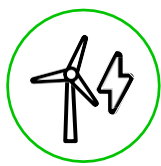# The network of the Netherlands

We digitize, simplify, and offer new opportunities. To the network of the future.

kpn

Going green

We see every day as an opportunity to do better. Making progress for people and the environment with our network and our employees.
Because a better world matters to everyone. KPN is one of the most sustainable telecom companies in the world. Every day, we focus on reducing the energy consumption of our customers and that of our company. And we seek ways to replace polluting energy sources – where they still exist – with clean energy sources, such as green electricity.
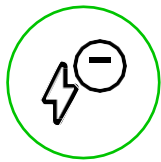
KPN accelerates fiber rollout. Sending data over fiber uses less energy than sending data over copper lines.

Ready for 5G

5G offers higher speed, shorter response times, and greater reliability. Sectors such as the manufacturing industry, agriculture, the automotive industry, logistics, and energy are developing new 5G applications that contribute to security, energy savings, and a nicer living environment.

We are helping to make life cleaner, more attractive, and more efficient for people with smart networks such as LoRa, 5G, and LTE-M. This contributes to, among other things, the accelerated development of Smart Cities, Precision Farming, Connected Cars, and Smart Maintenance. This way, we travel less, use water more efficiently, and monitor air quality.
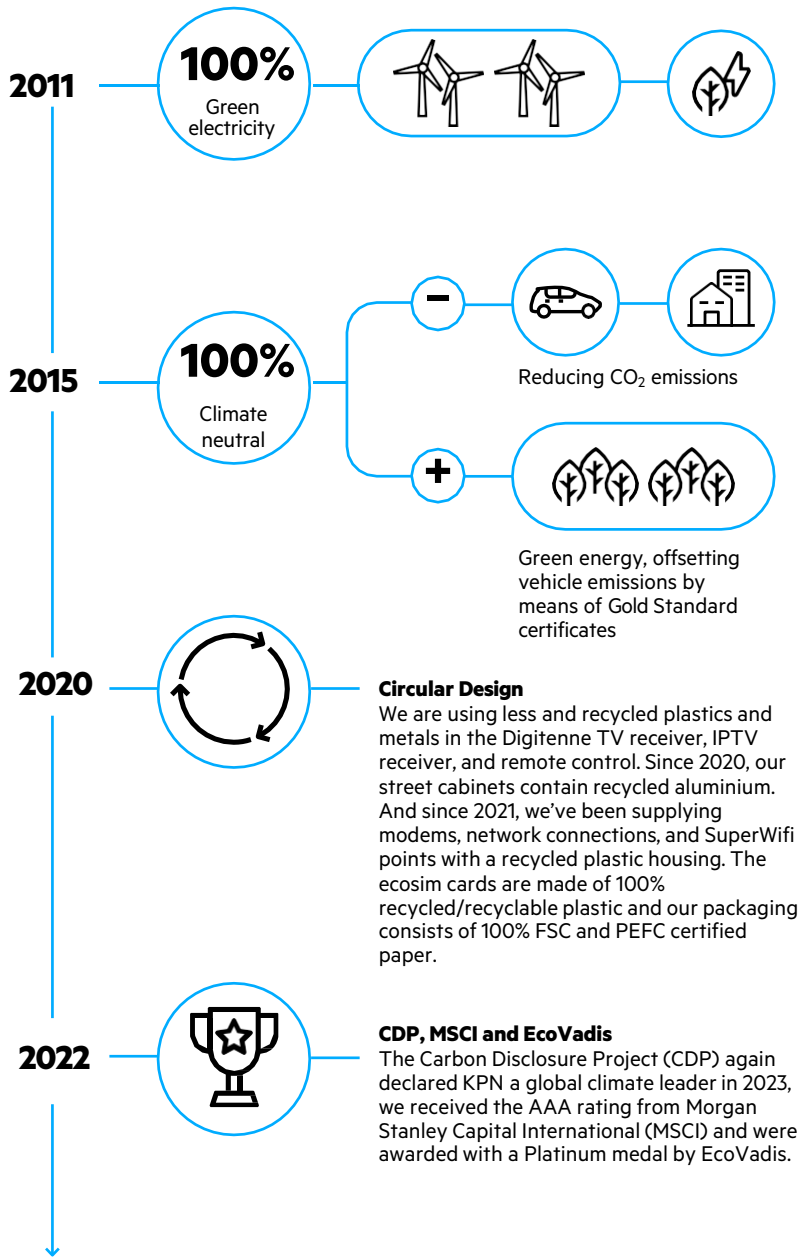
We are managing to expand our network without using more energy by removing old equipment, replacing it with energy-efficient models, and by improving cooling. The total electricity consumption of the network in 2023 was 426 GWh, which is a decrease of almost 7% compared to 2022.
The biggest energy savings are a result of the modernization and simplification of the network. As part of our sustainability ambitions, our network components are migrating to cloud solutions and virtualization of network functions.

Milestones achieved

2011 — **100%** Green electricity

2015 — **100%** Climate neutral
- − Reducing CO_2 emissions
- + Green energy, offsetting vehicle emissions by means of Gold Standard certificates

2020 — **Circular Design**
We are using less and recycled plastics and metals in the Digitenne TV receiver, IPTV receiver, and remote control. Since 2020, our street cabinets contain recycled aluminium. And since 2021, we've been supplying modems, network connections, and SuperWifi points with a recycled plastic housing. The ecosim cards are made of 100% recycled/recyclable plastic and our packaging consists of 100% FSC and PEFC certified paper.

2022 — **CDP, MSCI and EcoVadis**
The Carbon Disclosure Project (CDP) again declared KPN a global climate leader in 2023, we received the AAA rating from Morgan Stanley Capital International (MSCI) and were awarded with a Platinum medal by EcoVadis.

Our future ambitions

2025 — **100%** Almost circular
- Sustainable agreements with suppliers
- **2024**: High-value 2nd life for 86% of all discarded products and materials
- **2025**: 12 services with circular design in business market

2027 — **>50%** Electricity from wind farm

2030 — **0%** CO_2 emissions from our vehicles
- Fossil free vehicle fleet

-48% Energy consumption
400 GWh reduction (v.s. 2010)

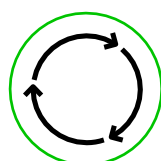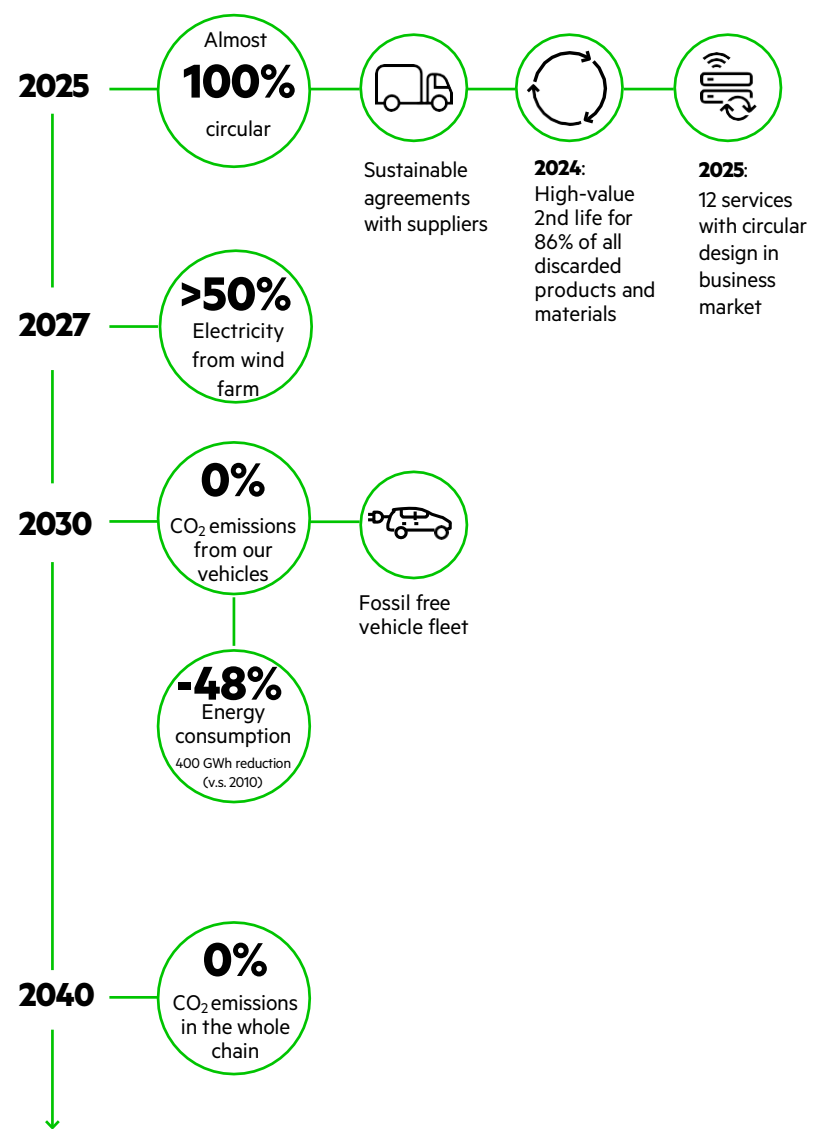**2040** — **0%** CO_2 emissions in the whole chain

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We help our customers with energy-efficient products and services. These include cloud storage for TV services and services that enable remote working, monitoring, and more efficient business operations. In 2023, our customers saved approximately 311 kTon of CO_2e by using our ICT products. Most of these savings were due to reduced teleworkers and less traveling with the car.

We use fewer materials, improve product design, and are taking steps to reduce our waste production to almost zero. In 2023 approximately 85% of the weight of the equipment and materials is currently reused or recycled after the utility phase.

Our actions towards zero waste and zero carbon will help us mitigate negative impacts on biodiversity in our own operations and supply chain. To foster a positive impact on biodiversity, we aim for nature inclusive infrastructure, offices and services. In 2023, we realized our first nature inclusive technical building for fiber in cooperation with Naturalis Biodiversity Center.

kpn. The network of the Netherlands