Achieving digital sustainability Milestones and publications



DATA COLLECTION

Arcep begins a 1st informationgathering campaign on telecoms' (networks, devices) environmental

Digital

of global greenhouse gas





WORK

Public and independent administrative authorities publish their thoughts on their role in and datadriven regulation tools for tackling environmental challenges.



Arcep co-chairs the BEREC (Body of European Regulators for Electronic Communications) "Sustainability" working group devoted to examining telecom networks' environmental footprint and devising solutions for curbing it.

DOCUMENT ON THE PARIS ACCORD AND CLIMATE **EMERGENCY** MAI

INTERNATIONAL

Arcep joins international bodies' work on tackling telecoms and digital's environmental footprint, notably OECD.

ON THE STATE

Arcept devotes a chapter

to the digital sector's impact

OF THE INTERNET IN FRANCE

"ACHIEVING DIGITAL SUSTAINABILITY" PLATFORM

Arcep launches a collaborative platform and invites stakeholders to contribute to discussions and the publication of a 1st report.

CNNUM² ROADMAP ON THE ENVIRONMENT AND DIGITAL TECHNOLOGY

This report contains 50 proposals, drafted in concert with more than 50 stakeholders, including Arcep.

ADEME & ARCEP MISSION STATEMENT

AUGUST

The Government entrusted the two organisations with a joint task: to identify and assess the different factors that make it possible to quantify the digital environmental footprint

ACHIEVING DIGITAL SUSTAINABILITY **REPORT +** 11 PROPOSALS

DECEMBER

ACHIEVING DIGITAL

Arcep publishes a report and 11 concrete proposals for combining the development of digital technology uses and reducing its environmental footprint.







Arcep Chair from 2015 to 2020

1. According the Shift Project report, Lean ICT: Towards digital sobriety, March 2019, and the GreenIT.fr study, The environmental footprint of the digital world, September 2019.

BRIEF ON THE DIGITAL

CARBON FOOTPRINT

Arcep publishes a brief as part of its work

2. Le Conseil national du numérique/French National Digital Council

DIGITAL & THE **ENVIRONMENT** ROADMAP **FEBRUARY**

footprint"

The Government publishes a roadmap designed to converge the digital and Green transitions. It entrusts Arcep with new responsibilities.

ENGAGEMENT LETTER ON MOBILE DEVICES

The Government tasks Arcep with producing a report on handset subsidies and replacement rates.

ENVIRONMENTAL DATA COLLECTION

MARCH

of the carbon

footprint

in France

Arcep begins a new informationgathering campaign on telecoms' (networks, devices) environmental footprint.

Estimated length

of use of a smartphone

in France:

between 23

& 37 months

MOBILE

DEVICE

RATES

JUNE

REPLACEMENT

Arcep submits a report

smartphone sales and

distribution practices

have on replacement

to the Government

on the impact that

JULY

DIGITAL MARKET

Arcep, the Economic Council (CGE) and the National Agency for Territorial Cohesion (ANCT) publish an annual study on digital device ownership and changing user habits including, for the 1st time, environmental considerations.

COLLABORATIVE WORKSHOPS ON THE 26 GHZ BAND

NOVEMBER 44)

To study how to take environmental issues into account in 26 GHz band awards for 5G, Arcep hosts two "Achieving digital sustainability" workshops.

DATA COLLECTION LAWS & POWERS

NOVEMBER **DECEMBER**

The REEN³ Act of 15 November assigns Arcep new responsibilities, and the Act of 23 December 2021 expands its data collection powers to other digital sector players.

ASSESSMENT OF A 4G VS **5G DEPLOYMENT**

JANUARY

Thanks to the Mobile Technical Experts Committee, Arcep publishes a report comparing the energy consumption of a 4G vs. 5G deployment



Three-day training programme for Arcep directors and staff, to deepen their awareness of environmental issues. providing keys to understanding and concrete actions to take.



account for

65 to 90%

of the digital environmental footprint





PROGRESS REPORT OCTOBER

Arcep hosts a webinar for "Achieving digital sustainability" platform participants (associations, institutions, operators, tech companies, experts) and delivers a progress report on its achievements and ongoing work.

ARCEP & ADEME STUDY ON DIGITAL'S CARBON FOOTPRINT

JANUARY

The Government had tasked the two organisations with measuring the digital environmental footprint in France and finding levers for action and best practices to reduce it. Arcep and ADEME publish the 1st two volumes of this study.



APRIL

In this 1st edition, Arcep publishes the initial indicators collected from the country's four main telecoms operators4 to monitor the progression of their environmental footprint - and so making manifest one of the 11 proposals set forth in the December 2020 report, which aimed to introduce a Green Barometer.

- 3. Act No. 2021-1485 of 15 November 2021 on reducing the digital environmental footprint in France.
- 4. Altice France SFR, Bouygues Telecom, Iliad- Free and Orange France.



Arcep assesses the environmental footprint of the electronic communications sector, devices and data centres



The European Regulators Group



for Postal Services (ERGP) studies the sector's impact on the environment. It analyses the measures that postal operators have taken to reduce it, and those set out in the European





NOVEMBER

The Government tasked the High Committee for Green ICT with establishing a decarbonisation roadmap for the digital sector. Arcep contributes regularly to the Committee's working groups.

ENVIRONMENTAL DATA COLLECTION

JANUARY

80%

of devices' carbon footprint is tied to

Arcep extends its data collection to include device suppliers (smartphones, computers, smart TVs, etc.) and data centre operators.

BAROMETER

JANUARY

Arcep, the Economic Council (CGE), the National Agency for Territorial Cohesion (ANCT) and, for the 1st time. Arcom. publish a new edition of the Digital Market Barometer, including a close-up look at TVs' environmental footprint.

ARCEP & ADEME STUDY ON DIGITAL'S **CARBON FOTPRINT**

MARCH

Arcep and ADEME publish the 3rd and final volume of their forward-looking assessment of the digital environmental footprint in France, in 2030 and 2050.

METHODOLGICAL **GAP ANALYSIS** ON MEASURING THE DIGITAL **ENVIRONMENTAL** FOOTPRINT

APRIL

Co-mangaged by ADEME and Arcep, the Technical Experts Committee on assessment seeks to identify methodological disparities that can explain the differences in the findings of digital environmental impact studies, and to make recommendations for improving existing standards.

If nothing is done, the digital carbon footprint in France will increase

45%

by 2030 compared to 2020







JUNE

Arcep participates in public debates on environmental issues. such as the Digital Assembly, organised under the French Presidency of the Council of the European

INTERNATIONAL **OCTOBER**

Arcep takes part in investigations into how international bodies, notably the ITU and OECD. can take telecoms and ICT's environmental impact into consideration, as part of the G7 work on the digital tech sector.



JANUARY

Arcep publishes a tutorial for digital device users, offering tips and best practices for curtailing their environmental footprint.



ROUTER & STB CONSUMPTION

JANUARY

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Arcep publishes a protocol for measuring ISP routers, Wi-Fi extenders and STBs' power consumption. It explains what influences these devices' consumption.



MARCH

The Body of European Regulators for Electronic Communications (BEREC) publishes a draft report on environmental indicators for consultation.

'ACHIEVING DIGITAL SUSTAINABILITY" SURVEY

APRIL

In this 2nd edition, Arcep publishes annual indicators collected from the country's four main telecoms operators.

ARCEP'S EXPERTISE RECOGNISED BY THE WORLD BANK, ITU AND UNCTAD

The World Bank and ITU commended Arcep in their report published in December 2023 and underscored the importance of data collection for tackling environmental issues.

On 10 July 2024, UNCTAD published its Digital Economy Report and showed ICT's considerable impact on the environment and on developing countries. The report cites the work that Arcep did in concert with ADEME.

ENVIRONMENTAL **DATA COLLECTION**

FEBRUARY

Arcep expands its environmental data collection to include mobile network equipment suppliers.



three times

more energy tha



MARCH

This 3rd edition now includes data from device manufacturers and data centre operators, and on routers' and STBs' power consumption



DIGITAL MARKET BAROMETER MAY

This new edition of the Barometer queries users on what they are doing to reduce the environmental footprint of their digital practices.

10+ screens per household, of which close to



are never used



MARCH

Arcep responds to the European Commission public consultation on generative AI, underscoring the fact that its environmental footprint has yet to be properly assessed.



BEREC:

- Publishes its report on sustainable ICT on behalf of users and kicks off a campaign to raise public awareness of devices' environmental footprint;
- Invites the European Commission to take further actions and promote stakeholder accountability in its response to the public consultation on the White Paper "How to master Europe's digital infrastructure needs?"

CONNECTED **EQUIPEMENTS** THINGS AND DEVICES

JULY

The Technical Experts Committee, under the aegis of Arcep and ADEME, delivers its 2nd rapport: "Scope of IoT devices with respect to ICT (information and communication technologies)".



SEPTEMBER

Arcep's annual "Connected Territories" conference devotes a roundtable to ICT's impact on the environment and the actions territories are taking to reduce their carbon footprint.



BEREC



-H-empowering -H-GreenEU



Arcep hosts a satellite event to the ITU Council meeting, devoted to the environment and, as an active member of the French delegation, contributes to the adoption of a resolution to support ITU initiatives to combat climate change.



JULY

In her capacity of Vice-chair of BEREC for 2024, Laure de La Raudière delivers a keynote at the 'Sustainability in Telecommunications and Space' conference hosted as part of Hungary's presidency of the Council of the EU.



We can build desirable digital technologies that will not only fulfill our needs today, but also for generations to come, within our planet boundaries.))

Laure de La Raudière, President of Arcep



GENERAL POLICY

GENERAL POLICY FRAMEWORK FOR THE ECODESIGN OF DIGITAL SERVICES

MAY

Arcep and Arcom, in tandem with ADEME, present the Ecodesign policy framework on 17 May. Drafted in concert with DINUM, CNIL, Inria and digital industry stakeholders, it aims to reduce digital services' environmental footprint, starting at the design stage

INTERNATIONAL

SEPTEMBER

Arcep unit head, Sandrine Elmi Hersi, presents the Authority's environmental work to UNCTAD.



NOVEMBER

In a joint Op-ed in Les Echos, ADEME, Arcom and Arcep call for European supervision of digital technology sustainability.

ENVIRONMENTAL DATA COLLECTION **MARCH**

Arcep expands its environmental data collection to fixed network equipment suppliers manufacturing fibre optic cables.

UNITED NATIONS UNCTAD

and especially TVs have the biggest environmental



The environmental impact of French people's audiovisual media use is assessed for the first time in a study conducted by Arcom and Arcep, in collaboration with ADEME, in accordance with the «Climate and

Resilience» Act.

OCTOBER





AI SUMMIT

Arcep participates in an event

alongside eight other public

hosted by Usbek & Rica as part

of the Al Summit at the Sorbonne

to the Sustainable AI task force in

institutions. The Authority contributes

preparation for the Summit. In a joint

Op-ed with ADEME and Inria, it calls

for the design of a more frugal and transparent European Al.

FEBRUARY

WORLD BANK & ITU WORKING

Measuring National ICT Sector Environmental Impact ARCEP CASE STUDY - FRANCE

GROUP MARCH

A report from the World Bank and ITU commends Arcep's groundbreaking work on digital technology's environmental footprint. ITU creates a new sustainability working group, chaired by Arcep.

BAROMETER MARCH

The 2025 edition reveals that people spend an average 25% of their waking hours on a digital device for personal use. Premature smartphone replacement is decreasing, but rates of reuse remain low.



EUROPE

APRIL

The BEREC Sustainability working group, co-chaired by Arcep policy officer, Tom Nico, hosts an external workshop on the ecodesign of digital services, promoting the RGESN in particular. An external workshop hosted in September 2025 on the environmental impact of satellites.

ECODESIGN OF DIGITAL SERVICES

Arcep and Arcom, in collaboration with ADEME, bring digital ecosystem stakeholders and ecodesign experts together in a new body: the digital ecodesign stakeholder Forum (or «RGESN Forum»). Arcep promotes the RGESN at national and international events. It promotes ecodesign when drafting a new OECD recommendation on digital technologies and sustainability in June.



BEREC



NETWORK SHARING

JUNE

BEREC publishes its report on network infrastructure sharing and its environmental benefits. The report examines the impact of infrastructure sharing on the sustainability of electronic communications networks and services, in accordance with the EU's broader objectives of reducing the ICT sector's impact on

«ACHIEVING DIGITAL SUSTAINABILITY» **SURVEY**

APRIL

In this 4th edition, the environmental footprint of mobile network equipment suppliers is assessed. Data centre operators and telcos' footprint continues to grow.

ENVIRONMENAL TRAINING APRIL

Arcep staff undergo a threeday training course, to deepen their awareness of environmental issues, with keys to understanding and concrete actions.