Document Greenhouse Gas (GHG) emissions of IT, DC and network infrastructure

Analyze the emissions footprint, identify areas for remediation, track progress

Achieve compliance with sustainability regulations

Contribute to decarbonization goals

FNT Sustainability

Master the transformation to greener IT, DC and network infrastructure operation

The FNT Sustainability is a powerful addition to the FNT Command Platform for organizations seeking to reduce their carbon footprint. It expands on FNT Command's comprehensive infrastructure management capabilities by documenting Greenhouse Gas (GHG) emissions. Specifically, it captures and documents Scope 3 emissions embedded in IT, data center and network infrastructures. It does so with an integrated data structure designed to hold ISO 14025 compliant environmental profile declarations (EPDs), along with the ability to upload these emission profiles to the device type master data management. Inheritance functions make it easy to roll out this data to the device instances.

Deep integration with the infrastructure management capabilities of the FNT Command Platform nearly fully automates the task of keeping the CO_2 footprint documentation up to date. The FNT Sustainability includes a ready-to-use FNT Analytics dashboarding configuration to analyze the emissions footprint, make informed decisions on where and how measures can be applied to decarbonize, and show progress towards becoming effectively greener.

IMPORTANT TERMS

- **Environmental Product Declaration (EPD)** – an ISO 14025 type III declaration that quantifies environmental information on the life cycle of a product to enable comparisons between products fulfilling the same function

- **Life Cycle Assessment (LCA)** – a methodology for assessing environmental impacts associated with all the stages of the life cycle of a commercial product as specified in ISO 14040

- **Global Reporting Initiative (GRI)** – provides businesses with the global common language to communicate their environmental impacts

- **Sustainability Accounting Standards Board (SASB)** – develops sustainability accounting standards for public corporations

- **Energy Efficiency Directive (EED)** – requires EU countries to report on energy efficiency investments

- **Corporate Sustainability Reporting (CSR)** – requires large and listed EU companies to publish reports on their social and environmental risks and impacts

FNT Sustainability in Detail

DOCUMENT EMISSIONS

Records the full range of eco impact factors, including embodied CO_2 emissions, freshwater use, mineral resource depletion and acidification, to name a few. Captures CO_2 emissions during the Use phase of the lifecycle for every element in the IT, data center, and network – both physical devices as well as virtualized elements.

KEEP THE DOCUMENTATION UP TO DATE

Maintain current documentation with near-zero effort in an ever-changing infrastructure landscape where devices are continuously being added, removed, relocated and changed. This is accomplished by administrating EPDs on the device type level and supporting data inheritance for any new device. Whether devices are existing or created by a planning protocol, all are supplied with the current and correct emission value overview. The same is true with the reconfiguration of complex devices, for example replacing cards, subcards and power modules. The documentation automatically updates with the overall emission profile of the newly reconfigured device.

SEE TRENDS AND IDENTIFY AREAS WHERE ACTION IS NEEDED

Compare and use business intelligence (BI) to analyze the infrastructure setup in regard to CO_2 and other emission values in every dimension: zonal location (building, floor, room, cage, rack), manufacturer (with product lines/families, models), organizational unit responsible, and device type. Data can further be sliced and diced by virtually any dimension available in FNT Command, out-of-the-box.

Full analytics dashboard shows high level success in CO_2 footprint reduction and allows for drilling down into any dimension for details.

TRACK PROGRESS AND PROVE SUCCESS

Demonstrate your decarbonization strategy and device and resource purchase policies are working. Show internal stakeholders and external auditors that the IT, network and data center are key contributors to helping meet overall regulatory obligations and staying compliant. The integrated, pre-defined FNT Analytics dashboard configuration displays both CO_2 totals and declining averages of CO_2 and other emissions. This data is also available per rack, height unit, and device type. Examining the data at this level of detail is critically important for companies that are growing their infrastructure, as totals alone do not tell an accurate story and in fact can mask the fact that their decarbonization strategy is working.

Overall CO2E rise due to capacity growth with company success and more digitization, new networks and new devices being rolled out.

But: Reduce CO2E averages (per rack, per HU, per device type) documentating a highly successful sustainablity initiative.
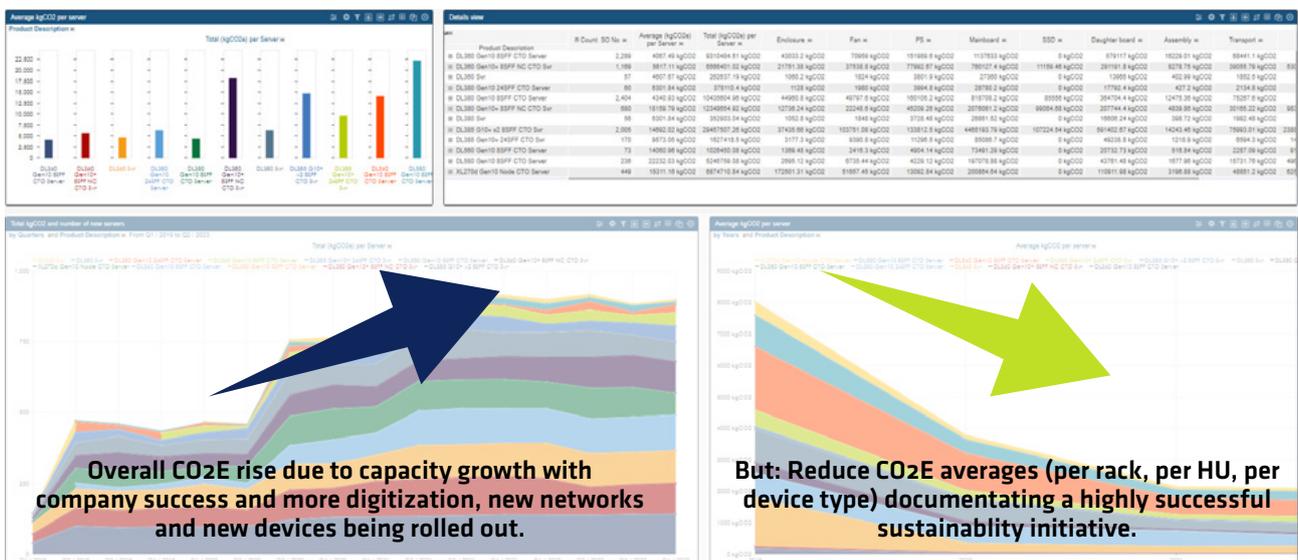
Section of Sustainability AddOn Dashboard that shows proof of progress in infrastructure growth scenarios.

HIGHLIGHTS

- **ISO 14025 norm and GHG Protocol compliant matrix data structure:** Easily upload and store Type III EPD data that manufacturers of IT, network and data center equipment provide. This data is derived out of the Life Cycle Assessments (LCAs) following the ISO norm series 14040. FNT provides the ability to not only hold and document these manufacturer-provided values, but also the individual determined CO_2 emission values for each. These individual values can be derived from measuring the equipment's power consumption and calculating CO_2, taking into consideration your individual energy mix.

- **Powerful inheritance feature:** Ensures environmental data is only uploaded once for each device type. FNT propagates this data automatically to every existing instance of that device type plus any new ones that enter your landscape in the future.

- **User-friendly UI front-end dialog:** Easily see the data for every asset and configuration element in the infrastructure and simplify extracting insights, drilling down into components and making updates and adjustments.

- **API to upload CO2 values:** CO_2 and all eco impact indicators in EPDs can be uploaded directly from external data sources with only minimal integration efforts.

- **Predefined FNT Analytics dashboard configuration:** Kickstart the process of gaining insights with out-of-the-box reporting and dashboards that show proof of progress across any scenario.

FNT Sustainability: Environmental impact indicator matrix adhering to ISO norm 14025.

KEY BENEFITS OF FNT SUSTAINABILITY

- **Become effectively greener:** Don't fall prey to greenwashing accusations. When you say your organization is making a positive environmental impact, be able to prove it. The combination of detailed documentation based on factual data and tracking changes in emissions produced by the infrastructure over time will arm you with the data to do just that.

- **Remain compliant with ever-tightening ESG/CSR legislation:** Documentation capability ensures you have the necessary, audit-ready overviews of CO_2 footprint data as input for financial year-end statements that require reporting on sustainability from 2024 onwards.

- **Retain access to important corporate refinancing sources:** Remain eligible for financing from major investment funds that require adherence to sustainability standards. This involves adopting clear sustainability strategies, demonstrating executive commitment, and implementing reporting aligned with globally recognized standards such as the GHG, GRI and SASB. Detailed infrastructure eco footprint documentation is essential for such robust sustainability reporting needed during the application process.

- **Reduce opex:** Sustainable IT and telecommunications equipment lowers expenses in a variety of ways. Lower energy and cooling expenses result from minimizing energy consumption and heat generation. Reduced replacement costs result from their enhanced durability and longer lifespans. Eco-friendly choices minimize waste generation and disposal costs. All can be achieved by using the FNT Sustainability to help determine which equipment and technology replacements, in which parts of the infrastructure, will have the greatest short-term positive impact – both in terms of technology and location.

- **Become eligible for tax exemption programs:** Governments worldwide offer various incentives to encourage sustainability efforts. To apply and prove eligibility, sound documentation and proof of progress is required.

Sampling of Government Programs and Regulations the FNT Sustainability Can Be Used to Address

IN THE US:

- Renewable Energy Tax Production Incentive (PTC)

- Investment Tax Credit (ITC), Energy Efficiency and Conservation Block Grant (EECBG)

- Data Center Infrastructure Efficiency (DCIE) 360 program

- Green IT program

- Senate Bill 253 Climate Corporate Data Accountability Act

- Senate Bill 261 Greenhouse gases: Climate-related financial risk reporting

IN EUROPE:

- Energy Efficiency Directive (EED)

- Renewable Energy Directive (RED)

- Renewable Energy Act (REG)

- Energy Efficiency Act (EnEfG)

- European Energy Efficiency Fund (EEEF)

- Sustainable Europe Investment Plan