

Environment

CO₂ emissions / Impacts and resources / IT for green / Systemic approach

Reducing our carbon footprint

Challenges / vision / beliefs

By transforming the world of industry, digital technology is part of the solution for reducing environmental impacts. Digital uses are central to this revolution and their uses are multiplying.

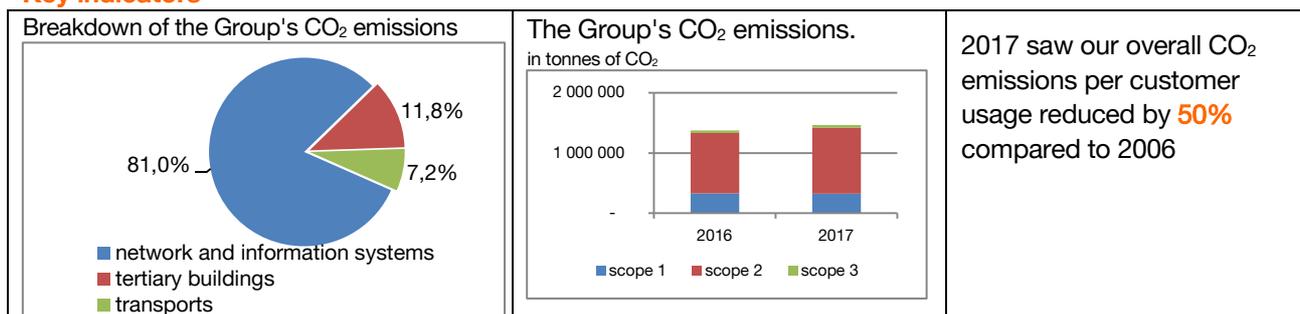
Orange is taking action to reduce its own environmental footprint and those of its customers, and is helping other sectors to do the same. During the COP21, held in Paris in December 2015, Orange set itself the objective of halving its CO₂ emissions per customer usage by 2020 (compared to a 2006 base).

Orange is a signatory of the French Business Climate Pledge, made in December 2017, to introduce solutions and innovations by 2020 with the aim of transitioning to a decarbonised society.

Roadmap

- Cut Orange's energy consumption, especially that due to networks and information systems.
 - Launch of a wide-ranging energy action plan: "Green ITN 2020" in 2008.
 - Keep closer control of the energy consumed, including by carrying out carbon assessments of its activities and rolling out smart meters
 - Taking action to limit the impact of transport, by using videoconferencing, cutting the fleet, developing car sharing and using electric and hybrid vehicles
- Develop renewable energy
 - switch to 100% renewable energy for Africa – Middle East zone subsidiaries when legislation permits;
 - deploy ESCO (Energy Service Company) projects in the whole MEA zone
- Within the International Telecommunication Union, help to develop a methodology whereby ICTs can contribute to achieving the objective, set at COP21, of keeping the temperature rise below 2 degrees compared with the pre-industrial era.
- Orange endorses the recommendations of the Taskforce on Climate-related Financial Disclosures (TCFD) on climate reporting (evaluation of the financial risk in its strategy in relation to climate change) and intends to put them in place in 2018.

Key indicators



Actions / achievements in 2017

- Orange estimates that the Green ITN 2020 plan prevented the emission of 2.3 million tonnes of CO₂ between 2010 and 2017:
 - the growing cooperation between Orange Labs and equipment suppliers' research centres makes it possible to develop and source highly energy-efficient telecoms equipment: liquid cooling systems, high voltage supply systems, radio equipment energy efficiency, etc.; the Mosaic programme, for example, launched in 2017, enables the latest generation of Nokia devices using the Orange network to make estimated consumption savings of 30% compared with previous generations;
 - performing energy audits paves the way for optimisation initiatives; the resulting action plan in France was rolled out to all large technical sites in France (140); in July 2017, Orange France obtained ISO 50001 certification for its energy management system for all its activities, becoming one of the first French companies to obtain this certification on a very large scale. It certifies over 30,000 technical sites, and has enabled a 6% reduction in electricity consumption on the most important sites (between the end of 2015 and the end of 2017);
- Other energy costs
 - In buildings, deployment of measuring devices for energy consumption by office and computer equipment has been completed by all countries in the Europe zone. Since 2015, consumption by these items of equipment has been cut by 30 to 50%, partly thanks to better monitoring of them outside business hours.
 - Orange is top of the CUBE2020 energy performance rankings with 6.5% savings achieved for all registered buildings, and in 2017 was awarded the BREEAM high environmental quality certification, with energy certification for all new leases.
 - The Group has a large fleet of company vehicles, but it is steadily falling in size (-4% per year for the last 3 years) and fell below 19,000 vehicles in 2017. Orange used more than 305 electric vehicles in 2017 (+22% vs 2016) and more than 325 hybrid vehicles (+35% vs 2016). More than 900 recharge points were provided (+80% vs 2016). Staff have access to solutions in order to reduce business travel (such as videoconferencing, conference calls, remote collaborative working tools and car sharing).
- Roll-out of renewable energy
 - in Africa and the Middle East, continuing deployment of solar energy on radio sites in the zone with over 2,800 sites operational in 2017; solar farm projects are under way in Jordan, Egypt, Mali, Morocco, Niger and Senegal;
 - in 2017, two initial partnerships with independent renewable energy producers in Africa (ESCO (Energy Services Company) project) were signed to enable the energy transition of Orange's fleet of telecommunication towers in the DRC and Niger. This means outsourcing the investment, installation, modernisation and operational management of power generation infrastructure in order to optimise electricity consumption, reliability of supply, its environmental impact and energy-related expenditure.



Thematic data sheets

Corporate Social Responsibility

Going further

- [The Orange CO2 commitment for the COP21](#)
- [Data centres: billions of items of data in the green](#)
- [Eco-responsible data centres](#)
- [Future servers will be virtual](#)
- [LoRa: the low consumption network to connect objects](#)
- [The future 5G](#)