

ANNUAL CSR REPORT 2024

**We
Develop
Quality**

Urban liveability



Q-Park Frontenpark

In a seven-month building project completed in June 2024, Q-Park Frontenpark gained a temporary and recyclable multi-storey car park and became a **mobility hub**. Q-Park Frontenpark is now Maastricht's largest parking location.

- | Strategically located at the edge of the city
- | 1,308 parking spaces
- | Approx. 600 in the new multi-storey structure
- | 6 EV charging points

Maastricht municipality wanted to temporarily expand parking capacity in the area while developments continue to rejuvenate the neighbourhood. These will include building housing on a nearby open-air car park.

This mobility hub contributes to Maastricht's zero-emission zone and plans for selective motorised accessibility to the city centre. For businesses this includes urban logistics services, and for customers, buses stop near the car park entrance and also shared bicycles are available.

Sustainable design considerations

Sustainability has been a key consideration in this project. The temporary multi-storey structure was built using prefabricated steel frames. The open structure 3D-printed cladding provides natural ventilation. At the end of its life cycle, the steel structure can be easily dismantled and the materials be reused or recycled.

Figure 5: Assembling the prefabricated elements



As the grid capacity available is insufficient to power the parking facility's lighting, ventilation, and equipment systems as well as EV charging points, a creative energy management system has been installed with sufficient energy for all needs. This includes:

- | 200 solar panels on the rooftop
- | 60 kW battery storage
- | Energy management system to optimise power use
- | Smart lighting with sensors
- | EV charging infrastructure prepared for future expansion

Figure 6: 3D printed facade and EV charging points



Figure 7: Solar-panel carport on the upper deck



Energy portfolio management

Supporting the energy and mobility transition

With many parking facilities at strategic urban locations, Q-Park plays an important role in facilitating EV charging for customers with electric vehicles. Our EV charging infrastructure supports the mobility transition, encouraging sustainable transport.

Parking and charging are a great match. With increasing numbers of battery electric vehicles (BEV) and plug-in hybrid electric vehicles (PHEV) in car fleets, demand for charging infrastructure continues to grow.

EV charging

In 2024, we continued to expand the number of EV charging points we provide in our parking facilities. We have made good progress in the past three years:

- I more parking facilities provide EV charging points;
- I more charging points installed and operated by us;
- I More zero-emission kilometres enabled.

Table 1: EV charging points

	2022	2023	2024
PFs offering EV charging points	235	249	261
Total EV charging points	2,831	4,114	6,854
Operated EV charging points	1,664	2,996	4,708
Zero-emission kms enabled (millions)	43.00	48.50	77.70

Proof of concepts

LED lighting

From 2013 to 2019 we carried out a far-reaching LED transformation project. The primary objectives were to reduce energy consumption, reduce energy costs, and decrease our carbon footprint.

At the time, we upgraded the lighting systems in more than 300 parking facilities, selection based on the business case per location. As part of our maintenance responsibilities and our obligations under the EU Energy Performance of Buildings Directive (EPBD), we continue to replace inefficient lighting systems with LED lighting with smart management throughout our portfolio.

Solar power and battery storage

Across our portfolio, we have identified over a hundred parking facilities with exposed rooftops which are potentially suitable for solar and/or wind power generation. In the medium-term, we will develop

several pilots to expand our knowledge and gain further experience.

Energy procurement: balancing supply and demand

We are defining an energy procurement strategy with a focus on:

- I developing guidelines for pricing and energy supply contracts;
- I embedding monitoring the energy market centrally.

Grip-on-Grid

To provide even more EV charging points in our parking facilities we need to upgrade our electricity supply. This can be complex and time-consuming, so we are developing a standard approach with action plans per geographical area under the name 'Grip-on-Grid'.

More information about our energy portfolio management, please refer to our online showcase.