



Your trusted partner in the journey to a sustainable tomorrow.

**ISO METRIX**

# Environmental Sustainability

## Typical challenges

Environmental Sustainability is a multi-disciplinary field, which focuses on finding solutions to environmental challenges and the development of improvement mechanisms for environmental issues across the organization.

The role of the HSE practitioner has typically been focused on:

- Risk assessments
- Qualitative and quantitative audits/inspections
- Incident management

- Environmental monitoring
- Reporting

IsoMetrix facilitates sustainability reporting according to global guidelines such as the Global Reporting Initiative (GRI).

The advent of integrated Governance, Risk and Compliance (GRC) management, and integrated reporting has significantly increased the scope of what the environmental practitioner needs to measure, monitor and report on. Ineffective systems mean that performing these tasks becomes increasingly difficult.

In many organizations, much of the information gathered is spreadsheet based, managed in silos and often outsourced to external service providers.



| Water   | Air   | Surface Area Change   | Waste  | Noise   | Energy   | Biodiversity   | Heritage   | Typical Sustainability Indicators  |
|---|---|---|--|---|--|--|--|--|
| Water quality<br>Water quantities<br>Water levels   | Dust fallout<br>Emissions   | Land use change over time (disturbed, rehabilitated, undisturbed)                                   | Waste types (hazardous and non-hazardous)<br>Waste storage<br>Waste disposal method  | Industrial type<br>Residential type<br>Rural type<br>Point reading<br>Duration readings | Fuel usage<br>Electricity usage  | Fauna<br>Flora   | Details and classification of heritage facilities (i.e. graves, archeological sites) | Company specific indicators  |
| Water quality results<br>Water volumes abstracted or used<br>Borehole water levels<br>Compliance against permit or other limits/targets<br>GRI EN indicator performance reporting | Fallout dust monitoring trends<br>Ambient emission results<br>Compliance against permit or other limits/targets<br>GRI EN indicator performance reporting | Land use baseline conditions and track land use over time<br>GRI EN indicator performance reporting | Quantities of waste stored on site and disposed of<br>Destination of disposed waste (i.e. landfill, recycled, incinerated)<br>GRI EN indicator performance reporting | Results of noise monitoring events<br>Compliance against permit or other limits/targets | Energy use trends<br>Set reduction targets<br>GRI EN indicator performance reporting | Biodiversity baseline conditions and results of biodiversity assessments<br>GRI EN indicator performance reporting | Results of ongoing inspections<br>Plot sites on a GIS platform                       | Water<br>Waste<br>Emissions<br>Production and mining data<br>Land use change<br>Various efficiency/intensity ratios (i.e. m3 of water consumed per ounce of gold produced) |

Depending on non-centralized systems is extremely inefficient and risky. For example:

- Consolidation of multiple spreadsheets makes report generation extremely time consuming
- Having data in disparate systems makes it difficult to understand and respond to
- Visibility of trends and exceptions is low
- Data security is compromised

The result is that the environmental practitioner spends more time on the clerical tasks of chasing up instructions, compiling reports and producing statistics than focusing on monitoring the effective implementation of compliance improvements.

## Our solution

The IsoMetrix Environmental Sustainability solution is an integrated web-based platform that is based on the requirements of ISO 14001 and incorporates the relevant clauses outlined in the ISO 26000 guidelines. The integrated nature of IsoMetrix enables:

- Efficient tracking of performance against compliance indicators and obligations
- The organization to meet its sustainability management and integrated reporting needs

The IsoMetrix Environmental Sustainability solution is used for:

- Capturing, managing and analyzing environmental monitoring data
- Displaying information on environmental sustainability indicators
- Sending notifications when limits are exceeded
- Capturing details of heritage sites and setting inspections
- Generating a variety of reports and graphics

Powerful dashboards:

- Track performance of the monitoring results against their compliance thresholds
- Assess how effectively the impact mitigation and enhancement initiatives have been implemented

## Benefits

- Use our solution template for a quick implementation or develop your own specific environmental tracking and reporting solution
- Monitoring results from traditional MS Excel based reporting systems, such as air and water quality, can be imported automatically into the solution

- Business leadership is able to view the positive and negative impacts of their business activities through dashboards. This understanding enables them to plan and strategize to mitigate negative impacts and enhance positive impacts. Mitigation and enhancement initiatives are assigned per location
- Environmental performance is available at the press of a button through system generated reports and dashboards
- Reports can be customized to your exact reporting requirements
- The Environmental Sustainability solution integrates with IsoMetrix risk management, incident, compliance, audit, carbon footprint and inspection modules

The effective implementation and use of the IsoMetrix Environmental Sustainability solution will secure your environmental license to operate.

## Why IsoMetrix?

**Unmatched agility.** Get the exact solution you need. What makes IsoMetrix exceptional is the flexibility of the software solution and its ability to easily be tailored to fit your specific processes and methodologies. Because systems can be configured by site-based personnel with minimal technical competency, organizations can significantly reduce the cost and increase the speed of the initial creation of, and enhancements to, the system.

**Powerful visualization.** Greater visibility enables better decision-making. The IsoMetrix dashboards present visibility around leading indicators, as well as the analysis of trends and exceptions. All data captured into the system is immediately available in the dashboards, from which you can drill down to record level when needing to understand specific results or trends.

**Integration.** The ease with which new modules can be created in IsoMetrix means that systems that are usually not integrated – islands of information such as standalone spreadsheets and databases – can be consolidated into a single system, with centralized administration and security. Integrating systems in this way drives organizational efficiency. IsoMetrix integrates with the Internet of Things, Active Directory, GIS solutions and various third-party systems such as ERP and HR.

**Security.** IsoMetrix offers multi-dimensional security, ensuring that all users only have access to data they have permissions for, based on the organizational structure, user groups and risk disciplines. As a business, we align with international guidelines on Information Security and Data Privacy, so you can have peace of mind.

**Assurance.** Trust your data. Because data is only captured once, there is less room for error. All reports aggregate records from source and allow drill down to specific record details, allowing for full assurance and effective audits of the reported data.

✉ If you have any questions about IsoMetrix or our solutions, please contact the sales team at [sales@isometrix.com](mailto:sales@isometrix.com)

[isometrix.com](https://www.isometrix.com)