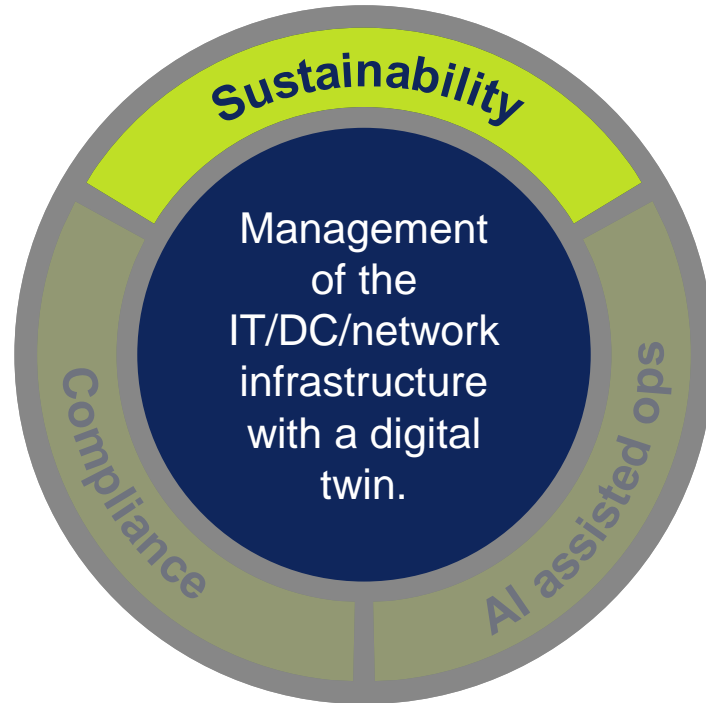




FNT Sustainability Management Aspects: How to reduce environmental impact of IT infrastructure ops

// Power to you! Your value add from a digital twin of the infrastructure.



// Today's simple agenda

- Sustainability and why you should care (on top of having a green heart!)
(3-5min)
- Emission scopes: What are they and why do they matter?
(3-5min)
- How FNT Solutions can help you successfully meet the challenges!
(9-15min)
- Q&A
(~5-10min)

// Sustainability in large IT, DC & network infrastructure ops:
Is it optional?

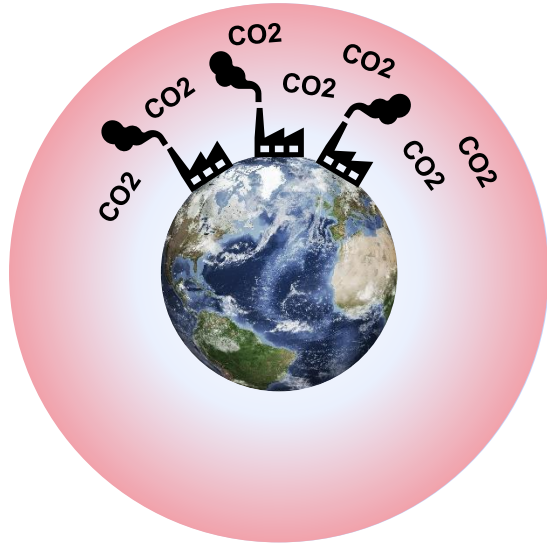
Simply put: No.

- You **need this planet & its environment intact** just like everyone else.
- You **will become non-compliant** if you do not take measures.
- You **will loose access** to important corporate refinancing sources.
- You **will run at higher operating cost** than your competitors.
- You **will miss out on tax exemption** programs.



CSR/
ESG
Compliance





**GHG Protocol
1998**



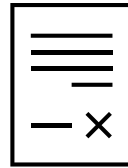
CCF
Corporate Carbon Footprint



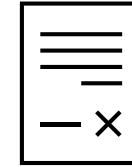
WORLD
RESOURCES
INSTITUTE



wbcscd

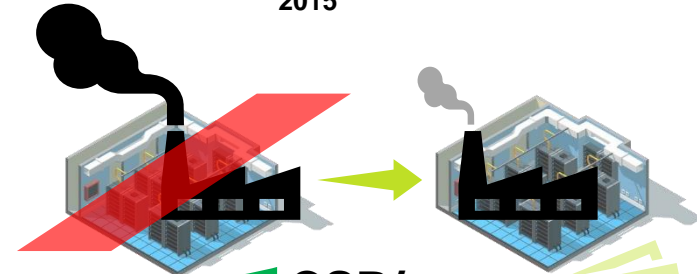


**Kyoto Protocol
1997**



max 2°C/1.5°C

**Paris Agreement (COP21)
2015**

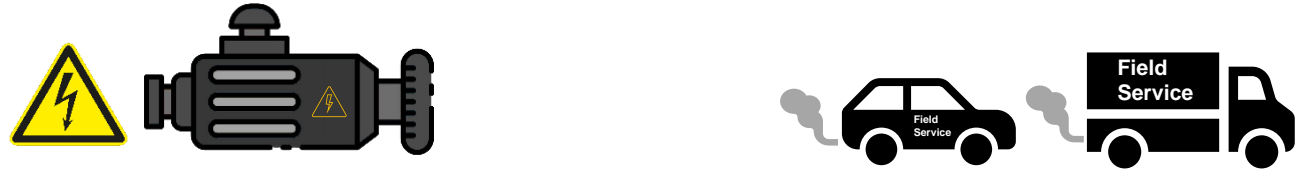


**CSR/
ESG**
Compliance

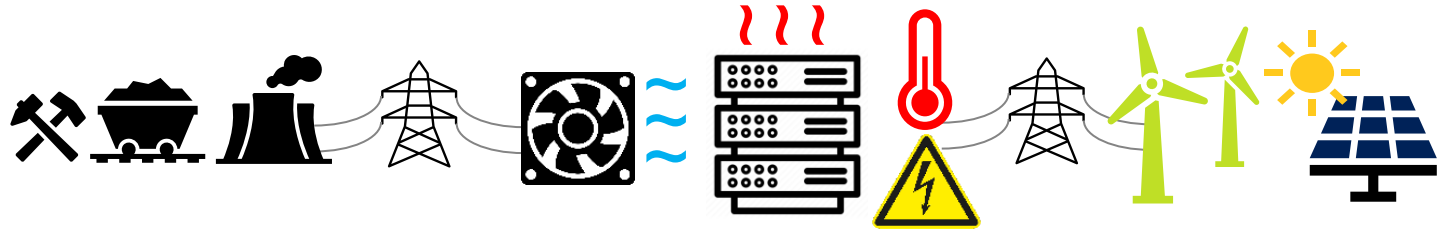


// GHG Protocol Corporate Standard – Emission Scopes: What are they?

Scope 1



Scope 2

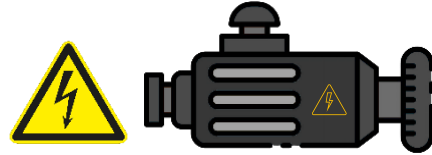


Scope 3



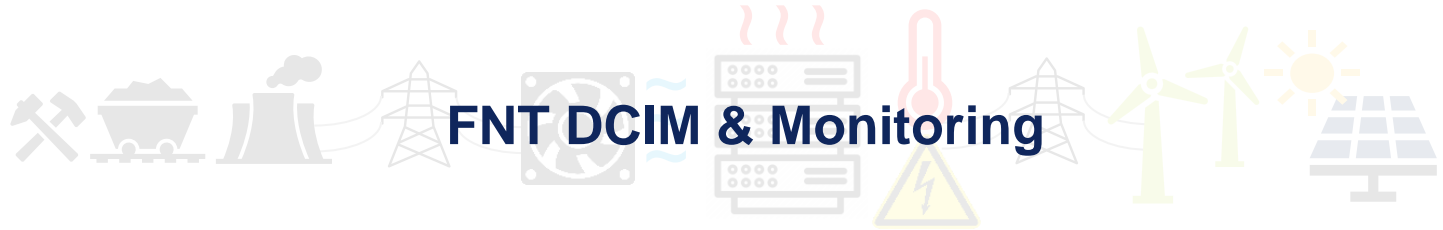
// How do FNT Solutions help you to successfully overcome the challenges!

Scope1



**FNT Planning &
Workorder Management/
Process Center**

Scope2



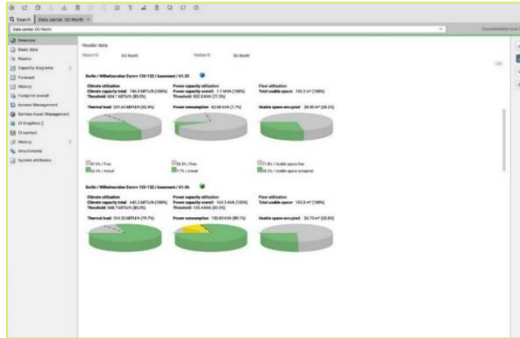
FNT DCIM & Monitoring

Scope3



FNT Environmental Impact Management AddOn

// Scope 1 Support: FNT DCIM & Monitoring

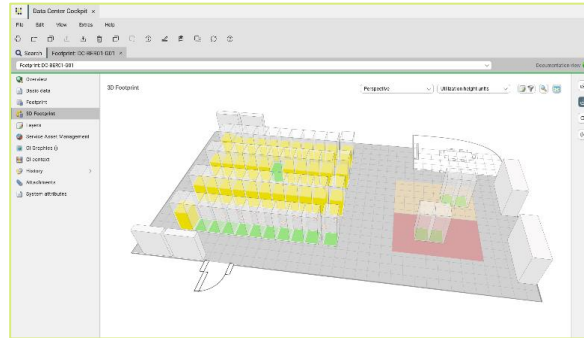


FNT Command overall total capacity management reporting (strategic view)

- Climate capacity & reserves
- Power capacity & reserves
- Combine it with space & reserves

Enables infrastructure operators to

- reliably plan ahead mid- and long-term
- optimize investment
- support CO2E reduction measures

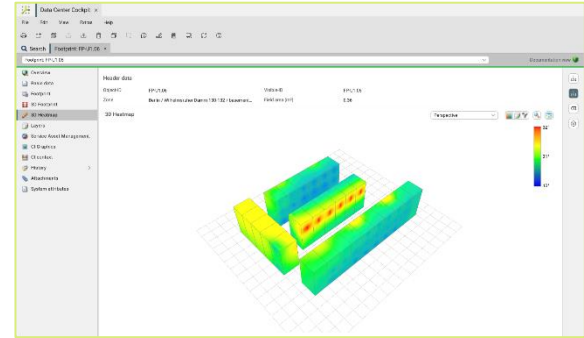


FNT Command capacity management process support (operational view)

- Locate capacity bottlenecks
- Identify options to resolve capacity deadlocks
- Find rackspace for rollout of new equipment

Enables infrastructure operators to

- optimize utilization
- avoid stranded capacity
- make planning and rollout processes of new devices faster & more reliable



FNT Command Heatmap for cooling management support

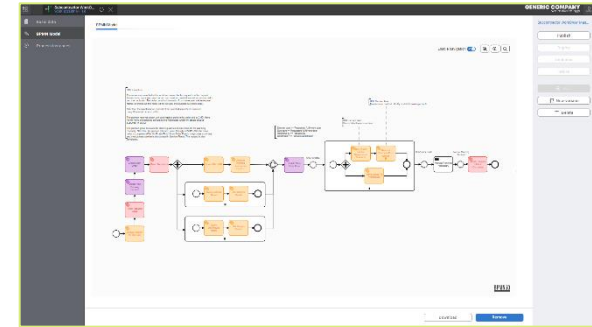
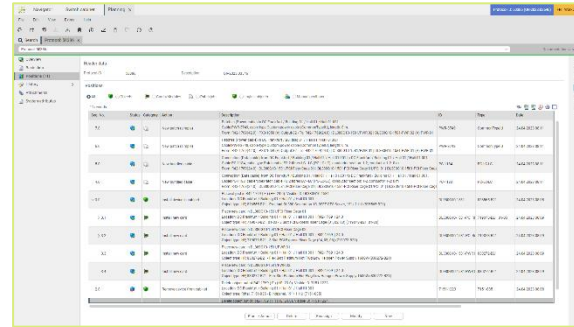
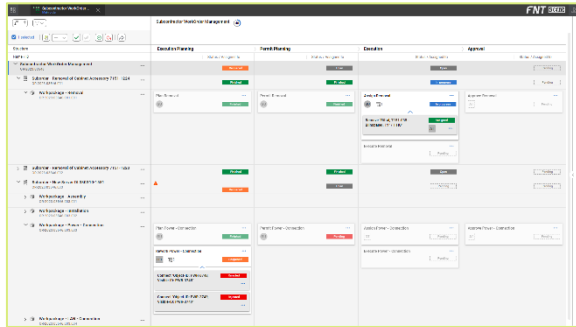
- Recognize hotspots visually
- Identify & resolve causes

Enables infrastructure operators to

- Control that overall cooling strategy works
- optimize thermal management
- improve PUE
- support CO2E reduction measures

► Reduce CO2E footprint operationally: Optimize energy consumption of equipment in lifecycle phase „use“

// Scope 1 Support: FNT Planning & Workorder Management/Process Center



FNT Workorder Management (Phase-driven matrix overview)

- From request to planning to delivery
- From requirement to actual design
- Per silo/function but overarching orchestration

Enables infrastructure operators to

- collect assignments of workorder for the same trades at locations with regard to time criticality
- execute mass assignments to internal workforce teams or subcontractors

FNT Command Planning Protocol and Step-by-Step-Instructions

- created by enabling the planner to do detailed assisted planning in a digital twin of the infra
- containing all information to execute

Enables infrastructure operators to

- send technicians out perfectly prepared and with the required material on board
- reduce onsite visit repetition due to unclear instructions or divergence btw plan and reality

FNT Process Center Workflow Management

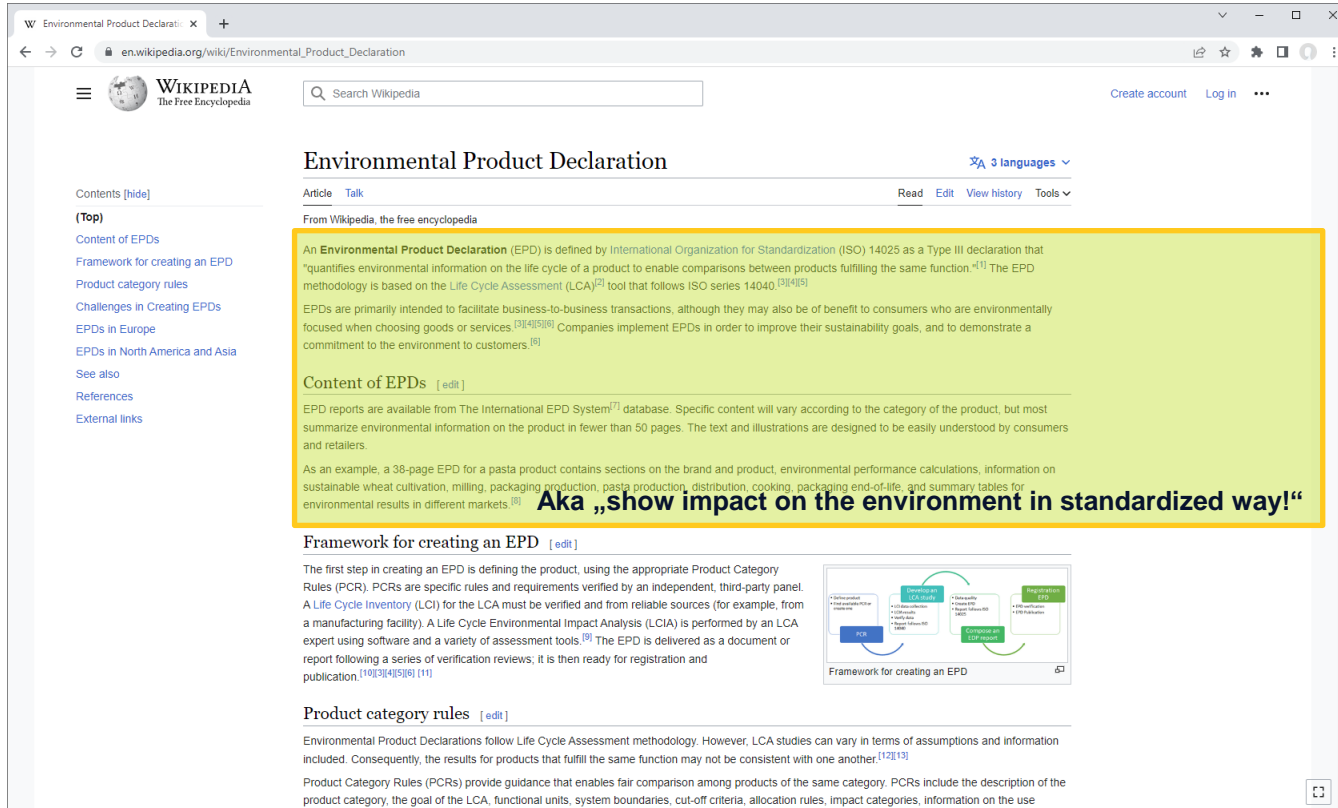
- Design & optimize workflow in workorder mgmt
- Insight into the status of all running workflow instances

Enables infrastructure operators to

- Automate work item assignment
- Accelerate processes
- Exert control over workflow execution

► Reduce CO2E footprint in services: Fewer onsite visits & more work per visit, reduced transport & truckload

// Scope 3: The Power of Norming – ISO Norm 14025 and the EDP



The screenshot shows the Wikipedia article for "Environmental Product Declaration". A yellow highlight covers the introductory paragraph and the "Content of EPDs" section. A text overlay in the highlighted area reads: "Aka „show impact on the environment in standardized way!“".

Environmental Product Declaration

From Wikipedia, the free encyclopedia

An **Environmental Product Declaration** (EPD) is defined by International Organization for Standardization (ISO) 14025 as a Type III declaration that "quantifies environmental information on the life cycle of a product to enable comparisons between products fulfilling the same function."^[1] The EPD methodology is based on the Life Cycle Assessment (LCA)^[2] tool that follows ISO series 14040.^{[3][4][5]}

EPDs are primarily intended to facilitate business-to-business transactions, although they may also be of benefit to consumers who are environmentally focused when choosing goods or services.^{[3][4][5][6]} Companies implement EPDs in order to improve their sustainability goals, and to demonstrate a commitment to the environment to customers.^[6]

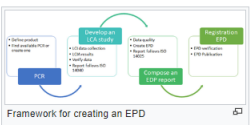
Content of EPDs [edit]

EPD reports are available from The International EPD System^[7] database. Specific content will vary according to the category of the product, but most summarize environmental information on the product in fewer than 50 pages. The text and illustrations are designed to be easily understood by consumers and retailers.

As an example, a 38-page EPD for a pasta product contains sections on the brand and product, environmental performance calculations, information on sustainable wheat cultivation, milling, packaging production, pasta production, distribution, cooking, packaging end-of-life, and summary tables for environmental results in different markets.^[9]

Framework for creating an EPD [edit]

The first step in creating an EPD is defining the product, using the appropriate Product Category Rules (PCR). PCRs are specific rules and requirements verified by an independent, third-party panel. A Life Cycle Inventory (LCI) for the LCA must be verified and from reliable sources (for example, from a manufacturing facility). A Life Cycle Environmental Impact Analysis (LCIA) is performed by an LCA expert using software and a variety of assessment tools.^[9] The EPD is delivered as a document or report following a series of verification reviews; it is then ready for registration and publication.^{[10][3][4][5][6]} [1]



```

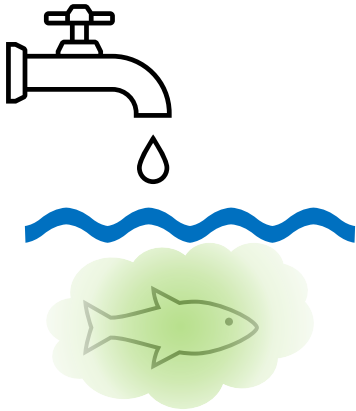
    graph TD
      PCR[PCR] --> LCI[Develop an LCI Profile]
      LCI --> LCIA[Life Cycle Environmental Impact Analysis]
      LCIA --> EPD[Generate an EPD Report]
      EPD --> Reg[Registration Step]
      Reg --> Pub[Publication]
      Pub --> PCR
  
```

Product category rules [edit]

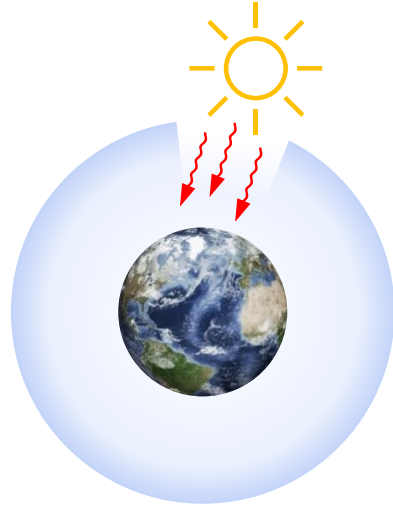
Environmental Product Declarations follow Life Cycle Assessment methodology. However, LCA studies can vary in terms of assumptions and information included. Consequently, the results for products that fulfill the same function may not be consistent with one another.^{[12][13]}

Product Category Rules (PCRs) provide guidance that enables fair comparison among products of the same category. PCRs include the description of the product category, the goal of the LCA, functional units, system boundaries, cut-off criteria, allocation rules, impact categories, information on the use

// Is it just CO2? No – there are more environmental impact indicators to handle...



- Net use of freshwater (m³)
- Eutrophication potential (kg PO4³⁻-eq.)



- Depletion potential of the stratospheric ozone layer OPD (kg CFC 11 eq.)
- Formation Potential of tropospheric ozone POCP (kg C2H4 eq.)



- Acidification potential (kg SO2 eq.)

And more...

- Mineral resource depletion
- Total primary energy usage
- Abiotic depletion potential fossil fuels
- ...

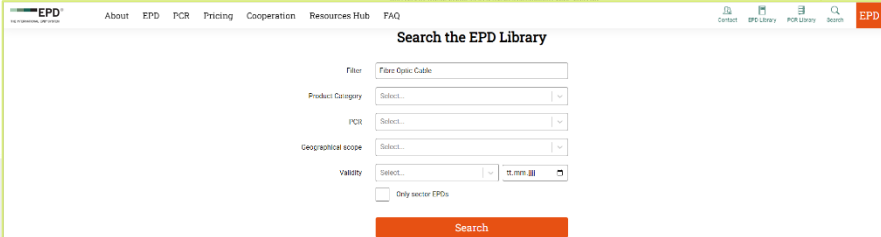
A nightmare to deal with?!?
Well, maybe not. We can help you!

// Scope 3: International EPD System



A short introduction to EPDs

EPDs signal a manufacturer's commitment to measuring and reducing the environmental impact of its products and services. EPD reports measure impacts as a Global Warming Potential (GWP), Acid Equivalent (AE), Eutrophication Potential (EP), and other indicators.



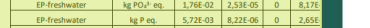
Environmental



Pro
De
In acco
Opt
net
from
Cable

Potential environmental impact – mandatory and voluntary indicators according to EN 15804

Environmental impact results per declared unit (1 km) for FES5RGG000240GN AERIAL CABLE									
Indicator	Unit	AI-A1	AI	CI	C2	C3	C4	D	Module
GWP-fossil	kg CO ₂ eq.	2,57E+02	1,38E+02	0	4,46E+01	0	3,41E+01	0	0
GWP-biogenic	kg CO ₂ eq.	-5,68E+01	5,68E+01	0	1,67E+04	0	5,71E+01	0	0
GWP-luluc	kg CO ₂ eq.	3,33E+01	1,09E+04	0	1,53E+06	0	1,23E+04	0	0
GWP-Total	kg CO ₂ eq.	1,98E+02	1,38E+02	0	4,46E+01	0	3,47E+01	0	0
ODP	kg CFC 11 eq.	2,50E+05	3,20E+06	0	1,03E+07	0	6,14E+08	0	0
AP	mol H+ eq.	1,27E+00	4,78E+02	0	1,54E+				
EP-freshwater	kg PO ₄ ³⁻ eq.	1,76E+02	2,53E+05	0	8,17E+				
EP-freshwater	kg P eq.	5,72E+03	8,22E+06	0	2,65E+				
EP-marine	kg N eq.	2,56E+01	1,53E+02	0	4,95E+				
EP-terrestrial	mol N eq.	2,90E+00	1,69E+01	0	5,45E+				
ADP-mineral	kg Sb eq.	1,18E+02	2,67E+02	0	1,18E+				
ADP-fossil ¹	MJ	6,26E+03	3,96E+02	0	6,31E+				
ADP ²	kg oil eq.	1,44E+02	4,31E+02	0	1,44E+				
ETP-Fw ³	CTUe	4,33E+03	7,85E+01	0	2,53E+				
HTP-C ⁴	kg C ₂₄ H ₁₀ O eq.	1,18E+02	2,67E+02	0	1,18E+				
HTP-nc ⁵	kg C ₂₄ H ₁₀ O eq.	1,18E+02	2,67E+02	0	1,18E+				
Scp ⁶	kg C ₂₄ H ₁₀ O eq.	1,18E+02	2,67E+02	0	1,18E+				



Impact matrix indicators add to the non

Indicator	Unit	ENVIRONMENTAL	ENVIRONMENTAL	ENVIRONMENTAL
GWP-fossil	kg CO ₂ eq.	2,57E+02	1,38E+02	1,23E+06
GWP-biogenic	kg CO ₂ eq.	-5,68E+01	5,68E+01	-1,17E+04
GWP-luluc	kg CO ₂ eq.	3,33E+01	1,09E+04	6,09E+04
GWP-Total	kg CO ₂ eq.	1,98E+02	1,38E+02	6,08E+04
ODP	kg CFC 11 eq.	2,50E+05	3,20E+06	4,20E+08
AP	mol H+ eq.	1,27E+00	4,78E+02	1,54E+00
EP-freshwater	kg PO ₄ ³⁻ eq.	1,76E+02	2,53E+05	5,80E+02
EP-freshwater	kg P eq.	5,72E+03	8,22E+06	1,57E+02
EP-marine	kg N eq.	2,56E+01	1,53E+02	6,20E+01
EP-terrestrial	mol N eq.	2,90E+00	1,69E+01	1,85E+00
ADP	kg Sb eq.	1,18E+02	2,67E+02	2,68E+00
ADP-mineral ¹ and metals ²	MJ	6,26E+03	3,96E+02	6,00E+01
ADP ²	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ³	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁴	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁵	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁶	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁷	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁸	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁹	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ¹⁰	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ¹¹	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ¹²	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ¹³	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ¹⁴	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ¹⁵	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ¹⁶	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ¹⁷	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ¹⁸	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ¹⁹	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ²⁰	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ²¹	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ²²	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ²³	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ²⁴	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ²⁵	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ²⁶	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ²⁷	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ²⁸	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ²⁹	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ³⁰	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ³¹	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ³²	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ³³	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ³⁴	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ³⁵	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ³⁶	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ³⁷	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ³⁸	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ³⁹	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁴⁰	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁴¹	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁴²	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁴³	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁴⁴	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁴⁵	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁴⁶	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁴⁷	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁴⁸	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁴⁹	kg oil eq.	1,44E+02	4,31E+02	1,38E+00
ADP ⁵⁰	kg oil eq.	1,44E+02	4,31E+02	1,38E+00

Environmental impact results shall be managed with caution since the uncertainty of the results is high and the experience with this parameter is limited.

This impact category deals mainly with the potential impact of low dose ionizing radiation. It does not consider effects due to possible nuclear accidents, occupational disposal in underground facilities. Potential ionizing radiation from the soil, from radon is also not measured by this indicator.



// Scope 3: Ecopassport

The screenshot shows the PEP ecopassport website interface. At the top, there's a navigation bar with 'Home / Consult the database' and a 'Member access' button. Below this is a search bar with the text 'Consult the database' and a magnifying glass icon. A message states: 'Find here all the PEPs deposited. You can consult the overview or search product.' Below the search bar, there are filters for 'Organization', 'Trademark', and 'Product Family'. The main content area displays a table of search results with columns for Trademark, PEP Designation, Pub. date, Lang., and PEP Number. The table lists various ABB products like 'FRAMES AND MOUNTING DRIBS OF THE ZENT ITALY WIRING ACCESSORY RANGE', 'Megaflex CPA UPS', 'ABB HiPerGuard MV UPS', 'ABB SureWavS SFC', 'ABB F230 RESIDUAL CURRENT CIRCUIT BREAKERS', 'ABB CO METER', 'ZCLA2133UN101 ZentIt PWR11 socket outlet white', 'ZCLP20000N1101 ZentIt blank 1M plate white', 'ZCLA210200N1201 2-way switch total white', and 'ABB MCCB Tmax XT1 XT3 1M 250A (IT)'. At the bottom of the table, there are navigation buttons: '< Previous', '1', '2', '3', '4', '5', '...', '236', 'Next >'. The number of registered PEPs is shown as 235.



ABB

PRODUCT

General Information

ABB Limited - Power
111 Main North Road
Napier, 4110,
New Zealand
<https://www.abb.com/>

Information contact:
Erik Soljak - erik.soljak@abb.com



PEP ecopassport® - ABBG-0003-V01.01-EN



ABB

The environmental impacts, reported in the following table, are calculated by using SimaPro v9.2 and the databases ecoinvent v3.7.1 and ELCD v3.2.

Environmental Impact Indicators

Parameter	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life
Global warming potential (GWP)	kg CO2 eq.	1.66E+06	8.36E+04	5.0%	1.99E+03	0.1%	1.66E+03
Depletion potential of the atmosphere - non-fluorinated gases (GAP)	kg CFC 11 eq.	7.86E-03	4.35E-03	5.5%	3.79E-04	0.5%	2.69E-03
Acidification potential (AP)	kg SO2 eq.	1.85E+01	1.48E+01	80.3%	2.85E-03	<0.1%	4.32E-04
Eutrophication potential (EP)	kg PO4 eq.	3.19E+01	1.11E+06	3.5%	2.69E+04	<0.1%	8.44E+02
Abiotic depletion potential - Fossil Fuels	kg Sb eq.	1.85E+01	1.48E+01	80.3%	2.85E-03	<0.1%	4.32E-04
Abiotic depletion potential - Fossil Fuels	MJ	3.19E+07	1.11E+06	3.5%	2.69E+04	<0.1%	8.44E+02
Total use of primary energy during the life cycle	kg oil eq.	4.02E+04	8.91E+02	2.2%	1.84E+00	<0.1%	1.39E-01
Net use of fresh water	m3	4.02E+04	8.91E+02	2.2%	1.84E+00	<0.1%	1.39E-01

Impact matrix with indicators adhering to the norm

PEP ecopassport® - ABBG-0003-V01.01-EN

// Scope 3: ISO-Compulsory Environmental Impact Indicator Matrices everywhere!

ENVPEP2009014_V1 - Product Environmental Profile - Galaxy VS UPS 10-100kW with integrated batteries

Compulsory indicators		Galaxy VS UPS 10-100kW with integrated batteries - GVSUPS50KB4D					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	6.92E+01	6.92E+01	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO ₂ eq	2.24E+02	7.84E+01	2.82E-01	0*	1.45E+02	2.66E-01
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	2.60E+01	1.70E+01	6.50E-02	1.01E-02	8.77E+00	7.71E-02
Contribution to global warming	kg CO ₂ eq	8.33E+04	4.83E+04	6.18E+01	3.97E+01	3.48E+04	1.58E+02
Contribution to ozone layer depletion	kg CFC11 eq	3.92E-03	1.63E-03	0*	0*	2.27E-03	1.58E-05
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1.01E+01	2.05E+00	2.01E-02	9.18E-03	7.98E+00	3.07E-02
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.27E+05	6.26E+02	0	0	1.26E+05	0
Total Primary Energy	MJ	1.18E+06	4.84E+05	0	0	6.96E+05	4.84E+00

Impact matrix with indicators adhering to the norm

I. HPE ProLiant DL385 Gen10 Plus

PCF for Volkswagen AG for 4 years product lifetime	1x HPE ProLiant DL385 Gen10 Plus	
	Mean	Std deviation
Enclosure	18.78	5.58
Fan(s)	33.49	62.12
Power Supply Unit(s)	66.33	19.08
Mainboard	481.07	301.54
Solid State Drive(s)	20.05	13.16
Daughter-board(s)	242.04	271.62
Assembly	34.54	51.79
Transport	11466.54	9.25
Use	17.82	1.25
End of Life	12387.79	1.25
Total (kgCO ₂ e):	12387.79	1.25

Impact matrix with indicators adhering to the norm (at least nearly)

legrand
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* Your usual sales office
www.legrand.com

Product Environmental Profile
Home Network - Wireless remote switch

**PEP
Eco
PASS
PORT.**

SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle	Raw material and manufacture	Distribution	Installation	Use	End of Life
Global warming	8,89E-01 kgCO ₂ eq.	8,70E-01 98%	4,18E-03 +1%	5,02E-03 +1%	3,29E-03 +1%	5,71E-03 +1%
Ozone depletion	1,35E-07 kgCFC-11 eq.	1,31E-07 97%	1,61E-11 +1%	3,53E-11 +1%	3,62E-09 3%	1,51E-11 +1%
Acidification of soils and water	1,92E-03 kgSO ₂ eq.	1,81E-03 94%	2,34E-05 1%	2,43E-05 1%	3,89E-05 2%	2,25E-05 1%
Water eutrophication	1,68E-03 kgPO ₄ ³⁻ eq.	1,42E-03 84%	5,14E-06 +1%	2,51E-03 2%	1,67E-06 +1%	2,55E-03 2%
Photochemical ozone formation	2,14E-04 kgC ₂ H ₄ eq.	2,07E-04 97%	1,59E-04 +1%	1,73E-04 +1%	2,71E-04 1%	1,33E-04 +1%
Depletion of abiotic resources - elements	2,34E-04 kgSb eq.	2,34E-04 100%	1,79E-10 +1%	2,20E-10 +1%	6,64E-09 +1%	3,81E-10 +1%
Total use of primary energy	1,37E+01 MJ	1,34E+01 98%	7,04E-02 +1%	4,87E-02 +1%	3,56E-02 +1%	6,45E-01 +1%
Net use of fresh water	1,88E-02 m ³	1,87E-02 100%	4,44E-07 +1%	1,58E-06 +1%	4,09E-05 +1%	5,71E-04 +1%
Depletion of abiotic resources - fossil fuels	1,19E+01 MJ	1,16E+01 98%	7,00E-02 +1%	4,79E-02 +1%	2,89E-02 +1%	8,44E-02 +1%
Water pollution	1,59E+02 m ³	1,56E-02 99%	8,19E-01 +1%	1,74E-01 +1%	3,38E-01 +1%	4,68E-01 +1%
Air pollution	2,50E+01 m ³	2,51E-01 99%	2,51E-01 +1%	4,07E-01 +1%	2,89E-01 +1%	2,51E-01 +1%

Impact matrix with indicators adhering to the norm

ABBG-00002-V01.01 -EN-

Impact matrix with indicators adhering to the norm

// Scope 3 Support: FNT Environmental Impact Management AddOn

Real FNT modification.
No mock-up.
(with the tiny exception of the leaf indicator)

Object Management x

Datei Bearbeiten Extras Ansicht Hilfe

Suche | Object: PowerEdge-R630_8HD_2PCI x

Object: PowerEdge-R630_8HD_2PCI

Object navigation

- Object data
- Technical data
- operations data
- Environmental Profile (Sustainability)**
- CMS
- IP data
- Port data
- Slot data
- Services
- Reference drawing
- Assignment list
- CI Graphics (0)
- Accessories
- Lifecycle
- History
- Attachments
- System attributes

7 records

Indicator Type*	Indicator*	Unit*	Total	Manufacturing	Distribution	Installation	Use	End of life
Resources use	Net use of freshwater	m3	127000.000	680.000			126000.000	
Resources use	Total Primary Energy	MJ	1180000.000	484000.000	874.000		695000.000	1590.000
Impact Indicator	Contribution to mineral resources depletion	kg Sb eq	6920.000	48300.000	6180.000	3970.000	34800.000	15800.000
Impact Indicator	Contribution to the soil and water acidification	kg SO2 eq	224.000	78.400	0.282	0.000	145.000	0.266
Impact Indicator	Contribution to water eutrophication	kg PO4 3- eq	26.000	17.000	0.650	0.101	8.770	0.771
Impact Indicator	Contribution to global warming	kg CO2 eq	83300.000	48300.000	61.800	39.700	34800.000	158.000
Impact Indicator	Contribution to ozone layer depletion	kg CFC11 eq	0.003	0.001				

Total Device

7 records

Indicator Type	Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life
> Resources use	Net use of freshwater	m3	127000.000	680.000			126000.000	
> Resources use	Total Primary Energy	MJ	1180000.000	484000.000	874.000		695000.000	1590.000
> Impact Indicator	Contribution to mineral resources depletion	kg Sb eq	6920.000	48300.000	6180.000	3970.000	34800.000	15800.000
> Impact Indicator	Contribution to the soil and water acidification	kg SO2 eq	224.000	78.400	0.282	0.000	145.000	0.266
> Impact Indicator	Contribution to water eutrophication	kg PO4 3- eq	26.000	17.000	0.650	0.101	8.770	0.771
> Impact Indicator	Contribution to global warming	kg CO2 eq	84300.000	49260.000	101.800	41.700	34805.000	163.000
> Impact Indicator	Contribution to ozone layer depletion	kg CFC11 eq	0.003	0.001				

// Scope 3 Support: FNT Environmental Impact Management AddOn

Object Management x
 Datei Bearbeiten Extras Ansicht Hilfe
 Internal - Intern

Object: PowerEdge-R630_8HD_2PCI x
 Object: PowerEdge-R630_8HD_2PCI

Object navigation

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Impact Indicator	Contribution to ozone layer depletion	kg CFC11 eq	0.003	0.001				

Impact matrix with indicators adhering to the norm: Easy initializing per type inheritance, dependent dropdown-logic for quality assistance with manual intake

Indicator Type	Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life
> Resources use	Net use of freshwater	m3	127000.000	680.000			126000.000	
> Resources use	Total Primary Energy	MJ	1180000.000	484000.000	874.000		695000.000	1590.000
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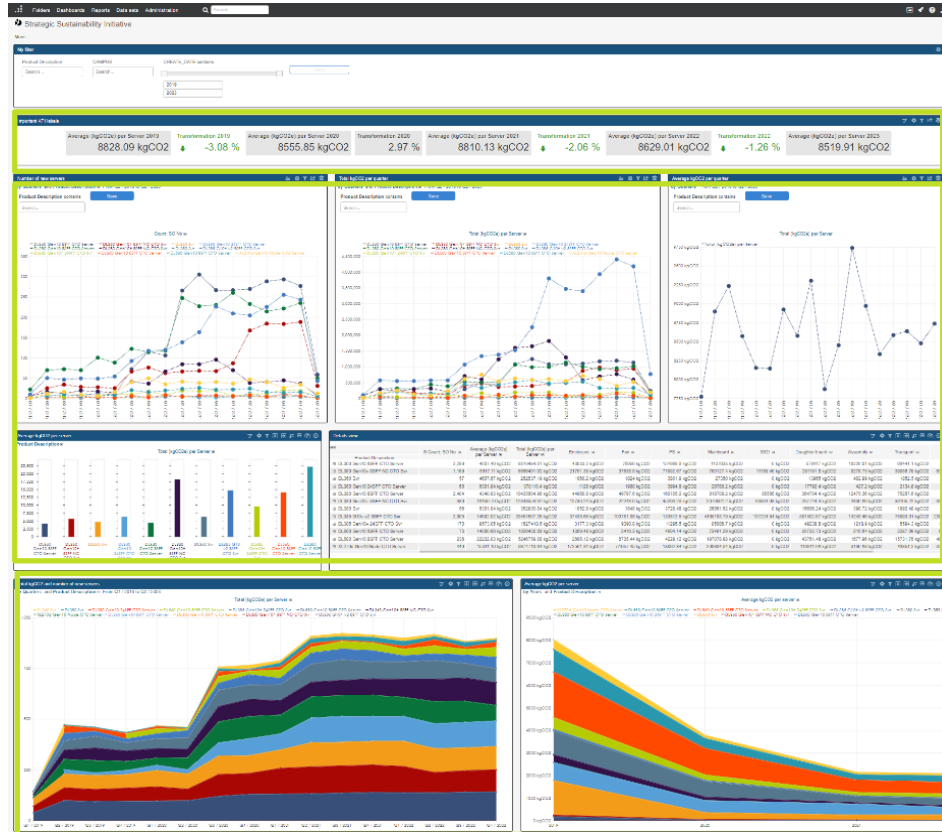
Impact matrix summary functionality for complex devices with n-level parent-child relations (chassis – card – subcard)

Attachment functionality for original EPD by hardware supplier

With type inheritance from master data it's designed for minimal, near-zero administrative effort!

// Scope 3 Support: FNT Environmental Impact Management AddOn Dashboard

Real FNT Analytics Dashboard. No mock-up.

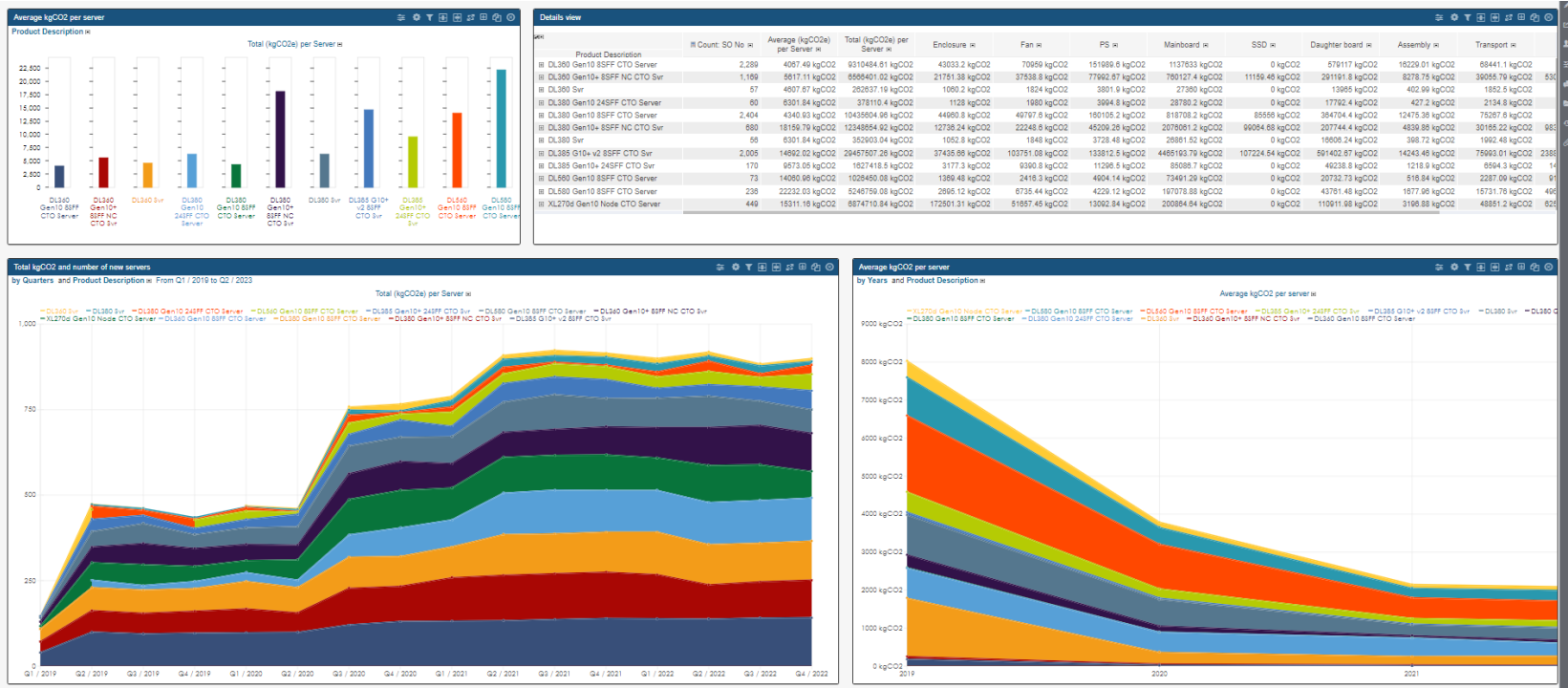


Top Level KPIs for easy quick-view on progress!

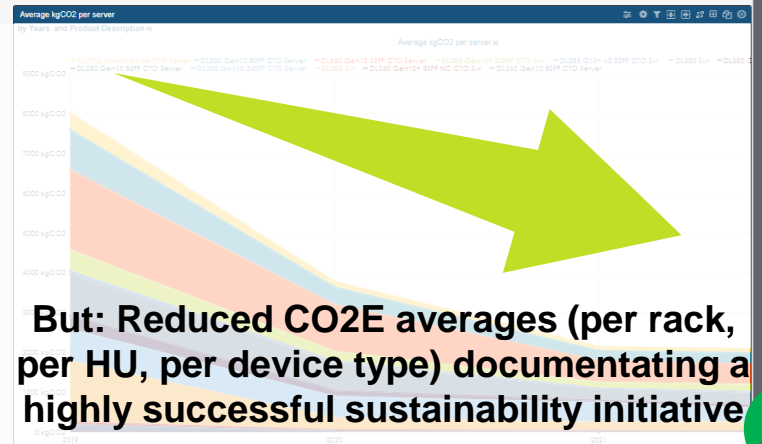
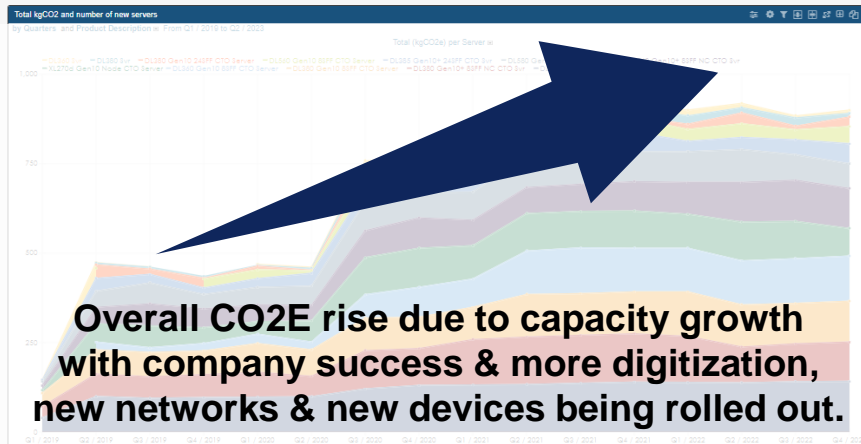
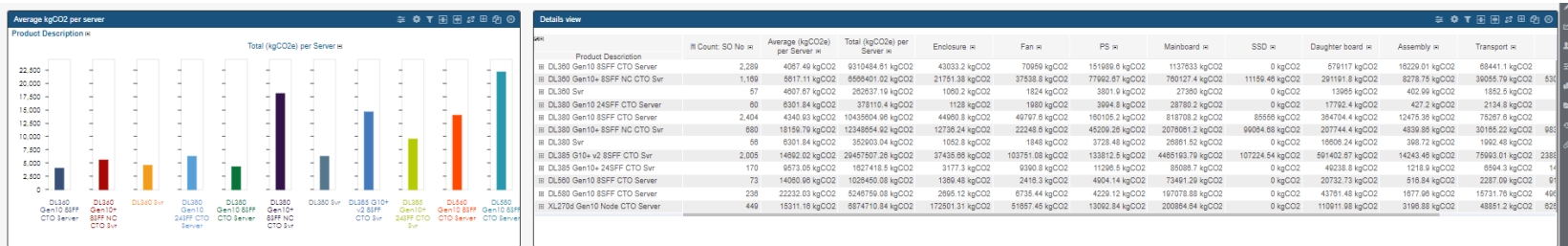
Comparative analysis and insights along every data dimension available in FNT Command (mandators/clients, regions, countries, datacenters, campus & building structures, manufacturers, product families, classes, types, functions, areas of responsibility,...)

Proof of Progress in growth scenarios!

// Scope 3 Support: FNT Environmental Impact Management AddOn Dashboard



// Scope 3 Support: FNT Environmental Impact Management AddOn Dashboard



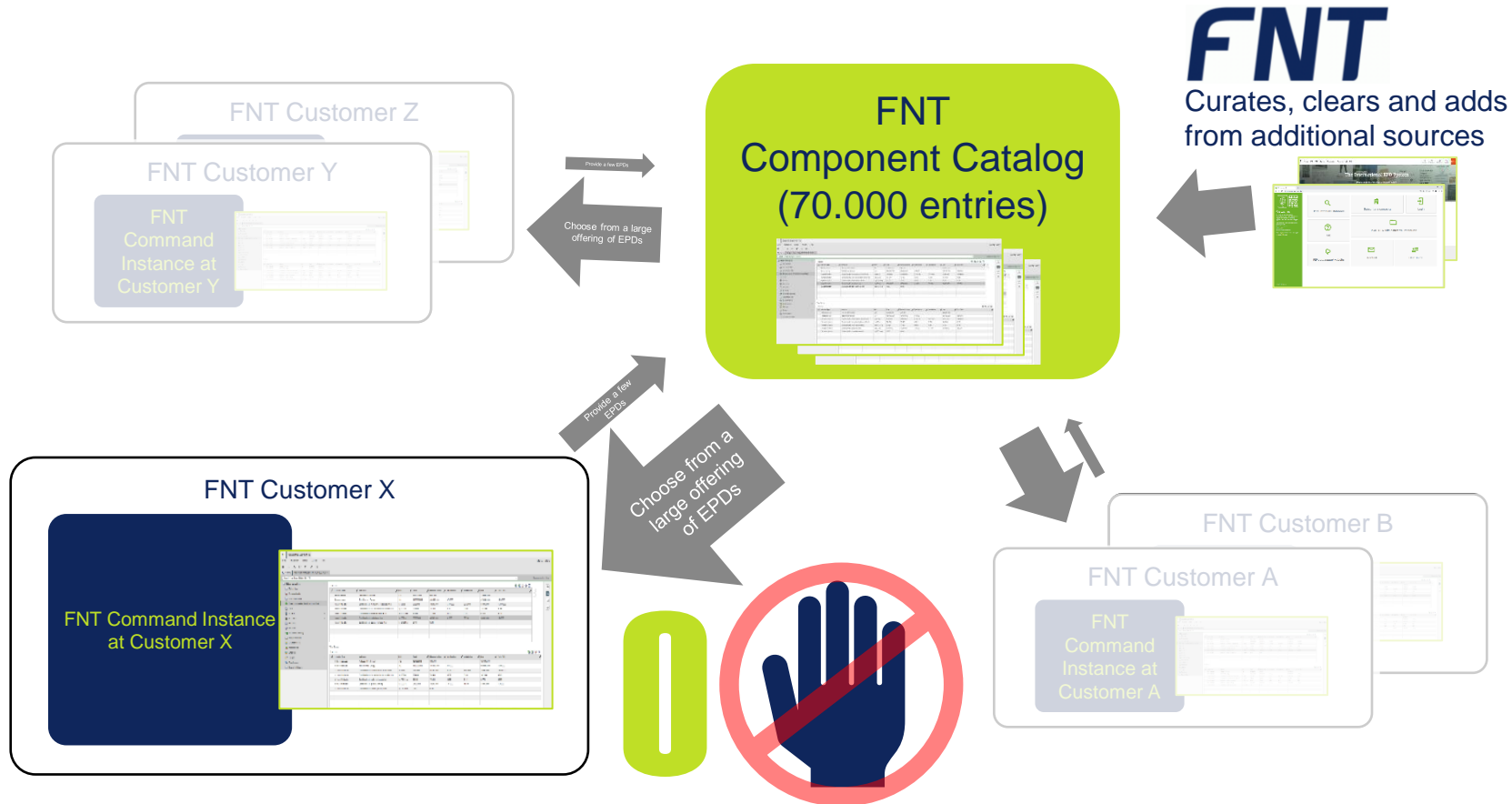
With the FNT Command Environmental Impact Management AddOn in place this FNT Analytics Dashboard works out-of-the-box in turnkey fashion!



// The bigger capability picture – providing even more business value

Making things even easier for the customer, you! – EPDs in the FNT Component Catalog. Simply download.

// Dear customer! If you give a little – you'll get a **LOT** back!



// 4 key takeaways

- FNT Solutions help you to actually become truly more green in IT Infrastructure Operations in absolute numbers.
- FNT Solutions will contribute to your CSR/ESG compliance significantly, fast and out-of-the-box.
- FNT Solutions enable you to save cost and support you in
 - becoming eligible to tax exemption programs.
 - retaining access to refinancing funds requiring sustainability.
 - making your infrastructure less power-hungry by supporting the transfer towards „greener“ products.
- FNT Solutions allow you to manage CO2 documentation of your infrastructure device & cabling landscape and monitor an important aspect of decarbonization progress with minimum effort.



// Anything left on your mind about this?





Thank you!

www.fntsoftware.com