



Fear & Loathing in the Data Centre Sector

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- MD - Carbon3IT Ltd
- Technical Director – National **Data Centre** Academy
- Vice Chair British Computer Society - **Green IT SG**
- BSI TCT7/3 Committee – Chair EN 50600 & ISO/IEC 30134 **Data Centre** Standards
- EU Code of Conduct for **Data Centres (Energy Efficiency)** **Joint Author/Reviewer/Committee Member**
- Data Centre Alliance – Chair SIG **Data Centre Energy Efficiency & Committee Member Sustainability**
- DCD CEEDA/CEESDA (Certified **Energy Efficient (and Sustainable) Data Centre Award**) Global Lead Assessor – Coming Soon!
- ISO 50001 **Energy Management** Systems Lead Auditor, ISO 22301 Business Continuity Management Systems Lead Auditor
- Certified **Data Centre Audit** Professional (CDCAP™) & Certified **Data Centre Sustainability** Professional (CDCSP™)
- Advisory Board - **Sustainable Digital Infrastructure Alliance**
- **iMasons** Sustainability Committee



Fear...

- Energy Costs
- 17p per kWh – Jan 2022
- **86p** per kWh – Nov 2022

- Sustainability



Data Centre Energy Demands – EU

Q. How much energy do “data centres” use across the UK/EU?

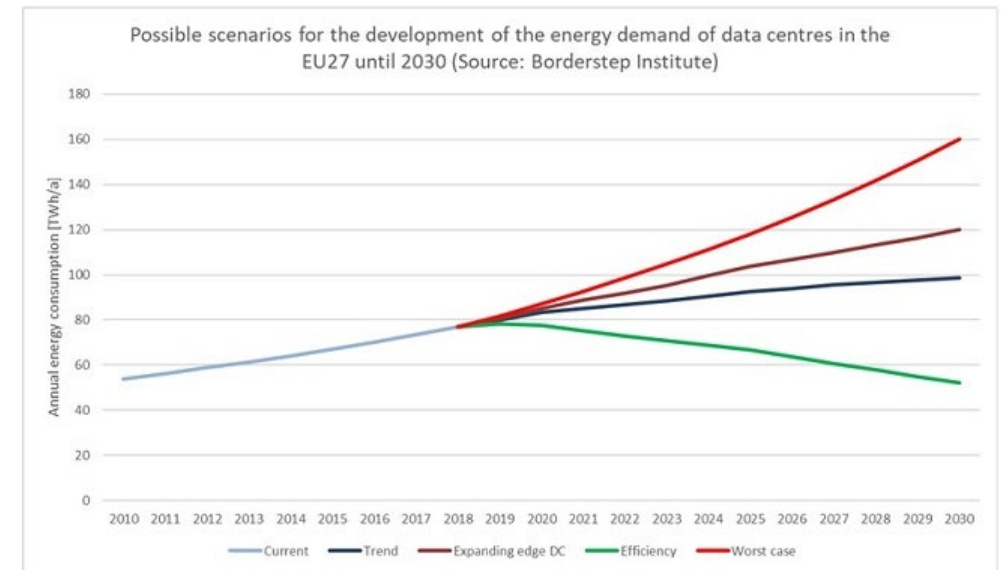
A. We don’t “really” know, but...

What we (in UK) know is that in the last CCA reporting period, data centres used...

12TWh

And the EU estimates **80TWh**.

The graph represents possible growth or reductions under various scenarios





Loathing...

- Data Centre Legislation
- Climate Neutral Data Centre Pact (CNDCP)
- iMasons Climate Accord



EU Legislation

EU Taxonomy

Corporate Sustainability Reporting Directive

Energy Efficiency Directive

EU Code of Conduct for Data Centres (Energy Efficiency)



EU Taxonomy

- In order to meet the EU's climate and energy targets for 2030 and reach the objectives of the European green deal, it is vital that we direct investments towards sustainable projects and activities.
- The current COVID-19 pandemic has reinforced the need to redirect money towards sustainable projects in order to make our economies, businesses and societies – in particular health systems, more resilient against climate and environmental shocks.
- To achieve this, a common language and a clear definition of what is 'sustainable' is needed. This is why the action plan on financing sustainable growth called for the creation of a common classification system for sustainable economic activities, or an "EU taxonomy".



EU Data Centres Energy

- EU Taxonomy
 - Mentions EU Code of Conduct for Data Centres (Energy Efficiency)
 - “Expected” BPs and those at Level 5 (106) PLUS...
 - ISO/IEC 30134 OR EN 50600-4-X KPIs (PUE, REF, ITEEsv, ITEUsv, ERF, CER, CUE and WUE)
 - Independent Audit every 3 years
- TIC Council
 - Drafting Committee - Audit Process
 - EU-JRC Steering Committee
- Corporate Sustainability Reporting Directive
- Energy Efficiency Directive



Suggested Actions

Don't Panic!

Get up to speed with the **EU Taxonomy** regulations

Conduct an **Energy/EUCOC Review** in your DC or for your DC customers

Take a training course on the **EUCOC** (NDCA!)

Use an External EUCOC specialist consultant to review and advise

Start calculating the **KPIs**

Consider adding them to your **BMS/EMS/DCiM** dashboard

There will be a "cost", but you could also save, budget for around £20-50k per annum.

Prepare for "Audit"

Don't Panic!



Thank You



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