DATA CENTER

SUSTAINABILITY COMPLIANCE REPORTING SOLUTION

Nlyte® Software

Compliance

Compliance is a top priority for businesses of all sizes. With so many emerging reporting regulations to keep track of, it can be challenging to know where to start. The Nlyte Data Center Sustainability Compliance Reporting Solution simplifies these processes. It offers a holistic dashboard for real-time sustainability measures and a reporting framework with industry-defined calculations and metrics to support ESG and sustainability compliance reporting.

- **Data center energy consumption**: The amount of electricity used by a data center to power its equipment. Data center energy consumption is a major contributor to greenhouse gas emissions.

- **Power Usage Effectiveness (PUE)**: A measure of the efficiency of a data center's power usage. PUE is calculated by dividing the total power consumed by the data center by the power consumed by the IT equipment.

- **Total CO_2**: The total amount of carbon dioxide emitted by a data center. Carbon dioxide is a greenhouse gas that contributes to climate change.

- **Carbon Usage Effectiveness (CUE) kg(CO_2e)/ kWh**: A measure of the efficiency of a data center's carbon emissions. CUE is calculated by dividing the total carbon emissions by the energy consumed by the IT equipment. A lower CUE indicates more efficient carbon emissions.

- **Water Usage Effectiveness (WUE)**: A measure of the efficiency of a data center's water usage. WUE is calculated by dividing the total water consumed by the data center by the water consumed by the IT equipment. A lower WUE indicates more efficient water usage.

- **Cooling efficiency**: The ratio of the amount of heat removed from a data center to the amount of energy used to remove the heat. A higher cooling efficiency indicates more efficient cooling.

- **Average Delta T (ΔT)**: The difference between the temperature of the air entering a data center and the temperature of the air leaving the data center. A lower **Δ**T indicates more efficient cooling.

- **Underutilized Servers:** Servers that are not being used to their full capacity. Underutilized servers can waste energy and resources.

The solution also includes the **Nlyte® Data Center Sustainability Index™ (DCSI)**, which is a single, aggregated score that measures the overall sustainability of your data center. The DCSI is calculated by comparing your data center's performance to industry-defined sustainability benchmarks.

Composite Sustainability Score — Historic Metrics — Projected Metrics — Filter

Data Center Sustainability Dashboard

Total CO_2 (kt(CO_2e)) — 895 kt(CO_2e)

Data Center Sustainability Index™ (DCSI)
87%

Average Delta T
36°F

Cooling Efficiency
1.47
kW/Ton

Energy Consumption
972
GWh

Power Usage Effectiveness
1.3

Total CO_2
895
kt(CO_2e)

Carbon Usage Effectiveness
1.197
kg(CO_2e)/kWh

Server Utilization
49%

Water Usage Effectiveness
0.49
L/kWh

Total carbon dioxide (CO2) includes all greenhouse gases (GHGs), such as CO2 and methane (CH4) converted to CO2 equivalents. Reducing carbon dioxide emissions related to data center operation is important to maximize operational efficiency, reduce negative impacts on resources and the environment and reduce carbon taxation costs.

Reference: https://www.thegreengrid.org/

Chart axis values: 0, 200, 400, 600, 800, 1000
Years: 2019, 2020, 2021, 2022, 2023 Projected

Current Measure — Color Coded Measure Alerts — Measure Definition

PREREQUISITES

- Nlyte Energy Optimizer(NEO) 12.X or higher - PN: DCIM-EO-CORE
- Nlyte System Utilization Monitoring (NSUM) - PN: DCIM-SUM-CORE
- Nlyte Data Center Sustainability Solution - PN: SUSTAINABILITY-CORE

The Data Center Sustainability Dashboard is an essential tool for effectively managing sustainable practices. It offers invaluable insights that significantly enhance your sustainability decision-making processes.

Nlyte Software's Sustainability Compliance solutions offer the necessary tools to track and comply with climate risk disclosures, and other sustainability reporting regulations. Reach out to us now to discover more about how we can assist you in maintaining compliance.

UNLOCK DATA CENTER EXCELLENCE
MANAGEMENT AND REPORTING OF THE DATA CENTER POWER CHAIN WITH NLYTE ENERGY OPTIMIZER

Nlyte Energy Optimizer (NEO) serves as a formidable tool for organizations seeking to advance their data center energy management and reporting. This solution offers substantial potential for both improving energy efficiency and realizing significant cost reductions. With a comprehensive array of features such as real-time monitoring, predictive analytics, and advanced sustainability reporting, NEO enables businesses to make informed decisions that not only decrease energy usage but also reduce their ecological footprint.

NEO's ability to integrate smoothly and its scalable architecture are vital for modern data center management. As organizations progressively grow and adapt, NEO's flexibility ensures it continues to be an essential resource for managing energy consumption, reducing risk in the power chain, and validating remote site performance.

Nlyte Software helps teams manage their hybrid infrastructure throughout their entire organization– from desktops, networks, servers, to IoT devices – across facilities, data centers, colocation, edge, and the cloud. Using Nlyte's monitoring, management, inventory, workflow, and analytics capabilities, organizations can automate how they manage their hybrid infrastructure to reduce costs, improve uptime, and ensure compliance with regulatory and organizational policies.

Nlyte Software is a part of Carrier Global Corporation, a global leader in intelligent climate and energy solutions. For more information, visit Nlyte.com or follow Nlyte on LinkedIn.

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