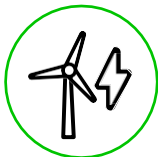


### Going green

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.



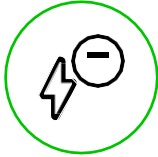
KPN accelerates fiber rollout. Sending data over fiber uses less energy than sending data over copper lines.



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.

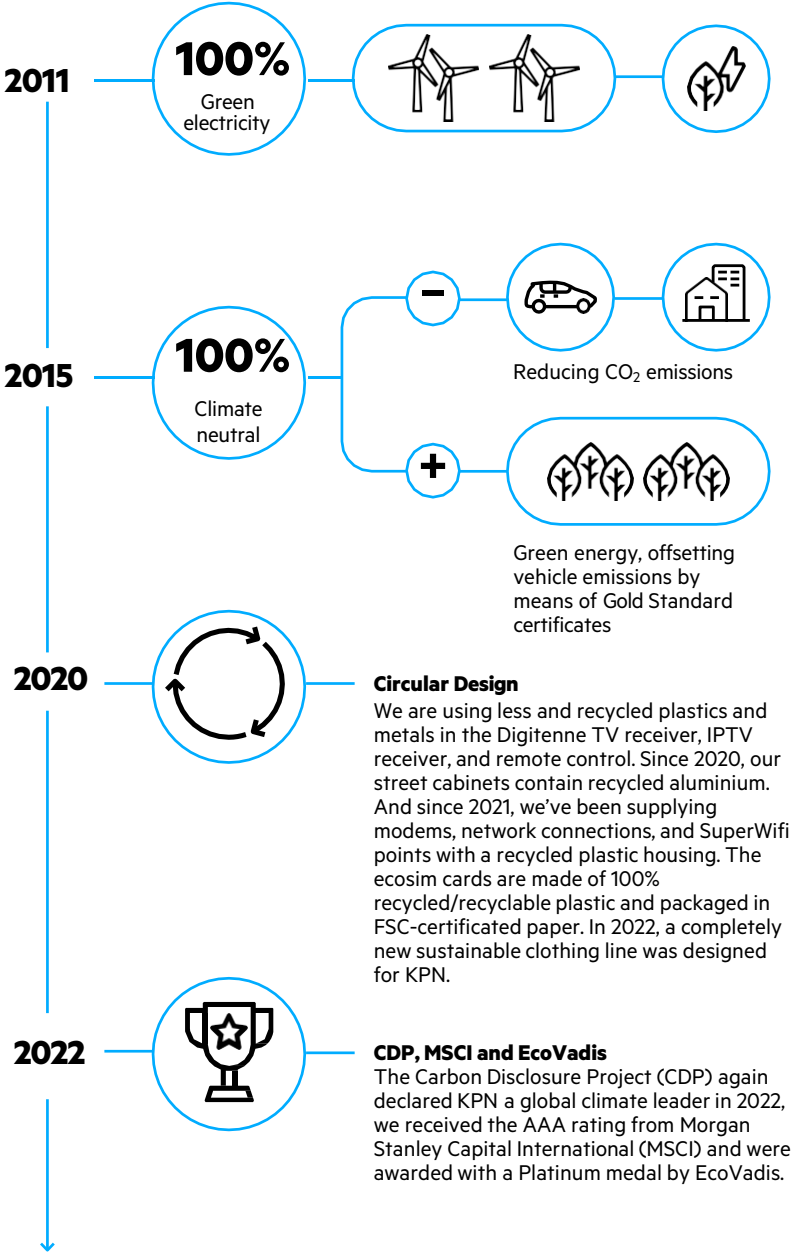


We are managing to expand our network without using more energy by removing old equipment, replacing it with energy-efficient models, and by improving cooling. The total electricity consumption of the network in 2022 was 456 GWh, which is a decrease of 5% compared to 2021. Compared to base year 2010, this amounts to a reduction of 38%, while the data communication volume has increased 24-fold in the same period. 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.

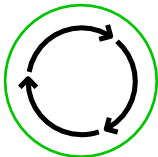
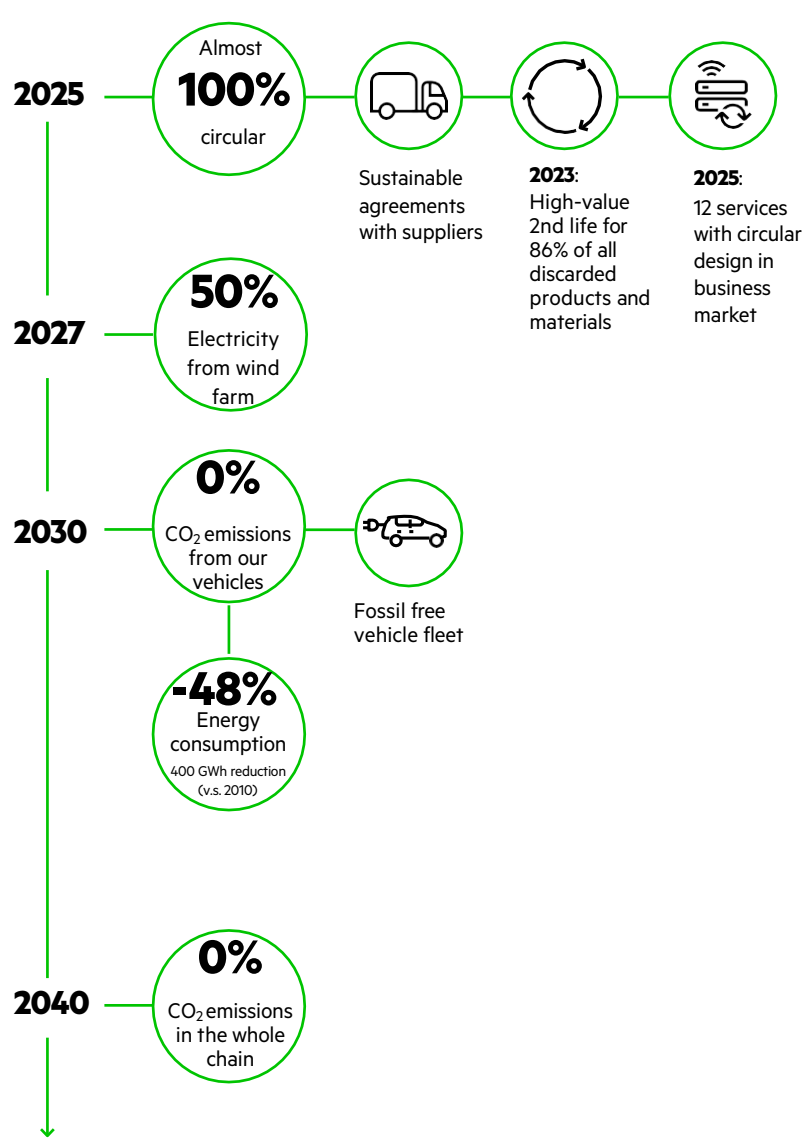


We help our customers with energy-efficient products and services. These include cloud storage for TV services and services that enable remote working, monitoring, and more efficient business operations. In 2022, our customers saved approximately 311 tons of CO<sub>2</sub>e by using our ICT products. Most of these savings were due to reduced teleworkers and less traveling with the car.

### Milestones achieved



### Our future ambitions



We use fewer materials, improve product design, and are taking steps to reduce our waste production to almost zero. In 2022 approximately 86% of the weight of the equipment and materials is currently reused or recycled after the utility phase.