New Commission Priorities

- ***A European Green Deal***
- ***A Europe fit for the digital age***
- *An economy that works for people*
- *Protecting our European way of life*
- *A stronger Europe in the world*
- *A new push for European democracy*

*'..a once-in-a-generation opportunity to ensure Europe leads the way on the **twin ecological and digital transitions'**.*

Synergies

- Digital transformation for climate neutrality. Under certain conditions (design, use, governance) digital can **reduce 15-20% of total GHG emissions**

Conflicts

- **ICT footprint**: ~3% of global GhG emissions;
- eWaste - fastest growing waste category

- **Today's focus** is mostly on the **conflicts** because **measurable.** Enabling effects are still based on projections

- **Aim: maximise** benefits / synergies for sustainability and D, define purpose and be aware of system boundaries

- **How: Science based methods to measure the net contribution of digital to environment** → leading to sustainable finance for green digital (EU Taxonomy, Green Public Procurement, international finance)

https://www.greendigitalcoalition.eu/

Green Public Procurement (GPP) digital equipment and services – by using EU GPP criteria, in coordination with the central procurement authorities to follow existing

https://ec.europa.eu/environment/gpp/eu_gpp_criteria_en.htm

EU criteria - GPP - Environment

https://ec.europa.eu/environment/gpp/eu_gpp_criteria_en.htm

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Green Public Procurement

News and Events

About GPP

GPP Criteria
- Background and approach
- EU GPP Criteria
- Process for setting criteria
- Criteria development workplan

GPP Good Practice

Legal Framework

Policy Framework

GPP Advisory Group

National Action Plans

GPP Projects and Toolkit

FAQs

Publications

Studies

Useful links

EU GPP criteria

The EU GPP criteria are developed to facilitate the inclusion of green requirements in public tender documents. While the adopted EU GPP criteria aim to reach a good balance between environmental performance, cost considerations, market availability and ease of verification, procuring authorities may choose, according to their needs and ambition level, to include all or only certain requirements in their tender documents.

Cleaning products and services
- Technical background report
- EU GPP criteria (published in 2018)

NEW Computers, monitors, tablets and smartphones
- Technical background report
- EU GPP criteria (published in 2021)

Data centres, server rooms and cloud services
- Technical background report
- EU GPP criteria (published in 2020)

Electricity
- Technical background report
- EU GPP criteria (published in 2012)

Food Catering services

Furniture

Use digital tools and services to improve the footprint of your organisation

- **Optimise travel –** of staff and visitors

- **Building footprint –** better use of buildings, heating/cooling

- **Green Public Procurement byond ICT** - furniture to office supplies

Promote use of digital tools and services to improve the sustainability of the sector you are responsible for

- Smart energy grids, build environment, connected mobility, Precision farming, environmental & forest protection and enforcement of regulations, green datacentres, greener telecommuncations,

Digital contribution to environment & climate

Digital for Circularity / Digital product passport: Data for circular business models, creating a sustainable, integrated Single Market

Digital contribution: reduction by up to 15%-20% of total emissions with deployment of today's technology.

Smart mobility: reduction of transport emissions est. up to 37%; **smart buildings** with emissions reduction est. up to 17%; smart energy systems appr. 23 %

Destination Earth / digital twins: High Performance Computing, AI for better anticipation of extreme events prediction, climate modelling.

Also: precision farming, Blockchain for emissions accounting, smart cities; AI for climate; smart manufacturing/digital twins;

RRPs: Missed opportunity to use digital solutions for climate action

24 Member States, Norway and Iceland have signed a declaration to **accelerate the use of green digital technologies for the benefit of the environment**.

Examples of commitments made:

- Making use of Green Public procurement the default option;

- Support the **deployment of green digital solutions** that accelerate the decarbonisation of energy networks, decrease pollution, combat the loss of biodiversity and optimise resource efficiency;

https://digital-strategy.ec.europa.eu/en/news/eu-countries-commit-leading-green-digital-transformation

New commitments by Member States in June 2022:
https://www.economie.gouv.fr/files/files/2022/Call_for_Green_Digital_Transition_EU.PDF

Sustainable Digital Technologies (Greening ICT)

Climate Neutral and highly energy efficient datacentres by 2030: review **JRC's CoC,** the Energy Efficiency Directive and the Taxonomy Regulation

Greener electronic communications by 2030:

- Transparency measures
- Administrative incentives for green deployment

Circular Electronics Initiative: Better durability, reparability, refurbishment, recycling for consumer and industrial electronics & IoT

"Right to repair" for consumers.

Low power processors, software and AI: investing in new ultra-low-power

ICT & Materials?

Europe produces the most e-waste per capita worldwide
- ➢ 16.2kg per person/year
- ➢ Value lost in **raw materials** ca. €13 billion/year
- ➢ **Hazardous materials**

ICT devices (smartphones, tablets and laptops) **are of particular concern** due to quantity, materials and emissions

Extending the lifespan of all smartphones in the EU by 1 year

=

Removal of 1 million cars from our roads (in emissions)

Opportunity to grow local/EU aftermarkets for electronics
- ○ E.g. automotive industry

European Commission

Thank you