datacentrix

Operational Technology

Environmental, Social and Governance (ESG), Metering and Industrial Internet of Things (IoT)

Confidential
This document is confidential and intended for the use of the distribution parties only. Any copying or dissemination of this document is strictly prohibited.
© 2026 Datacentrix (Pty) Ltd

Environmental, Social and Governance (ESG) performance can only be managed if it is measured accurately, continuously and defensibly. Many organisations struggle with fragmented data, manual reporting and estimates that fail under audit or regulatory scrutiny.

1. Turning Operational Data into Trusted ESG Outcomes

The Datacentrix ESG offering bridges the gap between physical operations and sustainability reporting, delivering end-to-end solutions that combine industrial-grade metering, Internet of Things (IoT) data collection and enterprise ESG software to provide a single, trusted source of truth.

2. ESG Metering: Measure What Actually Happens

At the foundation of credible ESG reporting is accurate, real-time measurement. We deploy industrial energy metering solutions that capture consumption and generation data at site, building, production line, and equipment level.

2.1 What we measure

Metering is implemented using industrial-grade sensors and meters, designed for continuous operation in manufacturing, mining and critical infrastructure environments to measure:

- Electricity consumption (single-phase and three-phase)
- Energy imported from and exported to the grid
- On-site renewable generation (e.g. solar photovoltaics)
- Power quality, load profiles and peak demand
- Data required for scope 1 and scope 2 emissions calculations

2.2 Industrial IoT: From meter to platform

Metering data is securely transmitted through an IoT-enabled architecture that ensures reliability, scalability and data integrity.

How it works: This architecture supports cloud, on-premises, or hybrid deployments, allowing alignment with cybersecurity, data residency and OT constraints.

1. Sensors and probes measure electrical parameters
2. Smart meters process and normalise the data
3. Gateways aggregate readings at site level
4. Data is securely transmitted to on-prem or cloud platforms
5. APIs integrate the data into ESG analytics and reporting systems

3. ESG Software and Reporting: From Data to Disclosure

Raw data alone does not meet ESG requirements. We integrate metering and IoT data into enterprise ESG platforms that convert operational measurements into audit-ready sustainability insights.

3.1 ESG software capabilities

Our solutions support IBM Envizi-based ESG reporting, enabling alignment with global sustainability frameworks and corporate disclosure requirements, including the following capabilities:

- Automated scope 1 and scope 2 emissions calculation;
- Energy, cost and carbon performance dashboards;
- Site, business unit and group-level reporting;
- Trend analysis and year-on-year comparisons; and
- Exportable reports for audits, regulators and stakeholders.

4. Designed for Operations, Not Spreadsheets

Unlike manual ESG reporting approaches, our model is:

- **Automated:** No manual data collection required;
- **Continuous:** Not only annual or quarterly snapshots;
- **Verifiable:** Backed by physical measurement;
- **Scalable:** From single sites to multi-country operations; and
- **Secure:** Designed for OT and industrial environments.

This ESG reporting approach ensures that ESG data can withstand external audits, regulatory reviews and investor scrutiny.

5. Drive Sustainability Through Technology

Support your strategic decision making, decarbonisation efforts and regulatory disclosures with ESG solutions from Datacentrix. Contact our OT specialists and see how we can help you solve your most urgent and complex sustainability challenges using data and insights.

Email Karina Geyser, Business Unit Manager: Infrastructure Solutions and Operational Technology at Datacentrix on kgeyser@datacentrix.co.za. or visit www.datacentrix.co.za/ibm-envizi.html

6. National Contact Details

Corporate office
Tel: +27 87 741 5000

Corporate Park North
238 Roan Crescent, 1685
Old Pretoria Road, Midrand

PO Box 50722
Randjiesfontein
Midrand, 1683

Logistics centre
Tel: +27 12 657 5000

26 Landmarks Avenue
Kosmosdal, Extension 11
Samrand, Midrand

PO Box 50722
Randjiesfontein
Midrand, 1683

Coastal

Cape Town office
Tel: +27 21 529 0700

18 Oxbow Crescent
The Estuaries
Century City, 7441

PO Box 181
Century City
Cape Town, 7446

East London office
Tel: +27 43 705 8000

Suite 2, 11 Cavendish Road
Vincent
East London, 5217

PO Box 19066
Tecoma
East London, 5214

Gqeberha office
Tel: +27 41 391 0200

Southern Life Gardens
Ground Floor, Block B, 70 2nd Avenue
Newton Park, Gqeberha

PO Box 63657
Greenacres, 6057

Durban office
Tel: +27 31 389 0500

1st Floor, 30A The Boulevard
Dawncliffe, Westville
Durban, 3629

PO Box 1645
Westville, Durban, 3630

Middle East

Doha office
Tel: +974 4007 1793

Eighteen Tower
Zone 69, Street 303, Building 230
19th Floor, Office 1972
Lusail, Doha, Qatar
PO Box 23107

Rest of Africa

Datacentrix deploys technologies and provides support services to customers across 45 countries in the rest of Africa.

www.datacentrix.co.za