



Data Center Forum Helsinki - Why Efficiency

2025

*Presented by Conor Molloy, Senior Project Manager
at Bureau Veritas*



BUREAU
VERITAS

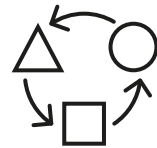
ABOUT ME



**CONOR
MOLLOY**

Senior Project Manager,
Bureau Veritas Group

**30+ years
in Hi-Tech
industry**



Sectors

Data centers

*Energy Efficiency &
Green Energy*

Nano Tech

Semi-conductors

Pharmaceuticals

Then & Now

*Senior Project
Manager*

Senior Engineer

*Construction
Manager*

Electrical Technician

WHY IS ENERGY EFFICIENCY THE MOST TALKED ABOUT SUBJECT WITHIN THE DATA CENTER INDUSTRY?

Here are some facts based on the outcome of more than 3 years of independent verification

1. Recently implemented EU Legalisation on Energy Efficiency now requires Data Center Operators within the European Union to comply with,

EU Energy Efficiency Directive EU/2002/91/EC



which introduces a series of measures to help accelerate energy efficiency, including embracing the “energy efficiency first” principle in the energy and non-energy policies.

EU Energy Efficiency Directive amending Regulation (EU) 2023/855 (cast),



for Data Centers

EU Taxonomy Commission Delegated Regulation EU 2021/2139



Activity 8.1, Data hosting and processing

2. DATA CENTERS ARE VERY ENERGY CONSUMING VAST AMOUNTS OF ENERGY FOR THE OPERATION OF IT EQUIPMENT AND SUPPORTING UTILITIES

- Electrical Power
- Cooling Energy
- In some cases Water consumption

3. DATA CENTERS ARE VERY ENERGY INTENSIVE PRODUCING VAST AMOUNTS OF ENERGY

- Heat Energy is produced during the IT equipment Cool process can be harnesses and reused externally

4. DATA CENTERS ARE VERY ENERGY INTENSIVE STORING VAST AMOUNTS OF ENERGY

- Stored Energy in form of Battery back up systems can be utilized for short periods of time to feed back into National Power Grids systems to support grid stabilization which is now an essential requirement due to the renewable energy mix (Wind and Solar)



5. DATA CENTERS BY DESIGN AND USE OF TECHNOLOGY AND BECOMING MORE EFFICIENT

- Energy Efficient Equipment
- Efficient Environmental Controls systems
- Utilization of “Free Cooling”
- Utilization of Heat Energy
- Efficient lighting system
- Efficient building envelopes
- Higher Power Density per square meter

6. DATA CENTERS ENERGY REUSE

**District heating
systems**



Green Houses



Leasure centers



7. DATA CENTERS OPERATORS PROACTIVE APPROACH TOWARDS SUSTAINABILITY AND ENERGY EFFICIENCY MEASURES

- Climate Neutral Data Center Pact (CNDCP)

QUESTIONS?

THANK YOU!



**CONOR
MOLLOY**

Senior Project Manager,
Bureau Veritas Group
Nordic region

conor.molloy@bureauveritas.com



**BUREAU
VERITAS**

Shaping a World of Trust

WWW.BUREAUVERITAS.COM

