EURECA Training, DCMM & GDPR





Where to start improving your datacenter and what had GDPR to do with this?

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Certios timeline 2008-2017























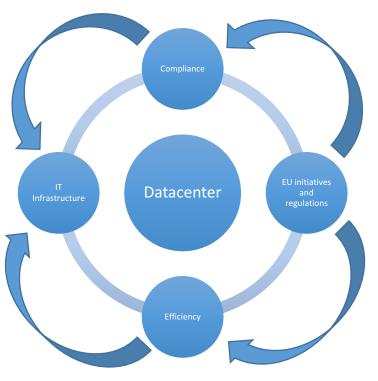
Different aspects?



- Physical security
- Extra services

- EURECA Tool
- EURECA Training

consolidation, hardware refresh, increased utlization



- GDPR
- EURECA Training

- EU CoC
- EED
- EURECA Training



Agenda



Introduction EURECA Project



- Structure of the EURECA training
- Introduction EURECA DCMM Module
- Introduction EURECA Tool
- Datacenters and GDPR



Introduction EURECA project



EURECA project www.dceureca.eu

- H2020
- Objectives
 - Procurement / PPI
 - Datacentre energy efficiency awareness
 - EURECA Training and Tool
 - EURECA is EURECA is currently supporting consolidation, new build and retrofit data centre projects
 in various European countries, with focus on public procurement for innovation (PPI). Additionally,
 EURECA is supporting the development of European standards, best practices and polices related to
 energy efficiency in data centres and green public procurement by providing the scientific evidence
 and data.
- Status (Feb '18 ready, 12 workshops, Training modules)



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Datacenters and GDPR



Structure of the EURECA training



EURECA Training Toolkit

Procurement

Technical

Module 1: PPI for Public Sector Procurers and ICT Managers

Module 2: Business Case Development

Module 3: Legislation and Policies

Module 4: Procurement Strategy

Module 5: Tendering

Module 6: Data Centre Contracts and Risks

Module 7: Data Centre KPI's and Standards

Module 8: The EU Code of Conduct for Energy Efficiency in Data Centres

Module 9: The Data Centre Maturity Model

Agenda

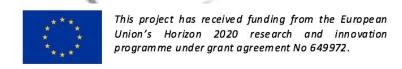


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EURECA Training

Module 9: The Data Centre Maturity Model

Target Audience: Technical/DC





Horizon 2020 European Union funding for Research & Innovation



- Starting questions
- Structure of the EURECA courses
- Learning outcomes
- Course contents
 - Introduction EURECA Project
 - The Green Grid
 - DCMM
 - The EURECA tool
 - DCMM and the EURECA tool
 - Understanding DCMM to use for your priorities
- Starting questions to be answered
- References and further reading

The same structure for each of the 9 EURECA modules available



- Provides provides clear goals and direction for improving energy efficiency and sustainability across all aspects of the data centre
- Model to benchmark and inspire for next improvements (road maps)
- Not prescribing technology (signposting what to do, not how to do it)
 - Power
 - Cooling
 - Facilities
 - Management
 - Compute
 - Storage
 - Network
 - Other IT



https://youtu.be/1Q8zNjEitS8







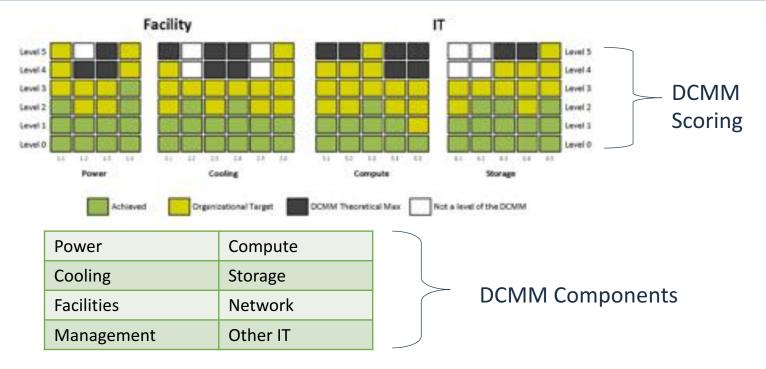
Commission

Investment (Francis): New & Resource

European Union funding

for Research & Innovation





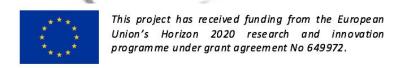
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Datacenters and GDPR



EURECA Tool

Target Audience: Technical/DC





Horizon 2020 European Union funding for Research & Innovation

Version 2.0, 28 July 2017, Contact: https://www.dceureca.eu

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Introduction EURECA Tool



- DCMM
 - Assessment of your data centre(s) and ambitions using the Equalizer tool
 - Identify energy savings opportunities
- EURECA Tool
 - Use the EURECA tool
 - to identify relevant market parties in Market Directory
 - to find product and services solutions

See how public organisations others did it (available, exemplary case

studies)



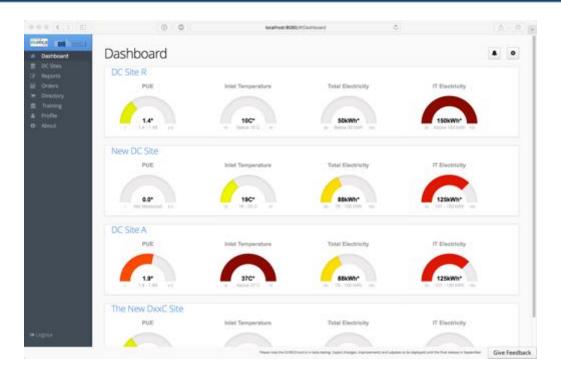
Introduction EURECA Tool



- To support public procurement, PPI
- Benchmark data centre, supports multiple and dispersed data centres
- Reports energy efficiency recommendations
- Identifying energy saving opportunities
- Identifying need for help areas
- "Should I stay or should I go?" own DC vs. ext. alternatives
- Identifies input for tenders (certifications and or standards)
- Identifying market players, and Product and services directory.
- Please see: https://tool.dceureca.eu.







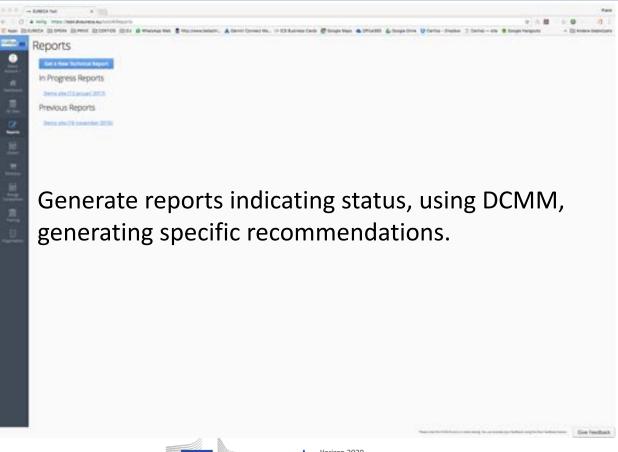
Having the overview over one or more Data centres, PUE, temperature, etc.





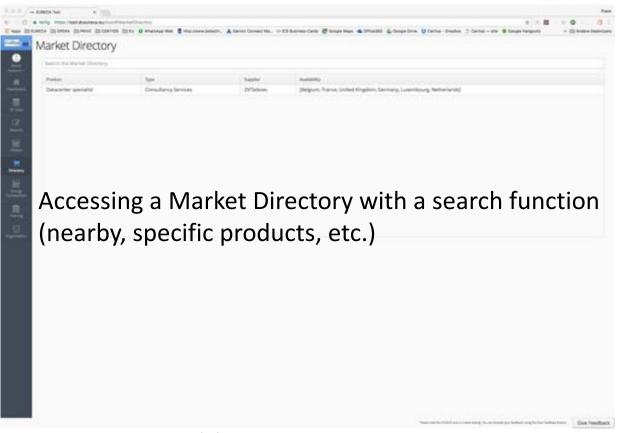




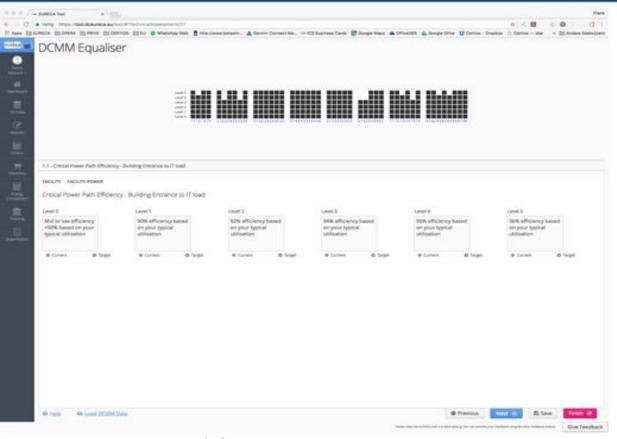


European

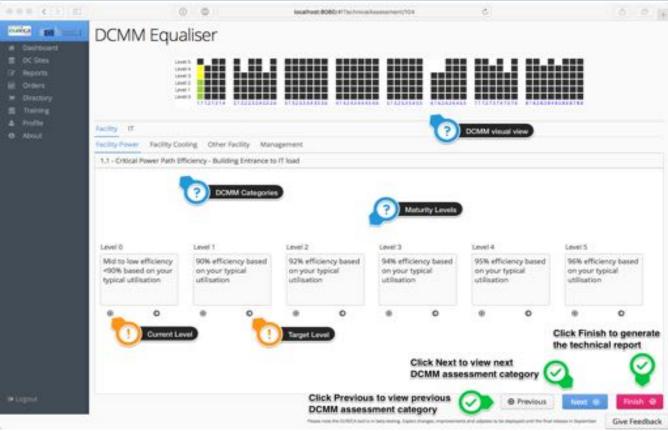




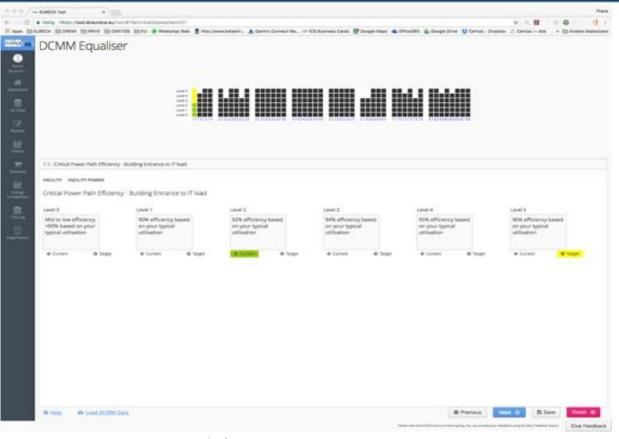








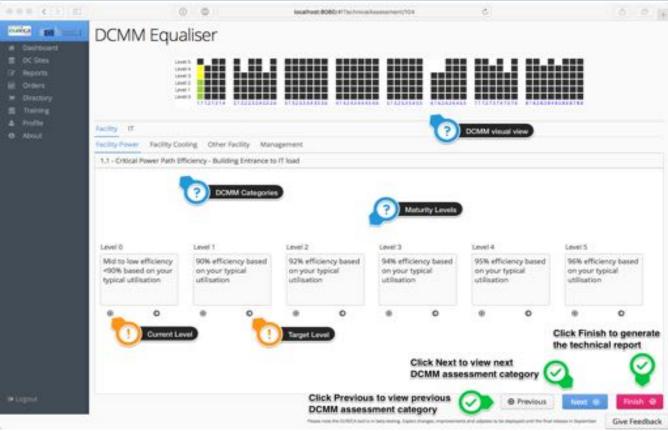




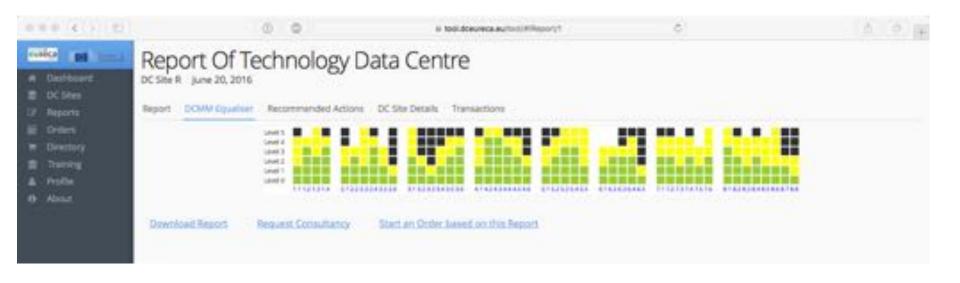
















Report Of Technology Data Centre

Demo site 16 november 2016

DCMM Equaliser

Recommended Actions DC Site Details Triggers

This report is generated after the EURECA tool has been used. In order to improve the energy efficiency of your internal data centre facilities, you were asked

The energy efficiency of the internal data centre can be improved.

There are several ways how to deal with this situation which are described in the following pages.

In addition, there may be persons within your organization that could provide the missing information. If this is not the case:

- . EURECA is providing training modules, it might be good to attend one or more of these and getting the necessary information to complete the data energy efficiency of your internal data centre.
- EURECA offers a market directory, also listing experts in your region. These listed consultants can be selected on several values (proximity, EURECA kn one of these external parties to help you to use the EURECA tool and start the energy efficiency improvement of your data centre.

The purpose of this report and the aim of EURECA is to inform help you with your next step to an energy efficient data centre.

New or updated content is therefore welcomed and you are invited to submit a notification for future inclusion in the EURECA tool framework.

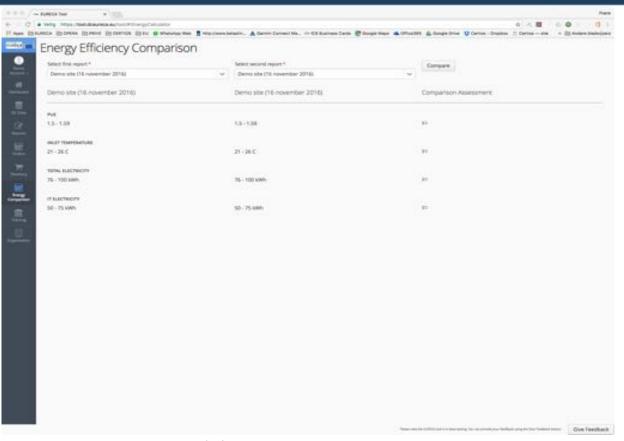


2. Request Consultancy



x Delete Report







Evaluate success:

 Use the DCMM Equalizer to benchmark your current level of energy efficient and sustainable data centre

Decide next steps:

Set realistic targets for improvement



- Plan the improvement:
 - Knowing what to do, find out how to do it in your specific situation (technology, organisation)
 - Schedule activities to execute improvements
- Implement the improvement.





- Decide next steps:
 - Set realistic targets for improvement:
 - Costs vs. savings?
 - Organisational ability (for risk)?
 - Innovator or follower?
 - PPI or procure proven concepts?



Commission

for Research & Innovation

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Datacenters and GDPR



The GDPR replaces the Data Protection Directive 95/46/EC and is designed to support the single market, to harmonize data privacy laws across Europe, to protect and empower European Union (EU) citizens' data privacy and reshape the organizations approach data privacy for EU citizens wherever they work in the world.





Datacenters and GDPR



- The GDPR requires that you have a process for regularly testing, assessing and evaluating the effectiveness of technical and organisational measures for ensuring the "security of the processing"
- To most, 'security' here can refer to the need to defend against cyber criminals.
 However, to the data centre manager, 'security' will refer to protection against power outages, network disruptions and natural disasters as well
- Data processors (i.e. datacenters) will also have significantly more legal liability under the GDPR than was the case under the prior Directive.

Source: https://7safe.com/audit-and-compliance/general-data-protection-regulation-(gdpr)



Prepare for GDPR



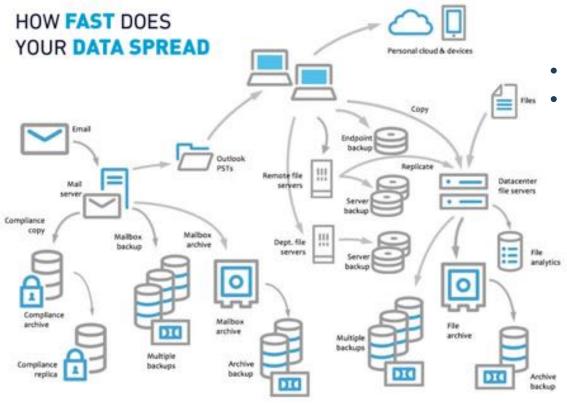
- **Review privacy notices and policies -** GDPR compliant? Do they provide for the new rights individuals have?
- Prepare/update the data security breach plan (PIA) To ensure new rules can be met if needed.
- Audit your consents Are you lawfully processing data? Will you be permitted to continue processing data under the GDPR?
- Set up an accountability framework e.g., monitor processes, procedures, train staff.
- **Appoint a DPO** where required.
- Consider if you have new obligations as a processor Is your contractual documentation adequate? Review contracts and consider what changes will be required.
- Audit your international transfers Do you have a lawful basis to transfer data?



Source: http://www.datacenterdynamics.com/content-tracks/security-risk/prepare-for-the-eu-gdpr/98024.fullarticle

Need to know where data sits!



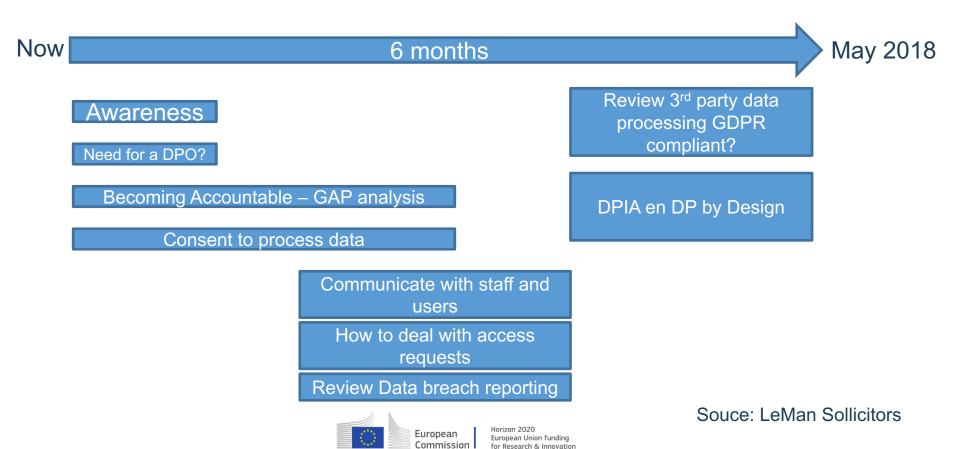


- "Right to be forgotten"
- Free inquiries what data organization has on me (30 days)

Source: Commvault

Make a plan if you haven't got one, now





Chances for Datacenter industry



GDPR Compliance as a Product Feature/Selling point

By selling:

- Increased physical data security
- Conducting risk assessments
- A compliance track record
- Being able to identify what data was affected by a data breach within a 72-hour window
- Functionality to allow the right to erasure for datacenter storage of personal data

Source: http://www.datacenterknowledge.com/security/what-europe-s-new-data-protection-law-means-data-center-operators



Never a dull moment - summary



Take away when you are involved in the datacenter industry:

Please have a further look at the EURECA Training

- •9 training modules available on website: https://www.dceureca.eu/
- •It's free, after registration
- GDPR for datacenter industry

Training Certificates



1) Register/login: https://www.dceureca.eu

2) Scan code below and request certificate (code and URL are also on the back of the leaflet)



https://www.dceureca.eu/?page_id=3055





Thank you





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