How Orange commits to a Sustainable Home

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How Orange commits to a Sustainable Home
Orange Commitment: Reach Net Zero Carbon in 2040

**CO₂e trajectory**

- **Reduce our CO₂e emissions by 90%**

  - **-30% scopes 1&2 vs. 2015**
  - **-14% scope 3 vs. 2018**
  - **-45% scopes 1, 2 & 3 vs. 2020**
  - **Net Zero Carbon: -90% vs. 2018**

  Validated by SBTi

  Ongoing SBTi

  10% remaining emissions to be sequestrated

**Levers:**

- **Energy efficiency:** contained growth in electricity consumption
- **Renewable energies:** new electricity supplies
- **Circular economy:** network and end-user equipment eco-design, collection, repair, refurbishment, recycling...
- **Suppliers’ relation:** purchase of reconditioned equipment, CSR criteria in RFPs...

+ capture and store the 10% of remaining emissions
Orange Group & Home devices carbon footprint

Orange Group global carbon footprint

Indirect emission

(purchase of products and services, transport of goods and people, products use by customers, waste management …)

Home devices (i.e. CPE: HGW, STB)

(manufacturing and use)

7.5 Mt CO$_2$e

85%

11%

Purchase category: impact to manufacture the products (from raw material extraction to final assembly and packaging) * volume purchased in 2022

Use category: impact due to electricity consumed by the devices * customer base in 2022

In countries where electricity has a very high carbon intensity (main production from coal)

- Use category up to 90% of CPE carbon footprint
- Home devices (Manufacturing + Use) up to 20% of the telco carbon footprint
Our actions

To reduce “manufacturing phase” impact

Eco-design approach and lifecycle analysis to challenge needs and assess impacts

- Recycled material (packaging, casing, metals), use of critical raw material, compact size...

Design product to enable their refurbishment

- Easy disassembling, resistance to scratches, repairable parts, spare parts availability...

Engage suppliers to support our objectives

- CSR score weight of 20% in all RFP

3,5 M CPE collected/year

85% are non faulty

To reduce “use phase” impact

Improve energy efficiency to reduce power consumption over product lifetime

- Implement low power modes
- Deactivate non used features

Exploration of new features to improve devices consumption

- IA models, Wi-Fi and WAN interfaces shutdown...

50% saving on STB use when deep stand-by mode is activated
Initiatives on eco-design growing for more than 10 years

Eco-design maturity

1st LCA (Life Cycle Analysis) on Livebox 1st eco-design guide with SagemCom

Livebox 3
- Design improvement for refurbish operation

Livebox 4, STB4
- Design for refurbish, recycled materials for packaging

Fibra / Livebox 5
- Less features (fiber only, no screen), recycled plastics for casing
- Less material and CO2 emissions

STB Stellar
- Compacity and Energy efficiency, stand-by modes
- Less material and CO2 emissions

Funbox 6 / Fibra 6 Cherry v1
- Design for refurbish, recycled materials

Livebox 6
- Design for refurbish, recycled plastic, 2 stand-by modes, low-power screen, wattmeter

Livebox 7
- External certification for eco-design actions, increased CSR evaluation in RFP process to select the supplier

Key pillars and stakes
- Refurbish increase product lifetime
- Product lifetime in countries up to 10 years (7 years requested in current contracts)
- Multiplication of technologies (including Wi-Fi) that increase impact of material
- Key to leverage low power modes to reduce impact over lifetime
What prpl can do to support sustainability objectives

What we already have

App Environment (prpl LCM):
• SW & data innovation $\rightarrow$ CPE lifespan
• E2E service optimization $\rightarrow$ a CPE app component
• Energy consumption optimization $\rightarrow$ a CPE app

What we still need

prpl’s Low-Level API:
• Standard API for SoC low-power modes
• Standard API to switch on/off HW components

prpl’s High-Level API:
• Energy management capabilities for apps

Orange is eager to bring its Green experience to Purple
Thank you