



**INFINITY
EGYPT**

PROVEN PRECISION

Strengthening the national grid through innovative smart metering and precision testing solutions,
across every sector—from generation to calibration.

Company Profile





SINCE 2000

Infinity Egypt has been the backbone of high-precision energy measurement in the Egyptian electricity sector.

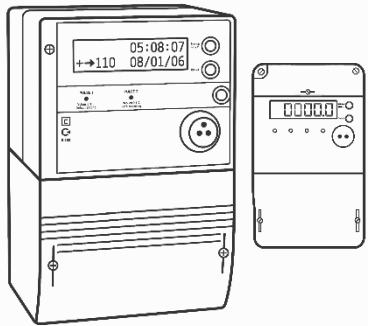
With over a quarter-century of expertise, we provide the advanced metering and testing solutions that power the nation's infrastructure.

As the exclusive Egyptian partner for ZERA Testing Systems and EDM I Smart Meters, we bring world-class precision to the local market.

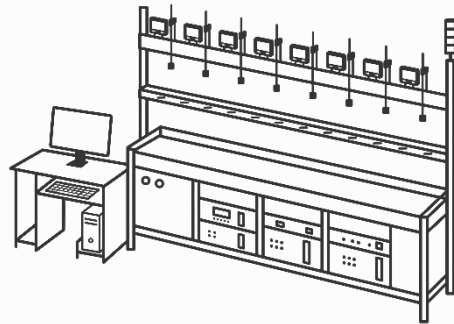
25+ YEARS OF EXCELLENCE

OUR EXPERTISE

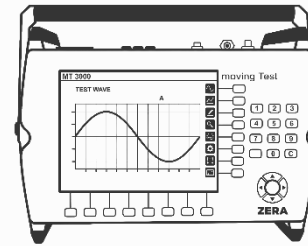
We deliver end-to-end energy measurement and infrastructure support. Our portfolio combines cutting-edge hardware with deep industry insight to ensure your infrastructure is ready for the next generation of smart grids.



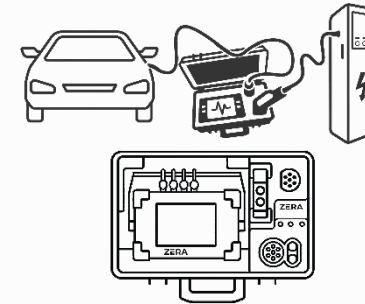
SMART METERS



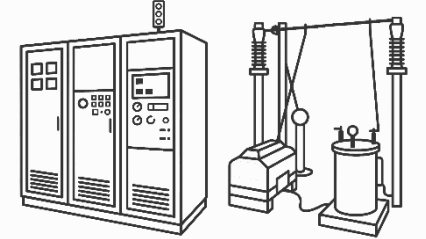
STATIONARY METER
TEST SYSTEMS



PORTABLE METER
TEST SYSTEMS



E-MOBILITY TESTING
SYSTEMS



TRANSFORMER TEST
SYSTEMS



ENGINEERING SERVICES

Infinity Egypt provides state-of-the-art testing systems and portable meters designed for unparalleled accuracy. From comprehensive laboratory setups to field-ready portable units, our solutions empower utility providers and manufacturers to maintain the highest standards of energy measurement.

STANDARDS & COMPLIANCE ADVISORY



Technical consultancy and support services in the field of smart meters, Testing and calibration units, ensuring the highest levels of accuracy and technical compliance.

CAPACITY BUILDING



Specialized Hands-on Training, focusing on the practical configuration of Testing units, data acquisition techniques, and routine troubleshooting.

SMART METER DEPLOYMENT SUPPORT



Technical guidance for large-scale rollouts Providing regulatory roadmap while ensuring all hardware and software follow standards, robust communication networks and cybersecurity.





OUR PURPOSE

MISSION

To provide Egypt's electricity sector with high-precision metering, testing, and calibration solutions that ensure accuracy and operational excellence across all Egypt's Energy Grid.

VISION

To set the national benchmark for precision energy measurement and smart metering solutions, supporting Egypt's energy future through trusted partnerships and advanced technologies.





Strategic Pillars



PRECISION EXCELLENCE

We set the benchmark for accuracy in energy measurement and testing, ensuring confidence, compliance, and operational excellence across the power sector.



INTEGRITY

We lead with integrity, accountability, and respect for international standards, fostering trust with every stakeholder we serve.



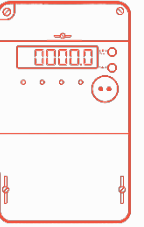
CONTINUOUS INNOVATION

We continuously adopt advanced technologies and testing methodologies to stay ahead of evolving industry standards, ensuring our clients benefit from future-ready solutions.



TECHNICAL RELIABILITY

We support mission-critical national energy operations with dependable systems, responsive support, and long-term service commitment.



Advanced Smart Metering & Grid Intelligence

THE INTELLIGENT EDGE OF THE SMART GRID

Smart meters record electrical parameters, securely communicate with utility systems, support remote operations, and provide real-time visibility across the distribution network.

LOSS REDUCTION

Advanced tamper detection and line-loss identification, mitigate energy theft and maximize revenue.

REDUCED FAILURES

Robust hardware designed to withstand environmental stress and costly replacements.

LOW OPERATIONAL COST

Eliminate manual meter readings and reduce dispatch.

CUSTOMER TRUST

Empowering users with transparent usage data and eliminating billing disputes.

GRID INTELLIGENCE

Real-time analytics to monitor grid health, manage peak loads, and prevent.

PRECISION BILLING

Automatic transmission ensures customers only pay for what they use, exactly when they use it.



SMART METERS KEY FEATURES



HIGH RELIABILITY

Continuous operation with consistent performance under different environmental conditions.



FIRMWARE UPDATE OTA

Software enhancements installed remotely without on-site maintenance visits.



MULTI-PROTOCOL COMPATIBILITY

Supports various standards for seamless integration with smart grid platforms.



CYBERSECURITY PROTECTION

Advanced security mechanisms protect meter data against unauthorized access and cyber threats.



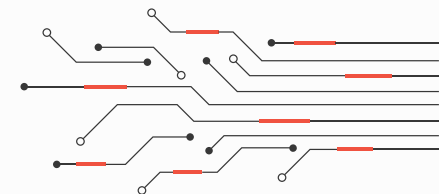
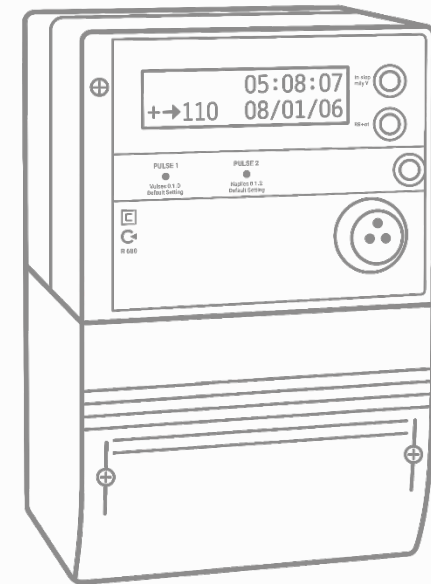
COMMUNICATION ROBUSTNESS

Stable and reliable communication ensuring successful transmission of readings and commands.



LOW FIELD FAILURE RATE

High-quality components minimizing failures and reducing maintenance efforts.





SMART METERS NATIONWIDE DEPLOYMENT

In partnership with Egyptian Electricity Holding Company EEHC and EETC, Infinity Egypt drives the modernization of the national power grid by providing the advanced smart metering infrastructure that serves as Egypt's primary benchmark for energy billing and management.

MAJOR SUBSTATIONS

New Borg El Arab — Al Khorafi
500 / 220 / 66 / 22 kV · Alexandria

Maspero GIS (NUCA)
66 / 11 kV · Boulaq, Cairo

Nagaa Hammadi AIS
500 / 220 / 66 / 11 kV · Qena

Al-Hawamdiya
500 / 220 / 66 / 11 kV · Giza

Beni Suef
220 / 66 / 22 kV · Upper Egypt

Obour
220 / 66 / 22 kV · Qalyubia

El Salhia
66 / 11 kV · Qena

Tura
66 kV · Cairo–Helwan corridor

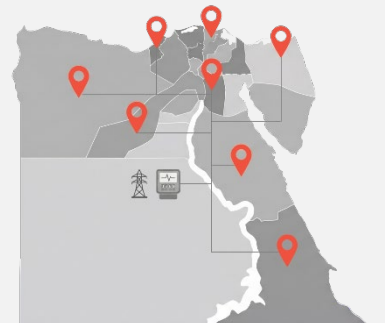


REGIONAL DISTRIBUTION NETWORKS (EEHC)

Infinity Egypt's meters manage energy flow across all local distribution companies: North Cairo, South Cairo, Alexandria, South Delta, North Delta, Behira, Upper Egypt, Middle Egypt, Canal.

REGIONAL TRANSMISSION NETWORKS (EETC)

Infinity Egypt's meters secure critical billing points across all major transmission zones: Cairo, Middle Egypt, Upper Egypt, Canal Zone, Delta, Alexandria & West Delta.



STRATEGIC INFRASTRUCTURE DEPLOYMENTS

Our smart meters power Egypt's most critical energy and industrial infrastructure — supplied through leading panel builders including EGEMAC, Siemens, ABB, EMAS, and Elsewedy.



SCZONE Substation

📍 Sokhna Industrial Zone

Extra-high voltage infrastructure for the "Al-Iqtisadeya" substation, securing a scalable, reliable power supply for heavy manufacturing across SCZONE.

500 / 220 / 66 / 22 kV

1.5 GW capacity



Benban Solar Park

📍 Aswan, Egypt

One of the world's largest solar installations — 32 individual power plants across 37 km², cutting 2 million tons of CO₂ annually and powering over 420,000 homes.

1,465 MW

3.8 TWh/year



New Delta Project

📍 Egypt's northwest coast

Electrical grid for Egypt's landmark 1-million-feddan land reclamation initiative, spanning EHV, HV, and MV distribution across 935+ km of network.

500 kV EHV · 360 km

220 kV HV · 575 km



Scatec Obelisk PV Station

📍 Qena, Egypt

One of the largest solar power and energy storage projects in Egypt and Africa, combining utility-scale generation with grid-level storage.

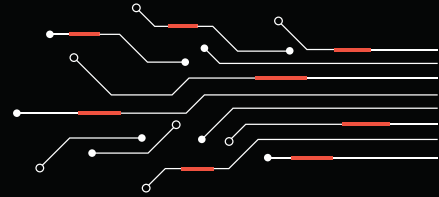
1,125 MW

Solar + Storage



OUR EXCLUSIVE STRATEGIC PARTNER

Since 2000, Infinity Egypt has served as the sole authorized partner in Egypt, boasting over a quarter-century of local expertise in Testing and Calibration and Smart Meters.



ZERA
Meter Testin g System s

ZERA (Germany): Over 100 Years of industry-leading precision in electrical measurement, providing testing systems that validate utility revenues worldwide.

ZERA develops devices and systems for the generation, measurement, testing, and calibration of electrical quantities With focus on meter and instrument transformer testing technology, as well as precision laboratory technology.

METER TEST SYSTEMS

The transition to smart meters requires testing solutions that go beyond conventional energy accuracy. The Stationary Meter Test Systems and Benches offer a comprehensive, highly reliable, and modular solution designed for both precise metrological calibration and in-depth communication verification. These systems are engineered to increase testing throughput, ensure regulatory compliance, and scale alongside future technological advancements.



SOURCES

200 VA up to 5600 VA
Class 0.1 up to 0.005



SOURCE COMPONENTS

Single components
for individual sources



TEST BENCHES

1 up to 20 test positions
Single- or three-phase





ZERA STATIONARY METER TEST SYSTEM FEATURES



MARKET-LEADING ACCURACY

Available in highly precise accuracy classes of **0.005%, 0.008%, and 0.02%.**



COMMUNICATION ADAPTABILITY

Ready-made to adapt to multiple communication technologies, including wireless systems (GSM,GPRS,RF, Bluetooth etc.)



COMPREHENSIVE SMART METER VALIDATION

Provides End-to-End testing, interoperability, and interchangeability validation for smart metering systems.



SINGLE-PHASE TESTING

Utilizes Multi-Secondary Voltage Transformers (MSVT) for the efficient testing of single-phase meters.



SUSTAINED STABILITY & ACCURACY

Features multi-wound core Isolated Current Transformers (ICTs) engineered for long-term reliability and accuracy.



TAMPER SIMULATION

Fully capable of simulating a wide variety of electrical tamper conditions.



UNIVERSAL QUICK ACTING CONNECTION DESIGN

provide flexibility to quickly connect all type and size of emery meter on test system



FUNCTIONAL FIELD SIMULATION

Enables simultaneous testing of connected smart meters under simulated field boundary conditions, verifying functionality like sustained accuracy during active communication.

ZERA





ZERA PORTABLE METER TEST SYSTEM

Integrated Sources: Test systems combine test meters with integrated sources, so technicians only need one device to supply custom voltage and current values.

Simulation Capacity: Capable of simulating up to **120 A** and **500 V**.

Accuracy Classes: Ranges from **0.2** to **0.02**.

Use Case: Primarily used for on-site accuracy tests, single-phase meter tests, and multi-phase meter tests.





ZERA PORTABLE METER TEST SYSTEM FEATURES



VERSATILE REFERENCE ACCURACY

Broad range of reference meter accuracy classes spanning 0.005%, 0.01%, 0.02%, 0.05%, 0.1%, and 0.2%.



REALISTIC FIELD SIMULATION

Built-in harmonic generation accurately replicates real-world electrical conditions.



IN-FIELD DIAGNOSTICS & SMART METER TESTING

Includes an installation checker & smart meter testing functions designed specifically for fieldwork.



SINGLE POSITION FULLY AUTOMATIC TEST SYSTEM

Single position fully automated testing for the rigorous calibration and R&D analysis of individual electricity meters.



COMPACT CURRENT GENERATION

Features a highly compact, integrated power source for up to 120A current generation.



SIMULTANEOUS DIAL TESTING

Evaluates Active, Reactive, and Apparent energies concurrently (supported by models MT310 and MT320).



SMART METER CONNECTIVITY

Seamlessly interfaces with smart meters using the CA400 communication adapter.



DC CAPABILITIES

Fully equipped for accurate Direct Current (DC) measurements (supported by models MT310S2 and MT320S2).

ZERA



reddot award

MT3000 – 2004
First Modular System
Reddot Design Award



E-MOBILITY TESTING SYSTEMS

E-Mobility Testing : Advanced on-site testing for AC and DC charging stations.

We provide you with specialist-developed testing equipment for e-charging stations for recurring testing of The compact solution is easy to store and handle. With our charging station testers, you can quickly and easily perform direct measurements on your vehicle and the charging station.

ZERA

MOBILE TEST

EMOB TEST CASE



STATIONARY TESTING

MTS3x0 (AC) & MTS7x0 (DC)





ITTS: INSTRUMENT TRANSFORMER TEST SYSTEMS

A precision systems for comprehensive CT/VT accuracy testing, including standard and special tests. Effective Transformer Testing provides numerous benefits, ensuring grid reliability and efficiency.

Complete Systems For Ct & Vt Testing



Testing Of Current Transformers



ITTS eco



Voltage Transformer Measuring Bridge



Voltage Burden



Current Transformer Measuring Bridge



Current Burden



METER TESTING SYSTEMS NATIONWIDE DEPLOYMENT

95%

Market Share

The leading provider of Meter Testing & Calibration Systems.

We have successfully deployed ZERA advanced calibration and testing solutions across both the regional distribution utilities and the high-voltage national transmission grid, achieving complete geographic coverage across every Egyptian governorates: Cairo, Delta, Alexandria, Canal, Middle Egypt and Upper Egypt.

0%

Return-to-Factory Rate

Spearheaded by our elite engineering team of highly qualified professionals



Global Standards, Local Expertise

Why Egypt's energy sector trusts us to manage their most critical infrastructure ?

Trusted by Egypt's Energy Leaders

Our elite range of precision metering and calibration systems is the industry standard. We are the established, trusted partner for all national electricity distribution companies, the transmission sector, leading panel builders, and major industrial zones across the country.

Decades of Market Mastery

With over 20 years of dedicated operation, our roots in Egypt's energy sector run deep. We leverage our extensive history to help clients navigate complex local regulatory frameworks and technical landscapes, ensuring project success from procurement to implementation.

DRIVING INNOVATION WITH OUR SUCCESS PARTNERS





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A WORD FROM OUR CEO

At Infinity Egypt, we believe that trust is not given; it is earned through decades of unwavering commitment.

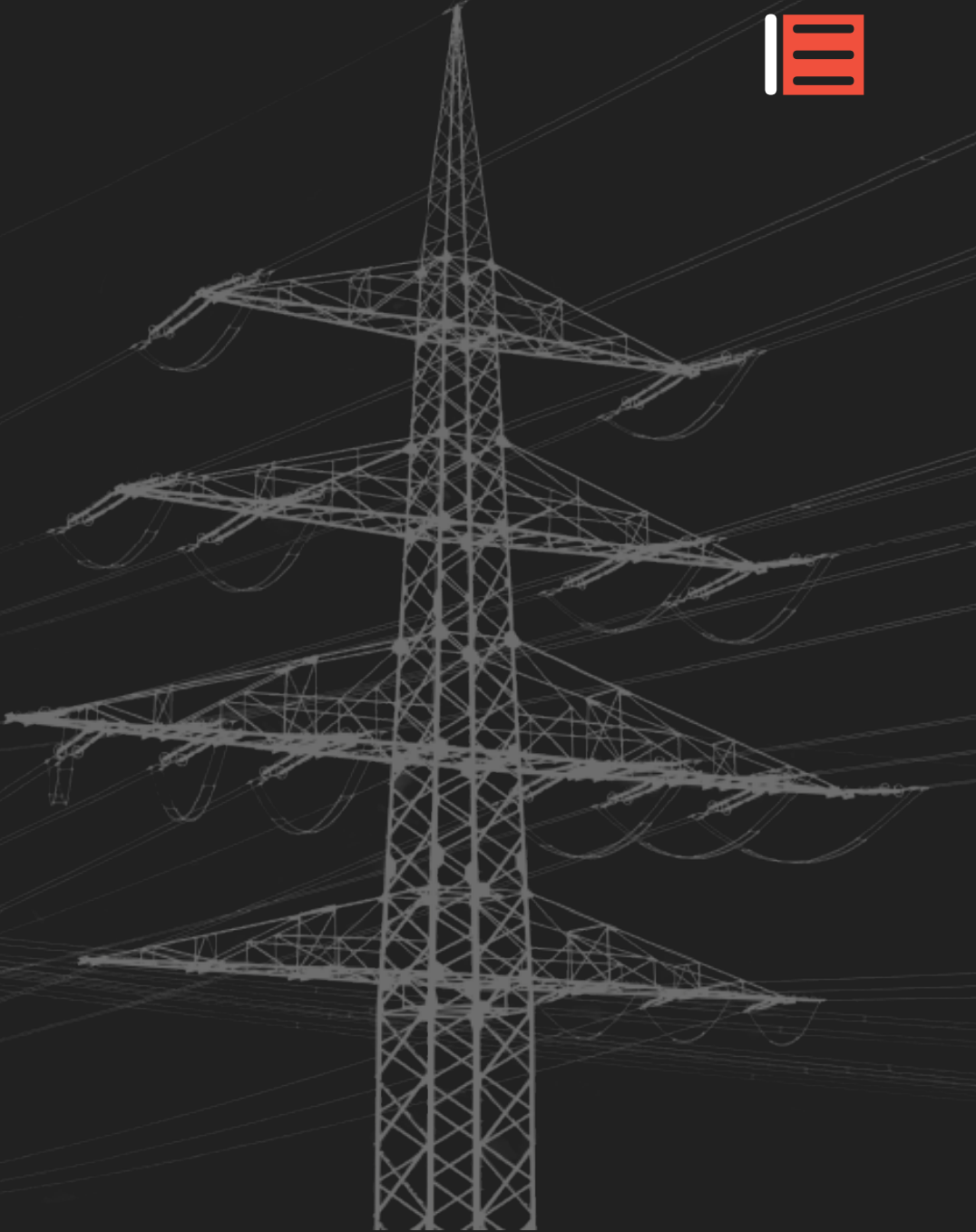
Our partners trust our team to solve their most complex engineering challenges and guide their future development.

For us, integrity and ethics will always outweigh material gain. That is the foundation of our golden reputation: our word is our bond, and our commitment to our clients' success is absolute.

DR ALI ELSAYED

CEO & FOUNDER, INFINITY EGYPT

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LIFE AT INFINITY EGYPT

EMPOWERING TALENT

DRIVEN BY INTEGRITY

Built on 25+ years of excellence, our golden reputation stems from the belief that integrity and ethics always outweigh material gain.



VISIONARY PURPOSE

We deliver end-to-end energy measurement and infrastructure support, preparing Egypt for the next generation of smart grids.



TECHNICAL MASTERY

Our teams solve complex engineering challenges by deploying world-class precision technologies.



PRECISION & EXCELLENCE IN MEASUREMENT

We set the national benchmark for accuracy in energy measurement, testing, and calibration.





THE INFINITY EDGE

GLOBAL STANDARDS

All equipment meets IEC and local regulatory requirements. Future-ready capability. E-Mobility infrastructure testing and advanced power quality analysis.

ROI & EFFICIENCY

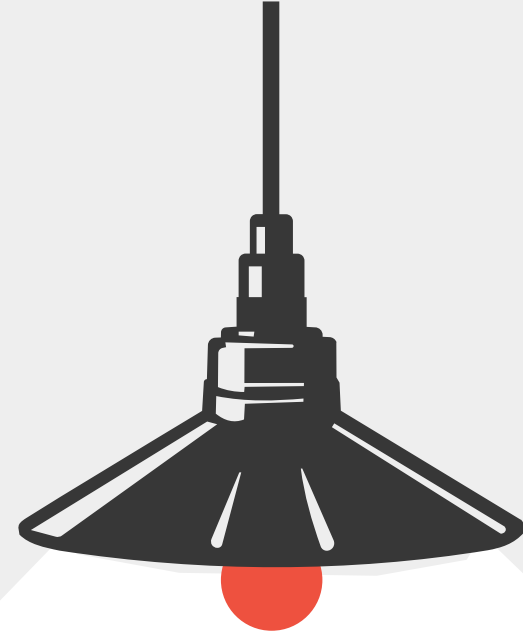
By deploying up to 0.02% precision testing and utility-grade meters, we actively plug revenue leaks and reduce commercial losses.

EXPERT SUPPORT

We provide immediate, on-ground troubleshooting and maintenance—eliminating the costly delays. Comprehensive after-sales service and technical training.

TAILORED SOLUTIONS

Systems customizable to your specific laboratory or field requirements. Built for long-term industrial use in demanding environments.



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