWAA ECONOMIC HOLDINGS LIMITED INDUSTRIAL COMPLEX, INNTAWAY TSP, BAGO REGION, MYANMAR

1. Product Name : Static meter
- Type and Model : 3P4W, 230/400 V, 10(80) A, 50 Hz, 1 000 pulse/kWh, CL : 1.0, DTW-4B, Outdoor meter

2. Use of Report : Submit to ESE/YESC/MESC
3. Date of Receipt : 2017. 10. 26.
4. Date of Test : 2017. 10. 26. - 2017. 11. 08.
5. Testing Method : IEC 62052-11:2003, IEC 62053-21:2003
6. Environment : Temperature : (23 ± 2) ℃, Humidity : (50 ± 20) %R.H.
7. Test Results : as stated in the annexed paper "Test Result"

Tested by : Um Ji Hyun 엄 계 현 Approved by : Kim Seung-jin

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2017. 11. 15.

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Test Report

Report No. : KT2017-00173

Company : EVER METER CO.,LTD.
Representative : Mr. MYO AUNG
Address : MYAWAA ECONOMIC HOLDINGS LIMITED INDUSTRIAL COMPLEX, INNTAWAY TSP, BAGO REGION, MYANMAR

1. Product Name : Static meter
- Type and Model : 3P4W, 230/400 V, 5(6) A, 50 Hz, 1 000 pulse/kWh, 1 000 pulse/kvarh, CL : 0.5, DCTW-1B, Outdoor meter

2. Use of Report : Submit to ESE/YESC/MESC
3. Date of Receipt : 2017. 04. 26.
4. Date of Test : 2017. 04. 26. - 2017. 11. 07.
5. Testing Method : IEC 62052-11:2003, IEC 62053-22:2003, IEC62053-23:2003
6. Environment : Temperature : (23 ± 2) ℃, Humidity : (50 ± 20) %R.H.
7. Test Results : as stated in the annexed paper "Test Result"

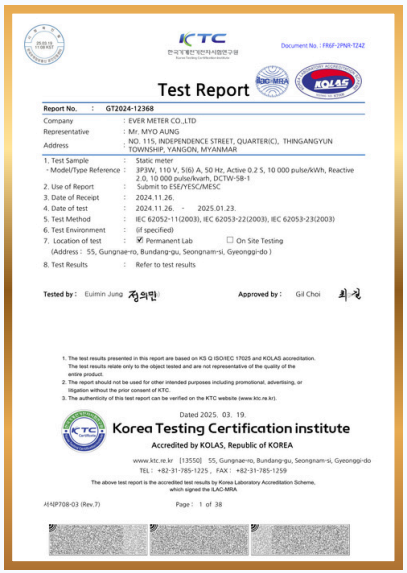
Tested by : Um Ji Hyun 엄 계 현 Approved by : Kim Seung-jin

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KTC 한국기계전기전자시험연구원

Document No. : FR6F-2PNR-TZAZ

Test Report

Report No. : GT2024-12368

Company : EVER METER CO.,LTD
Representative : Mr. MYO AUNG
Address : NO. 115, INDEPENDENCE STREET, QUARTER(C), THINGANGYUN TOWNSHIP, YANGON, MYANMAR

1. Test Sample : Static meter
- Model/Type Reference : 3P3W, 110 V, 5(6) A, 50 Hz, Active 0.2 S, 10 000 pulse/kWh, Reactive 2.0, 10 000 pulse/kvarh, DCTW-5B-1
2. Use of Report : Submit to ESE/YESC/MESC
3. Date of Receipt : 2024.11.26.
4. Date of test : 2024.11.26. - 2025.01.23.
5. Test Method : IEC 62052-11(2003), IEC 62053-22(2003), IEC 62053-23(2003)
6. Test Environment : (if specified)
7. Location of test : ☑ Permanent Lab ☐ On Site Testing
(Address : 55, Gungnae-ro, Bundang-gu, Seongnam-si, Gyeonggi-do)
8. Test Results : Refer to test results

Tested by : Euimin Jung 정의민 Approved by : Gil Choi 최 길

1. The test results presented in this report are based on KS Q ISO/IEC 17025 and KOLAS accreditation. The test results relate only to the object tested and are not representative of the quality of the entire product.
2. The report should not be used for other intended purposes including promotional, advertising, or litigation without the prior consent of KTC.
3. The authenticity of this test report can be verified on the KTC website (www.ktc.re.kr).

Dated 2025. 03. 19.

Korea Testing Certification institute
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The above test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

AMP708-03 (Rev.7) Page : 1 of 38

DLMS CERTIFICATE OF MEMBERSHIP (SWITZERLAND)

CERTIFICATE OF MEMBERSHIP

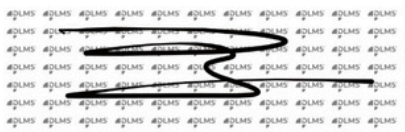
DLMS®

This is to certify that

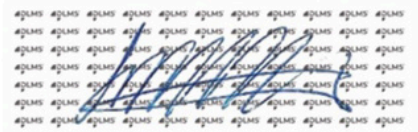
Ever Meter Co., Ltd.

has been granted Adopter Membership
in the DLMS User Association for the year 2026

Zug, June 4th, 2026



Toufann Chaudhuri,
Executive Director



Sergio Lazzarotto
President

DEVICE LANGUAGE MESSAGE SPECIFICATION (DLMS) SWITZERLAND

DLMS User Association

Bahnhofstrasse 28
CH-6302 Zug
Switzerland

Tel. +36 28 514 065
Fax +36 28 514 066
dlms@dlms.com

Certification No. 2163

This is to certify that the metering equipment identified as:
Type: DSW-2A Active firmware(s): Id=101RRS00
Mgmt. SAP = 1 is "4C494E313241313930383036412032323" (LIN12A190806A 22)
Manufactured by: EVER METER COMPANY LIMITED

has successfully passed the DLMS/COSEM Conformance test, under the following conditions:

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: 20181109_Ever_Meter_Co_Ltd_Bago (2018-11-09)
- COSEM object definitions file version: Object_defs_v3.3_released_180601.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1	HDLC, MODE_E	LONG_NAMES	--	08-AUG-2019 17:27:58	E8461452D24C94DAC1BD199015602E1D 9085D701A85EF7F1D5473A585D7F7EB

The authenticity of the test report(s) has been verified by the DLMS User Association and the metering equipment identified above is listed on its web site at: www.dlms.com.
With this, the manufacturer is entitled to display the DLMS/COSEM Compliant mark – shown below – on its product duly identified and on its product literature.

The test reports are filed by the DLMS UA. Copies are available from the manufacturer.
This Certificate is only valid for the functions successfully tested; see the Summary. The test has been executed on one specimen of the product, as identified by the Management Logical Device Name reported. Results may not be applicable for other test specimens.

Date: Zug, the 11th August 2019

Gyözö Kmethy
President

Viktória Varjú Tímárné
Certification Engineer

The DLMS UA is a not for profit Association in conformance with Art. 60ff of the Swiss Civil Code.
Commercial registration number CHE-440.972.101

DLMS User Association

Bahnhofstrasse 28
CH-6302 Zug
Switzerland

Tel. +36 28 514 065
dlms@dlms.com

Certification No. 2164

This is to certify that the metering equipment identified as:
Type: DSW-3A Active firmware(s): Id=101RRS00
Mgmt. SAP = 1 is "4C494E313341313930383037412032323" (LIN13A190807A 22)
Manufactured by: EVER METER COMPANY LIMITED

has successfully passed the DLMS/COSEM Conformance test, under the following conditions:

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: 20181109_Ever_Meter_Co_Ltd_Bago (2018-11-09)
- COSEM object definitions file version: Object_defs_v3.3_released_180601.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1	HDLC, MODE_E	LONG_NAMES	--	06-AUG-2019 17:52:04	D9856F9F3DA3A51B3FD1FE2C094431B B4D5AB60C1df39487428E56DD951CD

The authenticity of the test report(s) has been verified by the DLMS User Association and the metering equipment identified above is listed on its web site at: www.dlms.com.
With this, the manufacturer is entitled to display the DLMS/COSEM Compliant mark – shown below – on its product duly identified and on its product literature.

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This Certificate is only valid for the functions successfully tested; see the Summary. The test has been executed on one specimen of the product, as identified by the Management Logical Device Name reported. Results may not be applicable for other test specimens.

Date: Zug, the 11th August 2019

Gyözö Kmethy
President

Viktória Varjú Tímárné
Certification Engineer

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DLMS User Association

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CH-6302 Zug
Switzerland

Tel. +36 28 514 065
Fax +36 28 514 066
dlms@dlms.com

Certification No. 2009

This is to certify that the metering equipment identified as:

Type: DSW-3B

Mgmt. Logical Device Name: SAP = 1 is "4C494E203138303832304120202032323" (LIN 180820A 22)

Manufactured by: EVER METER COMPANY LIMITED.

has successfully passed the DLMS/COSEM Conformance test, under the following conditions:

- CTT version: CTT 3.1 standard edition, 64bits, release 106
- Licensed to: 20160924_Korea_Testing_Certification_KOR (2016-09-24)
- COSEM object definitions file version: Object_defs_v3.3_released_180601.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1	HDLC, MODE_E	LONG_NAMES	--	06-SEP-2018 15:58:02	7889446181BA13E55A569DBE9A 6F43ADBBDC64F2D49FB55F56 AE72678572D3FD21

The authenticity of the test report(s) has been verified by the DLMS User Association and the metering equipment identified above is listed on its web site at: www.dlms.com.
With this, the manufacturer is entitled to display the DLMS/COSEM Compliant mark – shown below – on its product duly identified and on its product literature.

The test reports are filed by the DLMS UA. Copies are available from the manufacturer.
This Certificate is only valid for the functions successfully tested; see the Summary. The test has been executed on one specimen of the product, as identified by the Management Logical Device Name reported. Results may not be applicable for other test specimens.

Date: Zug, the 6th September 2018

Győző Kmethy
President

DLMS User Association

Bahnhofstrasse 28
CH-6302 Zug
Switzerland

Tel. +36 28 514 065
Fax +36 28 514 066
dlms@dlms.com

Certification No. 2008

This is to certify that the metering equipment identified as:

Type: DSW-2B

Mgmt. Logical Device Name: SAP = 1 is "4C494E203138303832304120202032323" (LIN 180820A 22)

Manufactured by: EVER METER COMPANY LIMITED.

has successfully passed the DLMS/COSEM Conformance test, under the following conditions:

- CTT version: CTT 3.1 standard edition, 64bits, release 106
- Licensed to: 20160924_Korea_Testing_Certification_KOR (2016-09-24)
- COSEM object definitions file version: Object_defs_v3.3_released_180601.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1	HDLC, MODE_E	LONG_NAMES	--	05-SEP-2018 15:46:21	C4236183F2218406B0E0F4877AF D1B0D946C35232CBF9B2F282D DE09CE9E0D

The authenticity of the test report(s) has been verified by the DLMS User Association and the metering equipment identified above is listed on its web site at: www.dlms.com.
With this, the manufacturer is entitled to display the DLMS/COSEM Compliant mark – shown below – on its product duly identified and on its product literature.

The test reports are filed by the DLMS UA. Copies are available from the manufacturer.
This Certificate is only valid for the functions successfully tested; see the Summary. The test has been executed on one specimen of the product, as identified by the Management Logical Device Name reported. Results may not be applicable for other test specimens.

Date: Zug, the 6th September 2018

Győző Kmethy
President

DLMS User Association

Bahnhofstrasse 28
CH-6302 Zug
Switzerland

Tel. +36 28 514 065
dlms@dlms.com

Certification No. 2114

This is to certify that the metering equipment identified as:
Type: DTW-1B Active firmware(s): Id=101RRS00
Mgmt. SAP = 1 is "4C494E333142313930353135412032323" (LIN31B190515A 22)
Manufactured by: EVER METER COMPANY LIMITED

has successfully passed the DLMS/COSEM Conformance test, under the following conditions:

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: 20181109_Ever_Meter_Co_Ltd_Bago (2018-11-09)
- COSEM object definitions file version: Object_defs_v3.3_released_180601.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1	HDLC, MODE_E	LONG_NAMES	--	22-MAY-2019 09:42:33	43D7053963CCEB222085A51C1B0D3951 4E6ED68DB84AA2994C1678137A7ED

The authenticity of the test report(s) has been verified by the DLMS User Association and the metering equipment identified above is listed on its web site at: www.dlms.com.
With this, the manufacturer is entitled to display the DLMS/COSEM Compliant mark – shown below – on its product duly identified and on its product literature.

The test reports are filed by the DLMS UA. Copies are available from the manufacturer.
This Certificate is only valid for the functions successfully tested; see the Summary. The test has been executed on one specimen of the product, as identified by the Management Logical Device Name reported. Results may not be applicable for other test specimens.

Date: Zug, the 22nd May 2019

Gyözö Kmethy
President

Viktória Varjú Tímárné
Certification Engineer

The DLMS UA is a not for profit Association in conformance with Art. 60ff of the Swiss Civil Code.
Commercial registration number CHE-440.972.101

DLMS User Association

Bahnhofstrasse 28
CH-6302 Zug
Switzerland

Tel. +36 28 514 065
dlms@dlms.com

Certification No. 2161

This is to certify that the metering equipment identified as:
Type: DSW-4B Active firmware(s): Id=101RRS00
Mgmt. SAP = 1 is "4C494E313432313930373232412032323" (LIN14B190722A 22)
Manufactured by: EVER METER COMPANY LIMITED

has successfully passed the DLMS/COSEM Conformance test, under the following conditions:

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: 20181109_Ever_Meter_Co_Ltd_Bago (2018-11-09)
- COSEM object definitions file version: Object_defs_v3.3_released_180601.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1	HDLC, MODE_E	LONG_NAMES	--	23-JUL-2019 10:58:54	9723A84124D2336902B9419551419402397 7E7185575D3A4944985D865B8EA

The authenticity of the test report(s) has been verified by the DLMS User Association and the metering equipment identified above is listed on its web site at: www.dlms.com.
With this, the manufacturer is entitled to display the DLMS/COSEM Compliant mark – shown below – on its product duly identified and on its product literature.

The test reports are filed by the DLMS UA. Copies are available from the manufacturer.
This Certificate is only valid for the functions successfully tested; see the Summary. The test has been executed on one specimen of the product, as identified by the Management Logical Device Name reported. Results may not be applicable for other test specimens.

Date: Zug, the 2nd August 2019

Gyözö Kmethy
President

Viktória Varjú Tímárné
Certification Engineer

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Commercial registration number CHE-440.972.101

DLMS User Association

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CH-6302 Zug
Switzerland

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dlms@dlms.com

Certification No. 2115

This is to certify that the metering equipment identified as:
Type: DTW-2B Active firmware(s): Id=101RRS00
Mgmt. SAP = 1 is "4C494E333242313930353135412032323" (LIN32B190515A 22)
Manufactured by: EVER METER COMPANY LIMITED

has successfully passed the DLMS/COSEM Conformance test, under the following conditions:

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: 20181109_Ever_Meter_Co_Ltd_Bago (2018-11-09)
- COSEM object definitions file version: Object_defs_v3.3_released_180601.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1	HDLC, MODE_E	LONG_NAMES	--	22-MAY-2019 10:11:53	8FBB93FA87ABCBD4DC10BDCA7031669 8D03E02C3E6264661967D5B4C4A39

The authenticity of the test report(s) has been verified by the DLMS User Association and the metering equipment identified above is listed on its web site at: www.dlms.com.
With this, the manufacturer is entitled to display the DLMS/COSEM Compliant mark – shown below – on its product duly identified and on its product literature.

The test reports are filed by the DLMS UA. Copies are available from the manufacturer.
This Certificate is only valid for the functions successfully tested; see the Summary. The test has been executed on one specimen of the product, as identified by the Management Logical Device Name reported. Results may not be applicable for other test specimens.

Date: Zug, the 23rd May 2019

Gyözö Kmethy
President

Viktória Varjú Tímárné
Certification Engineer

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Commercial registration number CHE-440.972.101

DLMS User Association

Bahnhofstrasse 28
CH-6302 Zug
Switzerland

Tel. +36 28 514 065
dlms@dlms.com

Certification No. 2311

This is to certify that the metering equipment identified as:

Type: DTW-4B Active firmware(s): Id=101RRS00
Mgmt. SAP = 1 is "4C494E333442323830313331343203232" (LIN34B20313A 22)
Manufactured by: EVER METER COMPANY LIMITED.

has successfully passed the DLMS/COSEM Conformance test, under the following conditions:

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: 20181109_Ever_Meter_Co_Ltd_Bago (2018-11-09)
- COSEM object definitions file version: Object_defs_v3.3_released_180601.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1	HDLC, DIRECT_HLC	LONG_NAMES	(not collected)	18-MAR-2020 09:47:42	644E2E1E6462398CC8DC174AB4E5DEC 92EA3F329903E8A5C82F1497B6A10480

The authenticity of the test report(s) has been verified by the DLMS User Association and the metering equipment identified above is listed on its web site at: www.dlms.com.
With this, the manufacturer is entitled to display the DLMS/COSEM Compliant mark – shown below – on its product duly identified and on its product literature.

The test reports are filed by the DLMS UA. Copies are available from the manufacturer.
This Certificate is only valid for the functions successfully tested; see the Summary. The test has been executed on one specimen of the product, as identified by the Management Logical Device Name reported. Results may not be applicable for other test specimens.

Date: Zug, the 18th March 2020

Sergio Lazzarotto
Executive Director and President

Gyözö Kmethy
President Emeritus

Viktória Varjú
Certification Engineer

The DLMS UA is a not for profit Association in conformance with Art. 60ff of the Swiss Civil Code.
Commercial registration number CHE-440.972.101

DLMS User Association

Bahnhofstrasse 28
CH-6302 Zug
Switzerland

Tel. +36 28 514 065
dlms@dlms.com

Certification No. 2113

This is to certify that the metering equipment identified as:
Type: DCTW-1B Active firmware(s): Id=101RRS00
Mgmt. SAP = 1 is "4C494E333431423139303531353413232" (LIN3C1B190515A22)
Manufactured by: EVER METER COMPANY LIMITED

has successfully passed the DLMS/COSEM Conformance test, under the following conditions:

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: 20181109_Ever_Meter_Co_Ltd_Bago (2018-11-09)
- COSEM object definitions file version: Object_defs_v3.3_released_180601.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1	HDLC, MODE_E	LONG_NAMES	--	22-MAY-2019 11:12:00	BAC471B83CB09012FA8737AA2DD226F8D 07CD6DB0959455ADC1C650B6B1246901

The authenticity of the test report(s) has been verified by the DLMS User Association and the metering equipment identified above is listed on its web site at: www.dlms.com.
With this, the manufacturer is entitled to display the DLMS/COSEM Compliant mark – shown below – on its product duly identified and on its product literature.

The test reports are filed by the DLMS UA. Copies are available from the manufacturer.
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Date: Zug, the 22nd May 2019

Gyözö Kmethy
President

Viktória Varjú Tímárné
Certification Engineer

The DLMS UA is a not for profit Association in conformance with Art. 60ff of the Swiss Civil Code.
Commercial registration number CHE-440.972.101

Certificate of Compliance

Certificate N°: 2966
Applicant: Ever Meter Co., Ltd.
No.115,Independence Street,
Quarter(C),
Thingangyun Township
6902-Yangon
Myanmar

Issue date: February 16th, 2024
Issued to: Ever Meter Co., Ltd
No.115,Independence Street,
Quarter(C),
Thingangyun Township
6902-Yangon
Myanmar

The certified product listed below is eligible to bear the DLMS UA Mark shown

PRODUCT

Model: DCTW-5B
Type: Smart meter
Manufacturer: Ever Meter Co., Ltd.
S/N°: 7700001

Anthony FIELD
Chairman

Sergio LAZZAROTTO
President and Executive Director

This Certificate of **Compliance** is based on an evaluation of a test report based on a single test executed on one specimen of the product, as identified by the **Product** data above. This Certificate is issued on the condition that the holder complies and will continue to comply with the licensing requirement and procedures issued by **DLMS UA**.
The authenticity of the test report has been verified by the **DLMS User Association** and the equipment identified above is listed on its web site at: www.dlms.com.

TECHNICAL ARCHITECTURE & FEATURES

EVER METER AMI CONTROL & MONITORING CENTERS



YANGON





MANDALAY



FACTORY





NAYPYITAW

Electric Smart Meter of Off-Site Meter Reading System



Transformer and Pole Numbering

Before transitioning to the AMI system, the OMR system involves a meticulous process of assigning unique identification to transformers and poles. The integration of this information with customer IDs ensures a structured and organized approach to utility management.

Customer Data Collection

In the OMR system, consumer data, including names and meter numbers, is systematically recorded. This forms the foundation for accurate billing and facilitates the smooth transition to a more advanced AMI system.

GPS Registration Using HHU

The OMR system incorporates GPS registration using Handheld Units (HHU) at every single pole area. This ensures precise location tracking, aiding in efficient maintenance and troubleshooting. The gathered GPS data is uploaded to OMR PC software for reference.

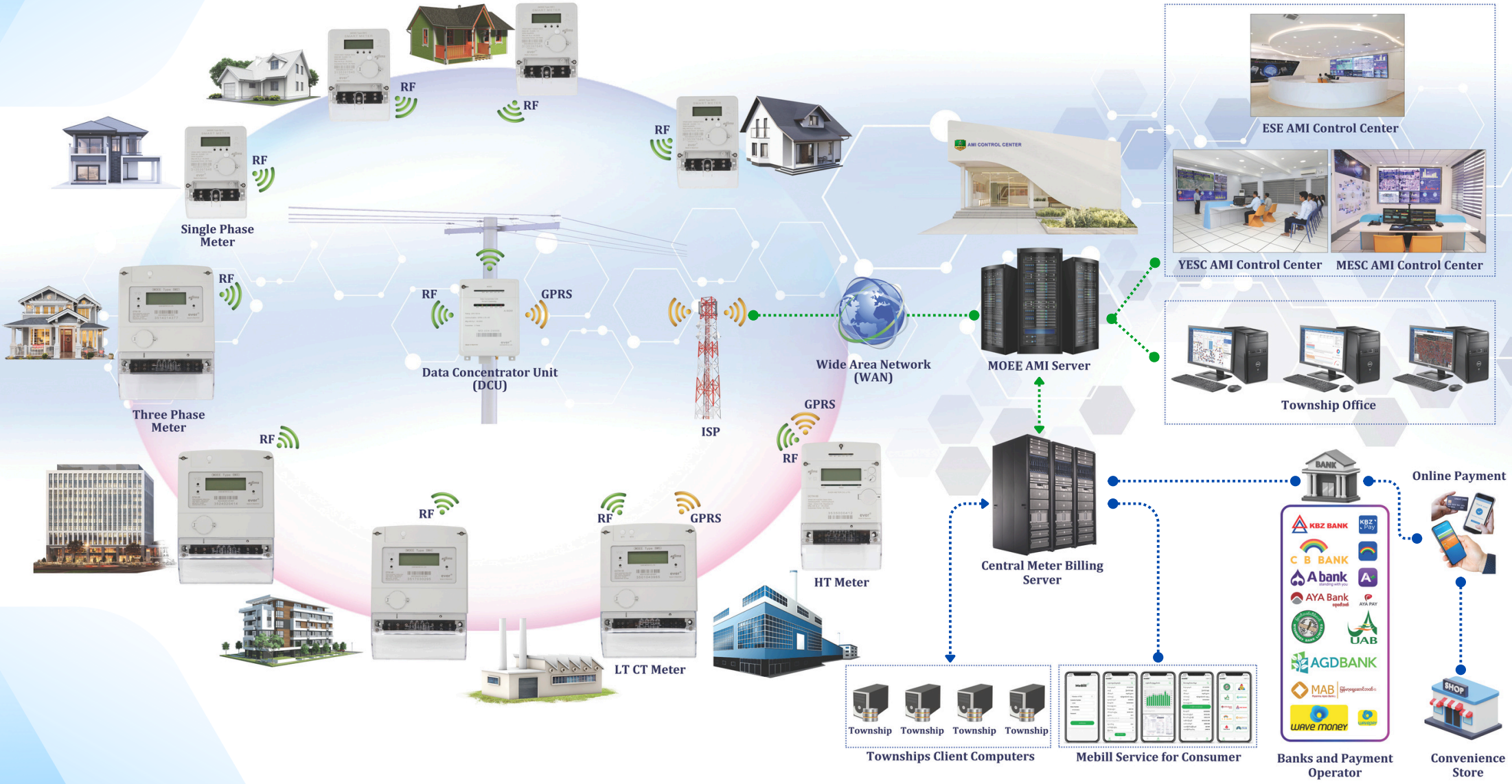
Monthly Meter Data Reading & Bill Distribution

The OMR system involves a monthly routine of reading meter data using HHU. The data collected and bill distribution during this phase sets the baseline for transitioning to an automated AMI system.

RF Communication

OMR system typically relies RF 435MHz (Radio Frequency) communication system for data transmission. This technology facilitates communication between field devices, meters, and the central system, laying the groundwork for more sophisticated communication protocols in the AMI system.

ADVANCED METERING INFRASTRUCTURE (AMI) SYSTEM

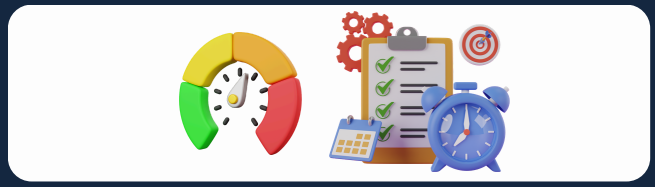


Advantages of Smart Meters over Conventional electric Smart Meter



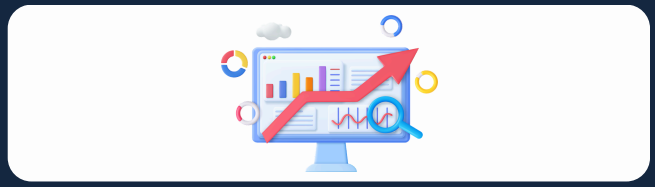
Accurate Billing

Smart meters eliminate the need for estimated bills, ensuring accurate and transparent billing based on actual usage.



Near Real-time Data

Smart meters provide customers with near real-time data on energy consumption, enabling informed decisions for efficient usage.



Dynamic Pricing

They enable dynamic pricing, allowing flexible electricity tariffs that incentivize cost-effective energy use and reduce demand during peak hours.



Improved Energy Management

Smart meters assist utilities in better managing energy supply, reducing power outages, and integrating renewable energy sources more effectively.



Tampering Detection

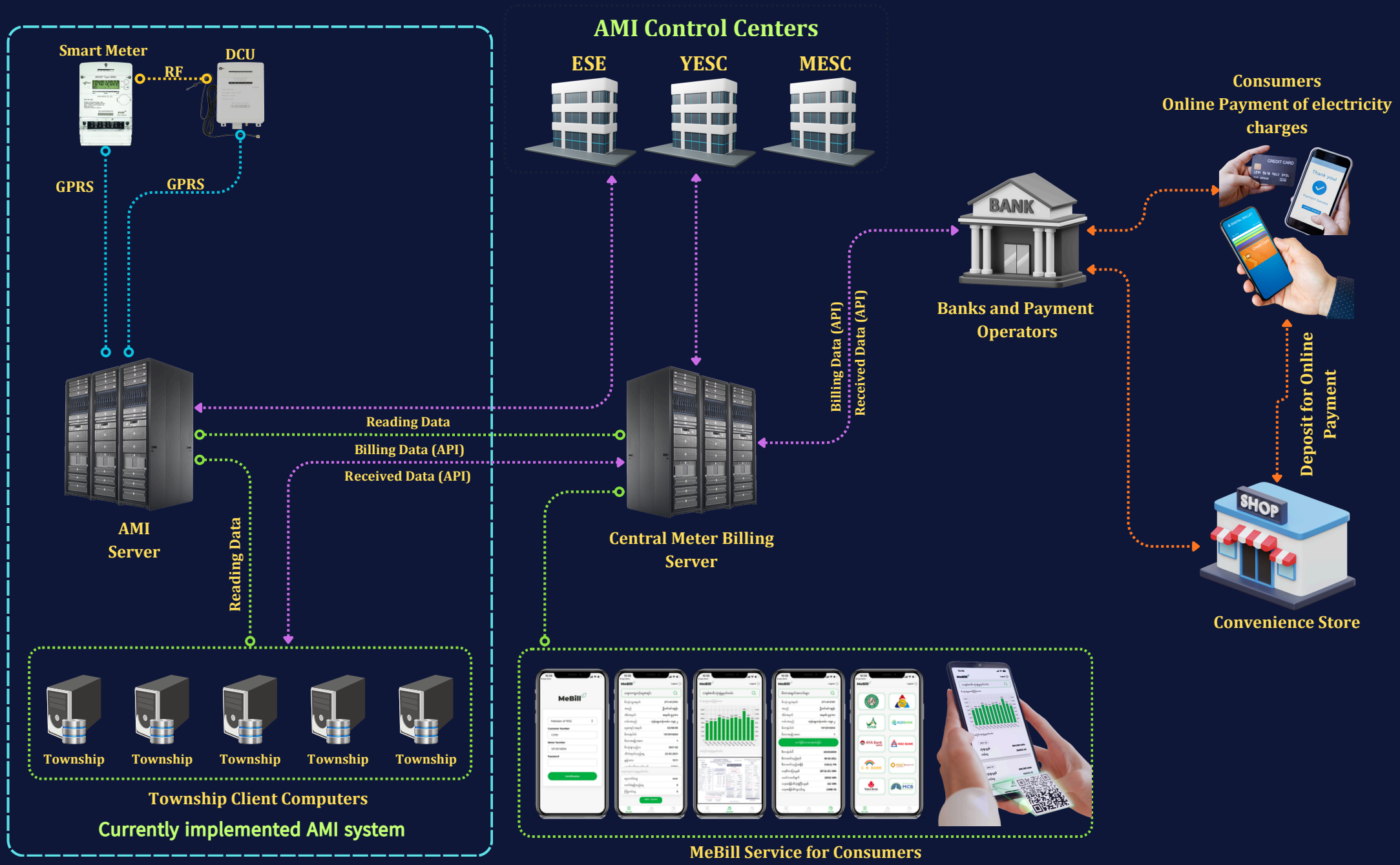
These meters help detect and respond to energy theft, minimizing losses for utilities and ensuring fair energy cost distribution.



Customer Control

Smart meters empower customers with greater control over energy consumption, helping them manage usage and lower their bills effectively.

AUTOMATIC BILLING SYSTEM (ABS) WITH INTEGRATED BANKING AND ONLINE PAYMENT CAPABILITIES, COMPLIANT WITH MINISTRY OF ELECTRICITY AND ENERGY FORMATS



Type of Electric Smart Meter used in Myanmar's AMI System

Type of smart meters used in AMI System in Myanmar

1. Single Phase Two Wire Watt-Hour Meter
2. Three Phase Four Wire Watt-Hour Meter
3. Current Transformer Meter (CT)
4. High Tension Meter (HT)



1 Single Phase Two Wire Watt-Hour Meter



2 Three Phase Four Wire Watt-Hour Meter



3 Current Transformer Meter (CT)



4 High Tension Meter (HT)

Digital transformation of power sector in Myanmar

Meter ~ DCU
Smart meters communicate wirelessly with the DCU at 435 MHz within a 100-meter radius.

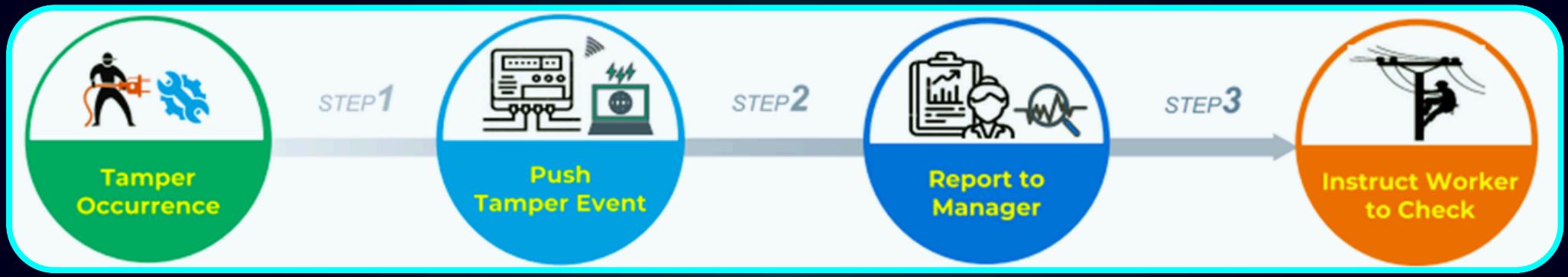
DCU ~ Server
The DCU equipped with a SIM card, transmits meter data to the central server via GPRS Modem.

Two-Way Communication
Smart meters send consumption data to the DCU, which transmits to the server. Simultaneously, the server sends commands to meters via the DCU.

Data Flow to Server and Township Electricity Office
Meter readings from a 100-meter radius are sent to the server and shared with the township electricity office.

Server to Monitoring Centers
The server disseminates data to monitoring centers (ESE, YESC, MESC) for control and command via the DCU.

How to detect & take an action for tamper event





METER

- Base, terminal cover open.
- High density Magnetic field.
- Reverse, Bypassing, Missing neutral, Double feeding.
- Neutral disturbance, partially (or) fully earth to neutral cable.



AMI SYSTEM

- Monitoring tamper status and meter history checking.
- Add intensive monitoring target on related meter.
- Report to meter manager on related meter information

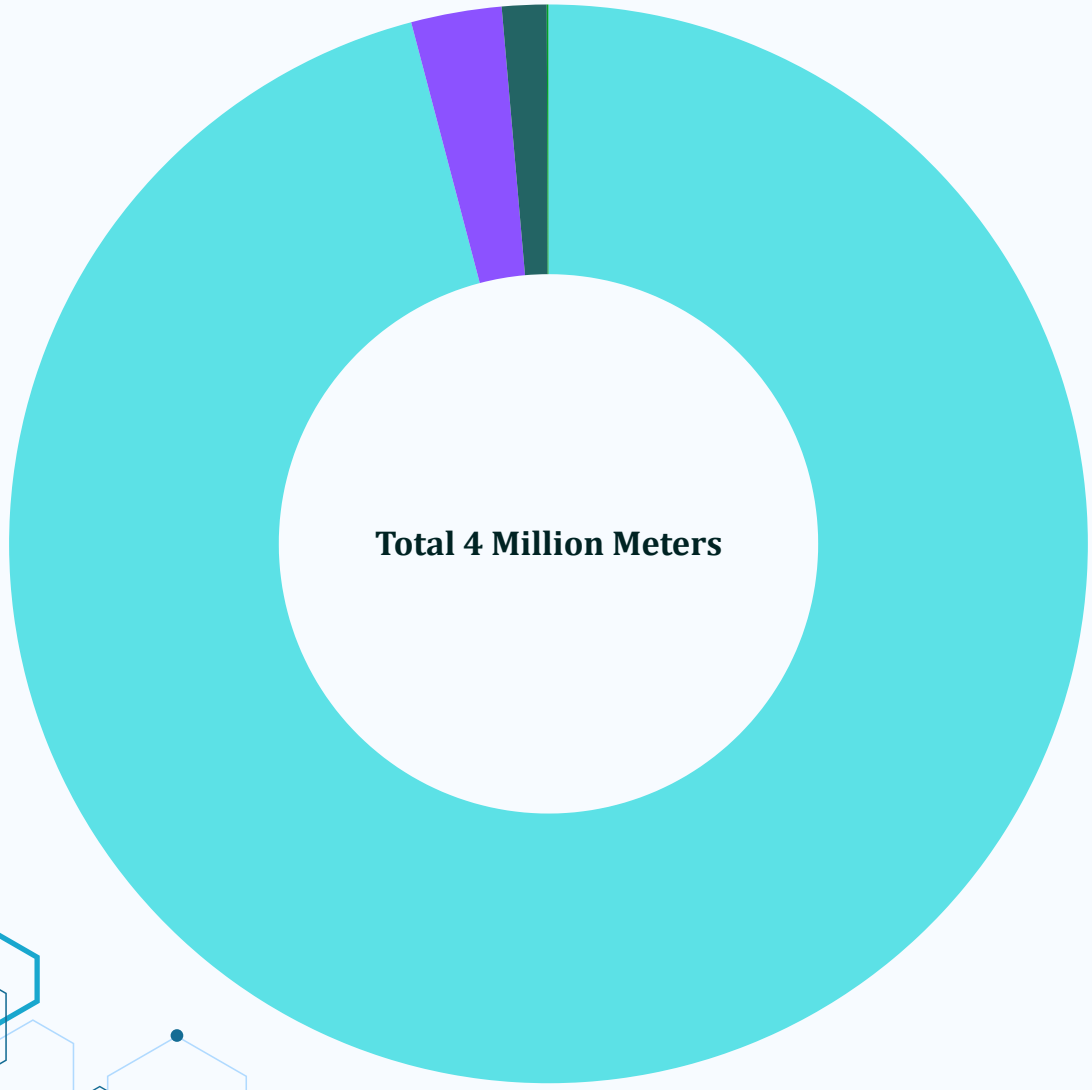


LINE MAN

- Instruct lineman to check related meter status.
- Check the meter on cover open, wiring fabriation, sealing, etc. on site.
- Notify customer of the tamper meter.
- Meter management and security procedure enhancement.

BENEFITS & PROVEN RESULTS

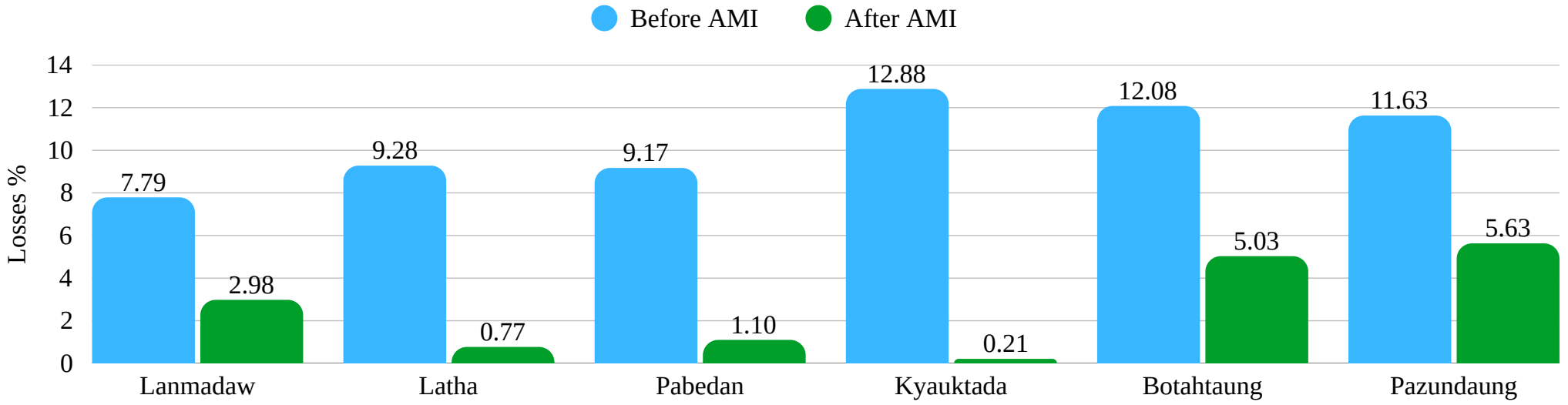
INSTALLATION AND USE OF EVER AMI SMART METERS AT THE MINISTRY OF ELECTRICITY AND ENERGY



Single Phase Meter	3,761,627 Nos
Three Phase Meter	206,389 Nos
CT Meter	52,326 Nos
HT Meter	2,000 Nos

THE IMPLEMENTATION OF THE AMI SYSTEM ACROSS 6 DOWNTOWN TOWNSHIPS UNDER YESC HAS SUCCESSFULLY RESULTED IN A SIGNIFICANT REDUCTION IN POWER LOSS PERCENTAGES.

Township	Before AMI System	07-2025	08-2025	09-2025	10-2025	11-2025	12-2025	Average Losses (%)	Loss Reduction (%)
Lanmadaw	7.79	2.99	3.1	3.2	2.81	2.85	2.9	2.98	5.04
Latha	9.28	0.95	0.87	0.71	0.7	0.69	0.68	0.77	8.51
Pabedan	9.17	1.03	1.02	1.04	1.25	1.14	1.12	1.1	8.07
Kyauktada	12.88	0.71	0.58	0.6	0.52	0.69	0.49	0.21	12.67
Botahtaung	12.08	5.38	5.31	5.25	4.99	4.79	4.43	5.03	7.05
Pazundaung	11.63	4.14	5.02	4.58	5.68	8.63	5.75	5.63	6



The Advantages of AMI System

Advantages for Government

Revenue Optimization

The implementation of the Advanced Metering Infrastructure (AMI) system facilitates efficient financial management for the government. According to the MOEE, 30 townships used the Advanced Metering Infrastructure (AMI) system to reduce power loss by 9%. In these townships, electricity loss was 14% to 15 % before, but now the loss of electricity is only about 6% .

Cost Reduction and Efficiency

The integration of AMI and Automatic Billing systems streamlines processes at the Ministry Of Electricity and Energy. Utilizing modern technology for record-keeping and electronic forms minimizes storage requirements, reduces the risk of damage associated with traditional paper forms, and cuts down on financial costs. The automated disconnection and reconnection processes minimize disputes with electricity consumers, ensuring accurate billing and efficient service.

Proactive Planning

Leveraging the Load Monitoring system allows the government to continuously monitor engineering data, facilitating proactive planning for repairs and expansion activities. The GPS system for on-site meter inspection streamlines processes efficiently, preventing damages and minimizing operational disruptions.

The Advantages of AMI System

Advantages for Consumers

Convenience

The AMI system enhances customer convenience by eliminating the need for manual reading of indoor meters. Additionally, flexible billing date options cater to the financial circumstances of consumers, providing them with more control over their electricity payments.

Customer Service

Real-time data collection and electric service switching capabilities of AMI increase the speed of customer services.This includes handling customer calls and swiftly activating or deactivating electric service, improving overall customer satisfaction.

Billing Accuracy

The AMI's ability to reliably collect accurate billing data significantly reduces the number of estimated bills and customer disputes. This contributes to a more transparent billing process, enhancing trust between consumers and utility providers.

Outage Management

AMI meters enable real-time detection of power outages and restorations, providing crucial information to the outage management system. This leads to quicker identification of outages, efficient restoration activities, and reduced outage times during events like storms, ultimately improving the reliability of electricity services for consumers.

TRAININGS, CONCLUSION

RECORD OF CONDUCTING PRACTICAL TRAINING ON CONTROL AND INSPECTION FOR ELECTRICAL ENGINEERS AND OFFICIALS FROM THE FINANCE DEPARTMENT AT AMI CONTROL AND MONITORING CENTERS






















RECORDS OF TECHNICAL REFRESHER TRAINING (THEORETICAL & PRACTICAL) CONDUCTED FOR STATE, REGIONAL, DISTRICT, AND TOWNSHIP OFFICES UNDER THE MINISTRY OF ELECTRICITY AND ENERGY



Conclusion

Overview of AMI System

The Advanced Metering Infrastructure (AMI) system is a comprehensive technology that revolutionizes the way utilities manage and monitor electricity consumption. It involves the integration of modern metering devices, communication networks, and data management systems to create a sophisticated and efficient framework.

AMI System and Electric Smart Meters Market

Within the global landscape, the market for AMI System and electric smart meters is witnessing notable growth. The deployment of these meters is driven by a growing emphasis on energy efficiency, accurate billing, and the overall modernization of the power infrastructure.

Digital Transformation in Cambodia's Power Sector

Integrating our EVER Smart Meters with the AMI system drives Cambodia toward a modern and resilient power grid. Through real-time data analytics and bi-directional communication, this partnership aims to drastically reduce power losses, streamline billing, and establish a highly sustainable energy ecosystem across the country.



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