

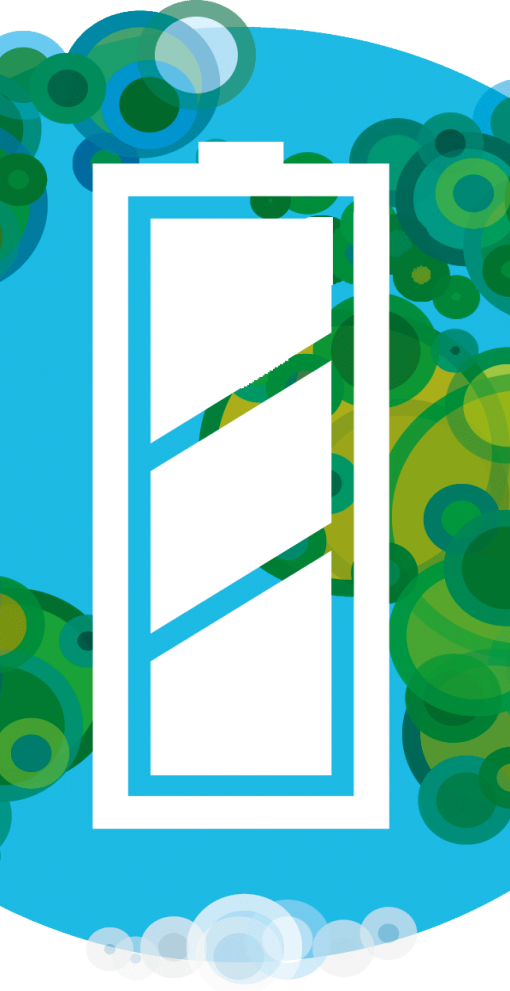


WORKSHOP ON RESEARCH AND TECHNOLOGICAL DEVELOPMENT OF ENERGY EFFICIENCY IN CLOUD COMPUTING

BERTIL **HEERINK** DIRECTOR EU AND INTERNATIONAL INSTITUTIONS

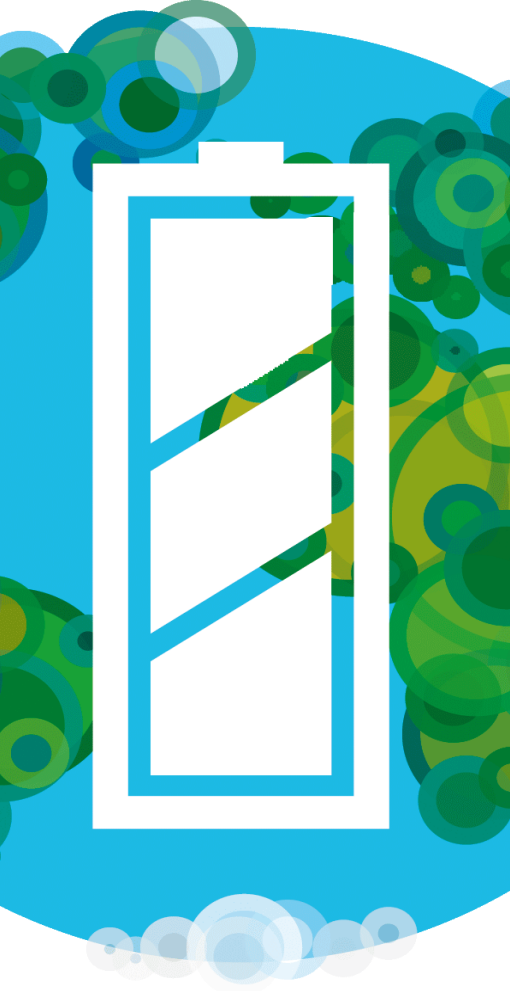
PERSPEKTIVEN FÜR
UMWELT & GESELLSCHAFT **umweltbundesamt**^U

BRUSSELS, 10 SEPTEMBER 2019



THE STUDY

Energy-efficient Cloud Computing Technologies and Policies for an Eco-friendly Cloud Market



OBJECTIVES OF THE STUDY

Objective 1

- ✓ Analysing and evaluating the current and future energy efficiency of cloud models and their key services using an already applied model adapted for this purpose

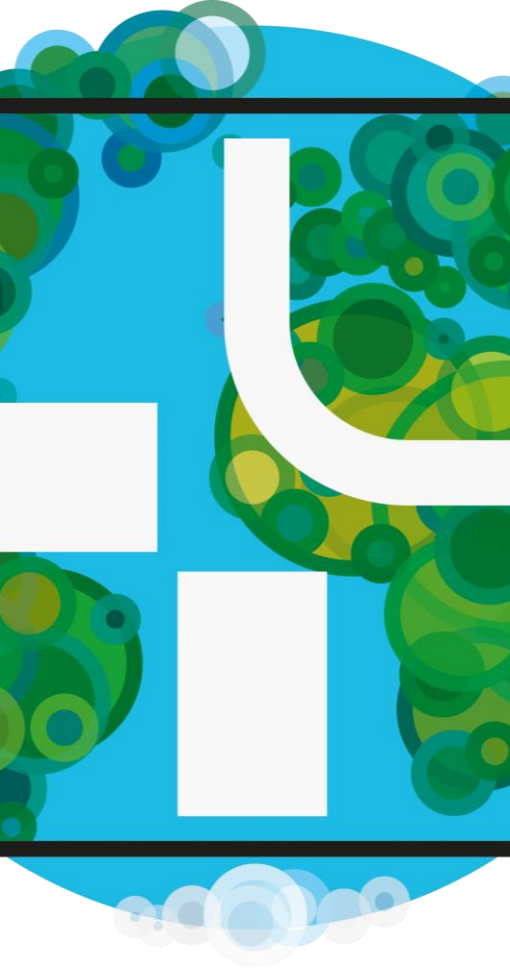
Objective 2

- ✓ **Identifying relevant technological developments** and current voluntary / regulatory policy instruments as well as **suggesting potentials** for reducing energy consumption and also **appropriate policy options** (incl. GPP) in order to **promote environmentally friendly, efficient cloud services** and an **energy-efficient data centre** and network landscape



KEY TASKS OF THE STUDY

- Identification of key technological areas for further improvement of energy efficiency
- Mapping the political fields of action for increasing the energy efficiency of cloud services
- Drafting proposals for action for the future on the basis of a stakeholder consultation
- To identify the current status of inclusion of GPP criteria and tools for cloud computing services within the National Action Plans (NAPs) and other national initiatives for GPP.
- Identify best practices enabling sustainable and energy efficient cloud services
- Provide recommendations to assist policymakers & practitioners at European and national level in defining or improving policy instruments to create a low carbon footprint cloud service market



ROADMAP



Validation
Workshop

10th September

Research and
technological
development of
energy efficiency in
cloud computing



Validation
Workshop

4th December

Recommendations
and policy measures
for GPP and Cloud
providers



FINAL Study
REPORT

FEBRUARY
2020

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