ICTFOOTPRINT.EU

European Framework Initiative for Energy & Environmental Efficiency in the ICT Sector

Cloud Expo Europe

ICTFOOTPRINT.eu, a web platform to help organisations in measuring and reducing their ICT carbon footprint

Deloitte.

30th November 2016, Paris (France)

Context of the ICT sector

- The ICT sector currently accounts for 8-10% of the European electricity consumption and up to 4% of its greenhouse gas (GHG) emissions

- Energy consumption and GHG emissions from the ICT sector are growing rapidly as a result of major economic and societal changes such as the uptake of network connected devices and the growth of online services

- Although some ICT players do not calculate nor consider their environmental impact in the business related decisions, this information would reveal to be of high interest to them. Increased competitiveness, higher energy efficiency, economic savings or better image among the public are among the main identified benefits.

Presentation of ICTFOOTPRINT.eu

- A consortium of 3 partners…

Trust-IT Services
Communicating ICT to markets

Deloitte.

EUROCITIES

- … supported by an **External Advisory Group** (EAG)
  - Anders Andrae (Huawei Technologies)
  - Mauro Boldi (Telecom Italia)
  - Emma Fryer (TechUK)
  - Osamu Namikawa (Hitachi)
  - Dominique Roche (ETSI)
  - Lance Rütimann (The Green Grid)
  - Daniel Schien (University of Bristol)
  - Andie Stephens (Carbon Trust)
  - Jaak Vlasveld (ECOS)
  - Thomas Wilson (Green IT Amsterdam)

Presentation of ICTFOOTPRINT.eu

The ICTFOOTPRINT.eu project aims at **raising awareness** on metrics, methodologies and best practices in measuring the energy and environmental efficiency of the ICT sector, to facilitate their broad deployment and uptake.

A wide variety of services is available on the platform, including:

- **Factsheets of ICT methodologies** https://www.ictfootprint.eu/en/ict-standards/sdos-ict-standards
- **Webinars** https://www.ictfootprint.eu/en/webinar
- **Marketplace** https://www.ictfootprint.eu/marketplace
- **Helpdesk** https://www.ictfootprint.eu/en/faq-page

ETSI 203 199 Factsheet

You are here: Home » ETSI 203 199 Factsheet

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How do I use this methodology? Ask for support!

ETSI	**ETSI 203 199: Environmental Engineering (EE); Methodology for environmental Life Cycle Assessment (LCA) of Information and Communication Technology (ICT) goods, networks and services**	
Name of Initiative/Methodology	Environmental Engineering (EE); Methodology for environmental Life Cycle Assessment (LCA) of Information and Communication Technology (ICT) goods, networks and services	
Link to the latest published version	ETSI ES 203 199 (02/2015): Version 1.3.1 203199v010301p.pdf	
Developed by	The European Telecommunications Standards Institute (ETSI) The International Telecommunication Union (ITU)	
History and Status	○ Work started in 2014 and finished in 2015 ○ Published in February 2015	
Involved companies / parties	○ Nokia Siemens Networks ○ Alcatel-Lucent ○ Ericsson ○ Huawei Technologies Co. Ltd.	
Scope	✖ Organisation env. accounting ✖ Scope 1 ✖ Scope 2 ✖ Scope 3	✔ Product env. assessment ✔ Life cycle approach ✖ Use phase only
	✔ GWP ✔ Energy (focus on secondary energy)	✔ Other environmental impacts

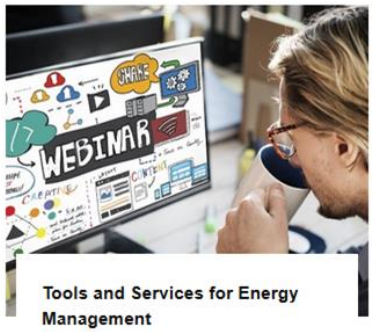
18 ICT factsheets are currently available on our platform and may be used by SMEs and policy makers to understand and measure their ICT carbon footprint using standards, procedures and metrics

Webinars

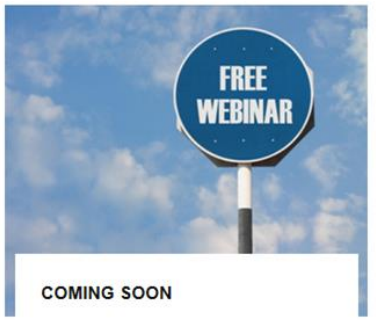
You are here: Home » Events » Webinars

12 ICT Webinars for information, training and support: free of cost and open to all

How Energy Efficiency Can Lead Your Business' Growth

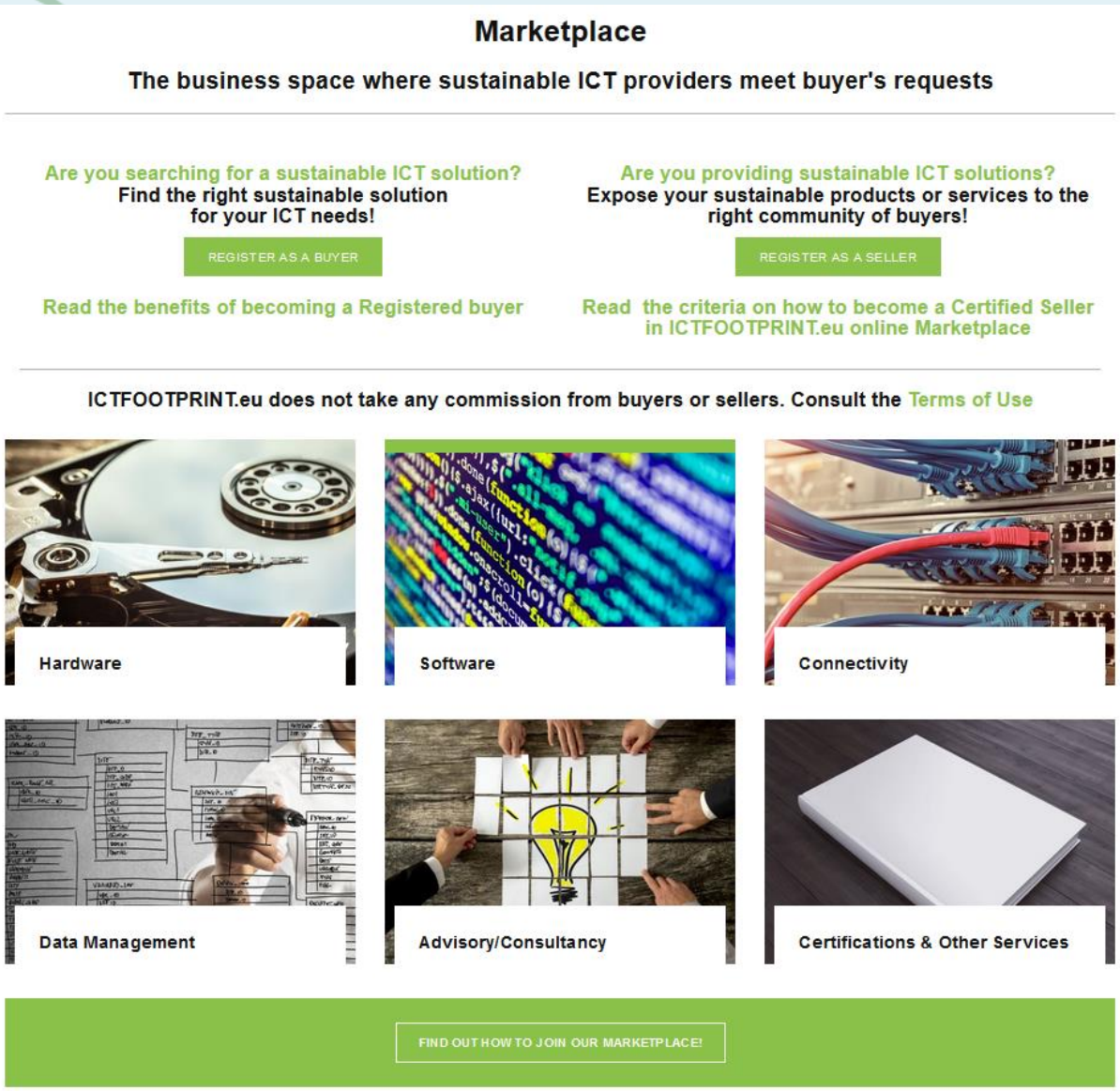


Tools and Services for Energy Management

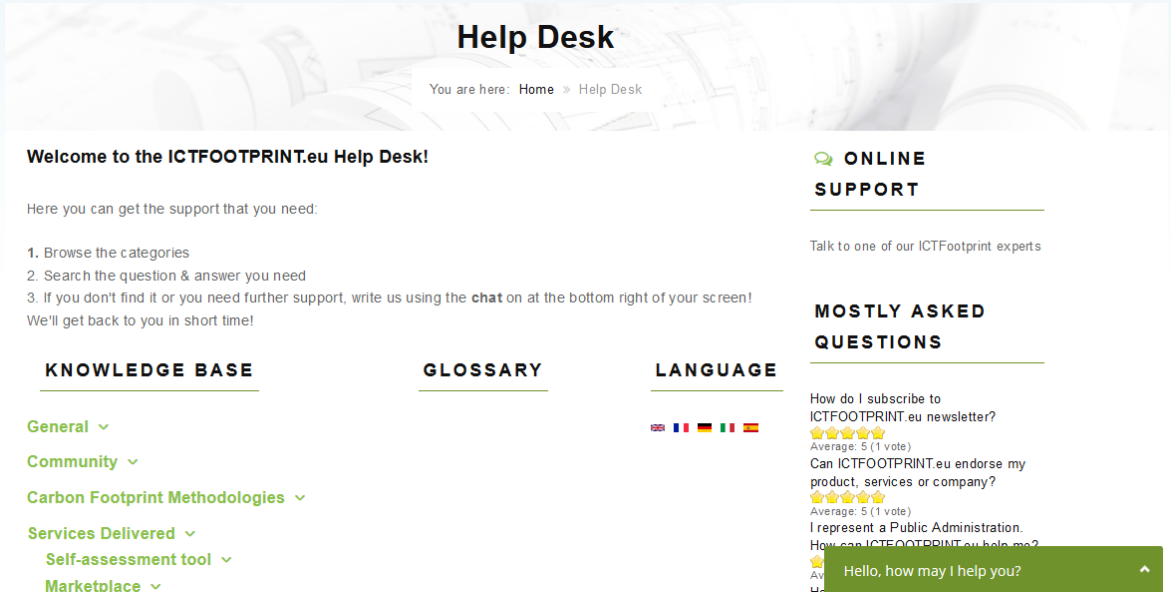


COMING SOON

2 webinars (among 12) were presented since the beginning of the ICTFOOTPRINT.eu project. All content is available online, along with other communication material



Interested parties started registering on the marketplace as **buyers or sellers of ICT energy and resource sustainable solutions.**



General guidance and glossary may be found in 5 languages on our Helpdesk page. Online support will provide assistance to organisations interested in using these methodologies

Presentation of ICTFOOTPRINT.eu

Other useful services will be available in the coming months:

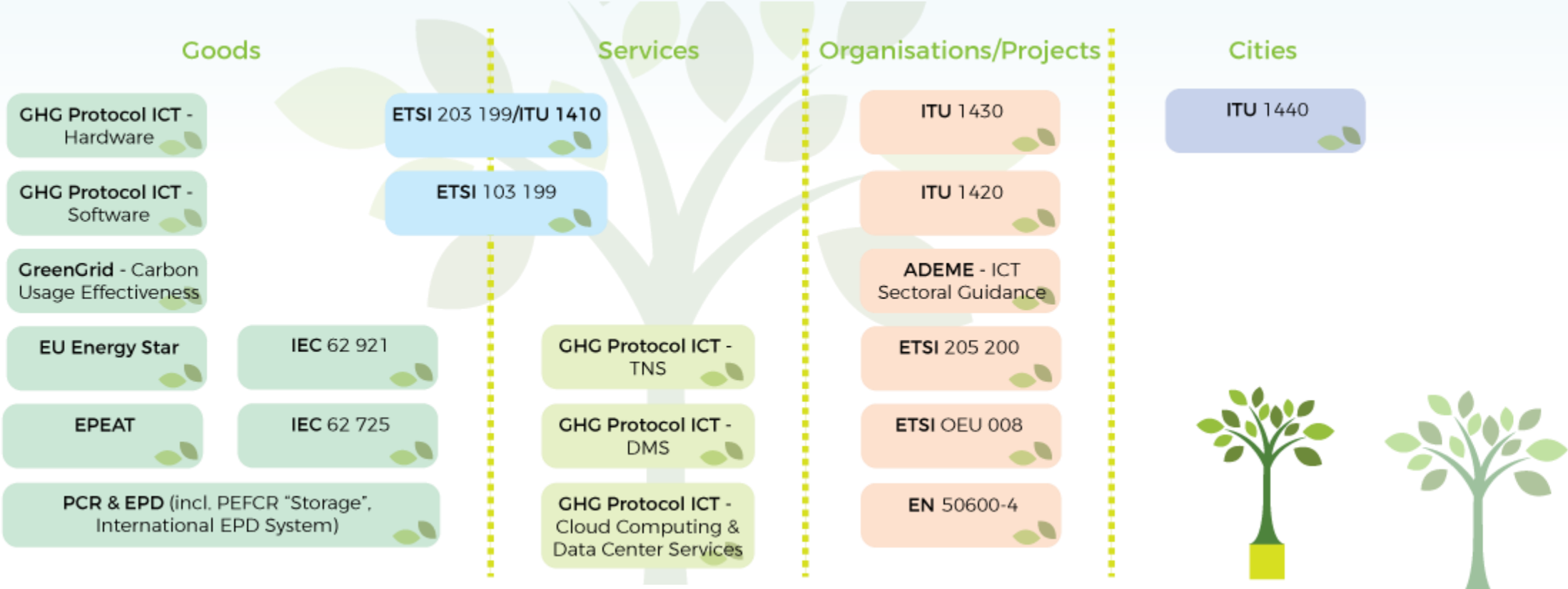
- The **Self-Assessment Tool** will introduce you to the calculation of the carbon footprint of your product or organisation through this simplified and easy-to-use evaluation
- **Factsheets of Best practices and Success stories** will be soon available to the public on our platform. You can already **share your experience with ICTFOOTPRINT.eu** by submitting your story on the website: https://www.ictfootprint.eu/en/success-stories

Is your company/city a success story regarding ICT energy efficiency?
Do you know a success story about energy efficiency in ICT?

SUBMIT YOUR STORY NOW

ICT methodologies considered in the project

ICTFOOTPRINT.eu aims at guiding interested parties in finding the methodology most appropriate to the product assessed and the purpose of their assessment, while considering available resources.



ICT methodologies considered in the project

- The methodologies presented in the project may be used for…

Product improvement or performance tracking, e.g. for
- Identification of hotspots
- Simplified eco-design study

Product comparison and procurement, such as
- Comparison of products
- Green procurement
- Benchmarking of products

Communication, e.g. in
- Environmental labelling
- Sustainable marketing

Accounting, e.g. as part of
- Certified supply type studies
- Environmental reporting

What about cloud services? - Example of data centres

- Cloud services (and subsequently related energy consumption) are subject to a very dynamic development in the past years, e.g. as replacement of services from other sectors. In particular, **data centres** represent a significant share among the energy consumption of the ICT sector.

- Electricity consumption vary depending on the type and the size of the data centre. It may represent up to one third of the total data centre costs, which usually is an **incentive to use efficient technologies** in these structures.

- However, at global level **few information is available** regarding the environmental footprint of data centres services. Among the main identified reasons:
  - The sector is subject to rapid changes
  - Medium data availability on the size and type of data centres (due to potential confidentiality)
  - Low data availability on the related environmental footprint

What about cloud services? - Example of data centres

- At data centre level, understanding the energy consumption pattern or choosing a more appropriate power sourcing are among the first keys to reducing the carbon footprint of the site.

- Several ICT methodologies aim at **guiding organisations through this process**, from the identification of the main environmental hotspots to the implementation of sustainable measures.

- ICTFOOTPRINT.eu highlights the approach undertaken by these methodologies and initiatives, such as:
  - Guidance though a **roadmap** (DCMM)
  - Calculation of **efficiency indicators** such as PUE, CUE (GreenGrid)
  - Evaluation of **carbon footprint** at the centre level (GHG Protocol)

How to be part of ICTFOOTPRINT.eu?

- Get involved in one of our **webinars** as speaker, or
- Register to our **20th December webinar** and learn on how to "**Industrial approach & support from standards in minimising ICT carbon footprint**"
  - Speakers: Joe Baguely (CTO at VMware), Lance Ruetimann (The Green Grid) & Jean Manuel Canet (ITU) **https://www.ictfootprint.eu/en/webinar**
- Join the online **Marketplace** as a seller or a buyer **https://www.ictfootprint.eu/marketplace**
- Send us our **Success story** on your energy savings and carbon footprint reduction **https://www.ictfootprint.eu/en/success-stories**

Thank you for your attention

Contact: Frederic Croison - fcroison@deloitte.fr

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