

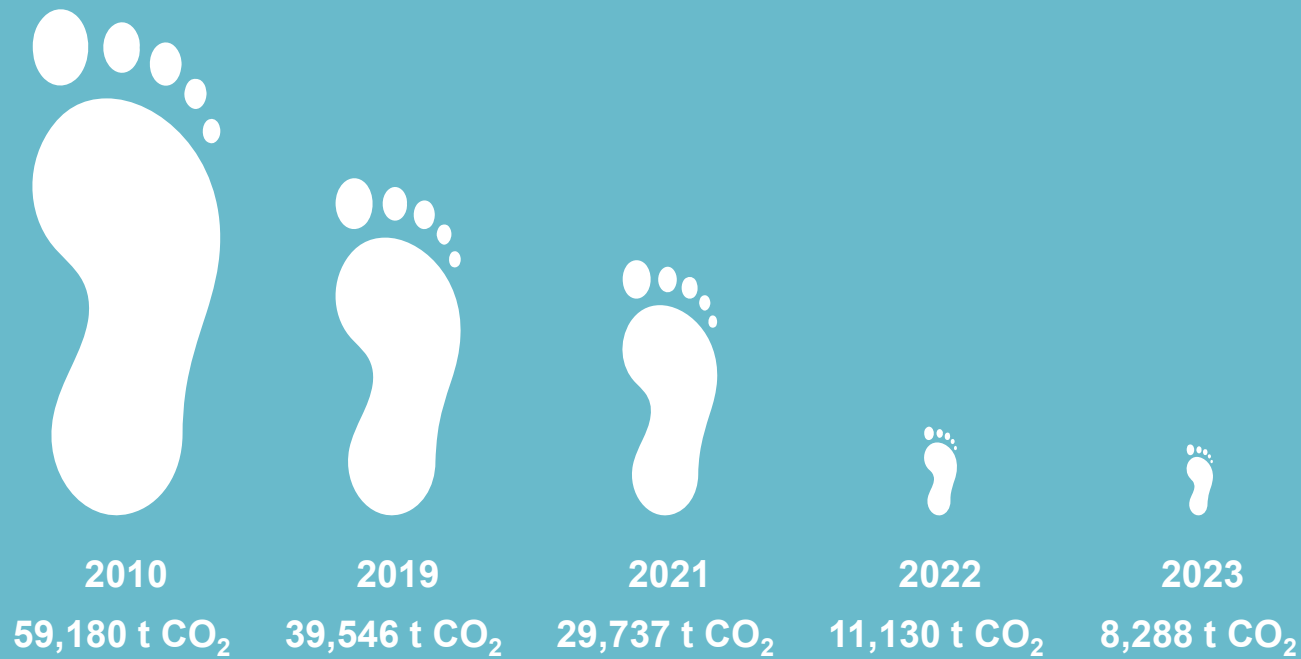


Düsseldorf Airport Roadmap to Net Zero 2045

On the way to a sustainable future

Carbon neutral by 2035, net zero emissions by 2045

Already achieved: -86% compared to 2010



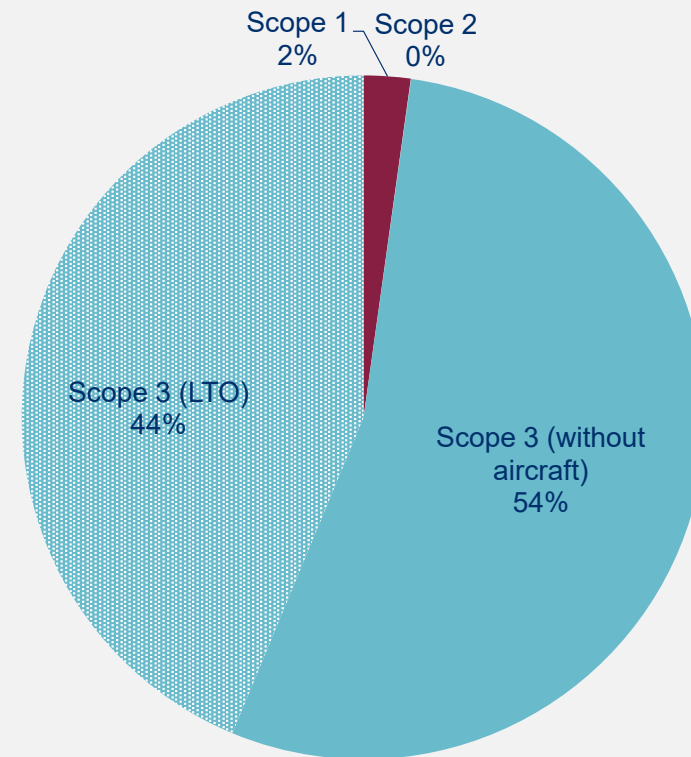
Goal



CO₂-Emissions DUS

Scope 1, 2 und 3

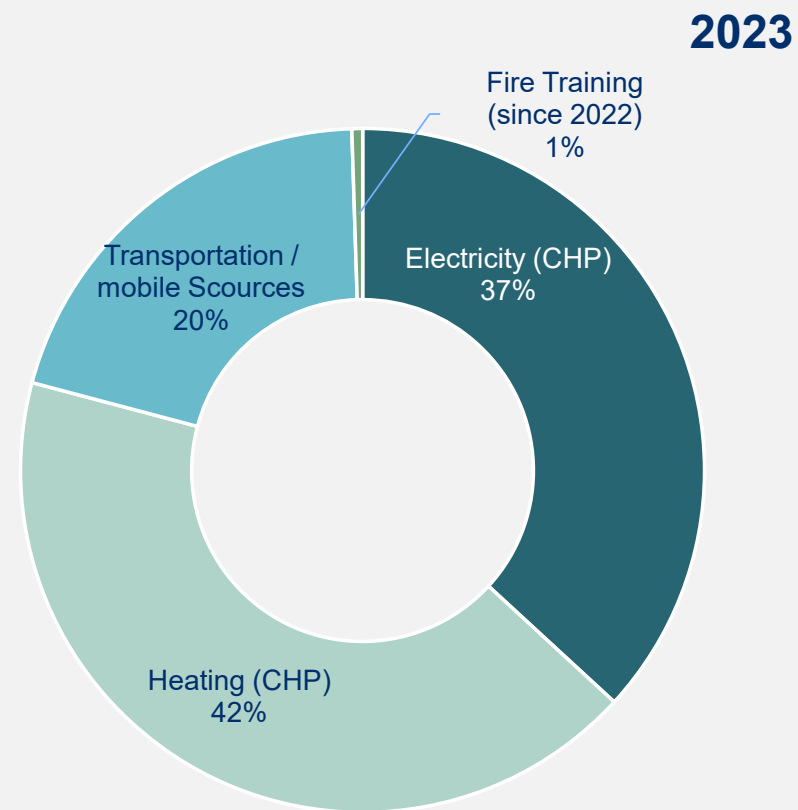
Yearly Emissions (t CO ₂)	2023
Scope 1	8.252
Scope 2	36
Scope 3	364.737
Sum	373.025



CO₂-Emissions DUS

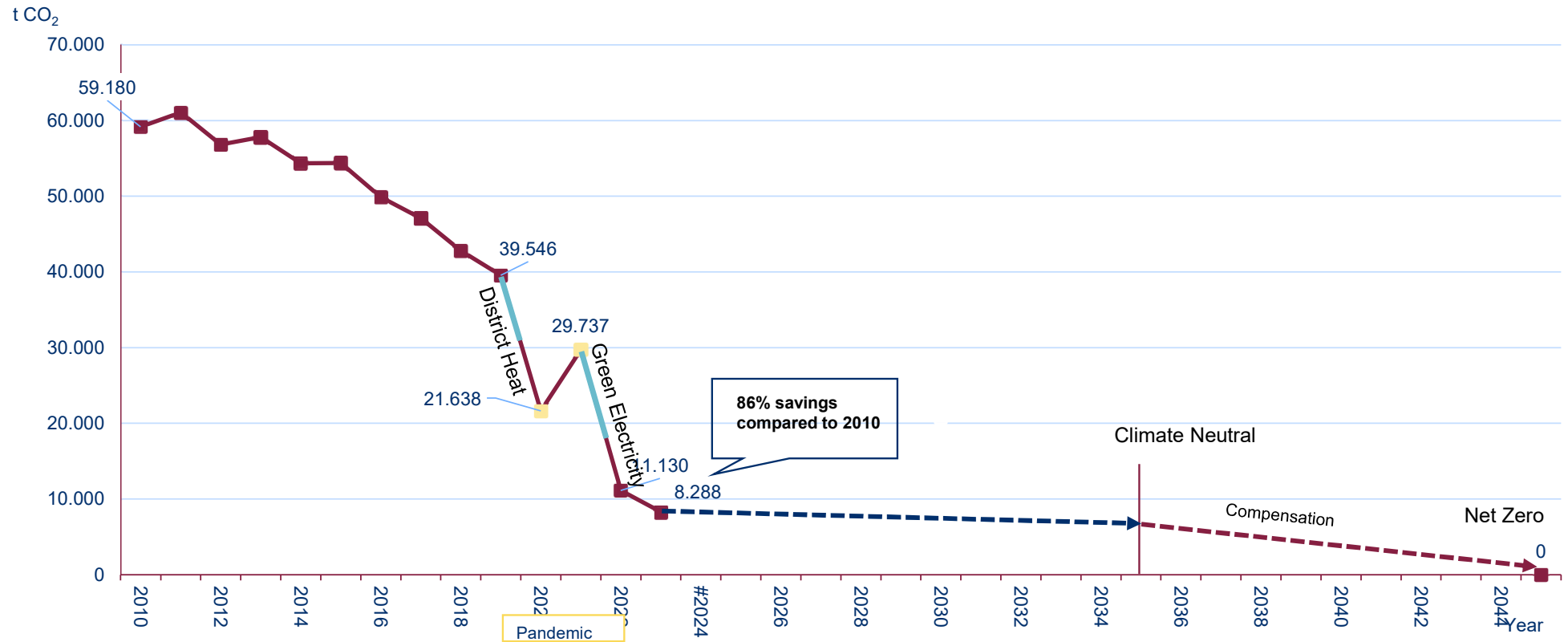
Details Scope 1 and 2

Yearly Emissions (t CO ₂)	2010	2023
Scope 1	28,830	8,252
Scope 2	30,350	36
Sum	59,180	8,288



Our way to net zero

Net zero emissions by 2045



On the way to net zero emissions

Saying goodbye to fossil age



Environmentally friendly energy supply

Photovoltaic systems and modern combined heat and power plants at the site, District heating and TÜV-certified green electricity



Promoting sustainable aviation

Incentives for the use of low-emission and low-noise aircraft types, support for airlines switching from fossil paraffin to SAF



Carbon neutral mobility

Conversion of light commercial vehicles and cars to electric drives, expansion of charging infrastructure, optimised connection to rail and public transport



Sustainable construction

Realisation of new fire station with photovoltaics, solar thermal energy, heat pumps and green roof; optimisation of indoor air systems, smart technology for temperature control



Future technologies

Realisation of hydrogen filling station, cluster initiative for the production and provision of sustainable aviation fuel



Cluster initiatives / partnerships

Innovation partnership with EUREF, joint project HyPerformer Rhine-Ruhr region, Düsseldorf Climate Pact, exchange with start-ups

Our Road to Zero.

Saying goodbye to fossil age

DUS creates the infrastructure for clean mobility.

H₂

Hydrogen use / hydrogen filling station and passenger buses



Electrification of vehicle fleet



Expansion of e-charging infrastructure



Sustainable fuels for ground mobility and aviation



E-tractors and baggage trolleys



Electric propulsion systems for aircraft

Elektromobility DUS

E-Vehicle fleet



in 2021
32 %



bis 2030
50 %



bis 2045
100 %

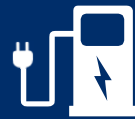
Charging infrastructure



in 2021
44



in 2023
150



bis 2025
400



Environmentally friendly energy supply

Renewable energy production @ DUS



- First photovoltaic installation on an apron in Germany
- Producing 5 million kW/h electricity
- Saving more than 3,650 t CO₂ per year

Commissioning in 2025: one of the largest photovoltaic installations on an apron in Germany

- New solar farm coming, 150,000 m² next to northern runway
- Producing 15.5 million kW/h electricity per year
- Saving more than 3,600 t CO₂ per year
- 16 MW/peak – building of power storage
- "PPA model" (Power Purchase Agreement): Partner builds and operates the plant, all of the electricity generated is fed into the airport grid



Sustainable construction

Smart technology for temperature control @ DUS



Meteoviva: Predictive, simulation-based indoor climate control

Energy savings

- 2,350 tons of CO₂/year
- 13,408 MWh/year (heating)
- 1,562 MWh/year (cooling)
- 1,606 MWh/year (electricity)

Completion 2025



Promoting sustainable aviation

Sustainable aviation fuel @ DUS



- Long-term increase in SAF fuelling via partnerships
- Binding, increasing SAF quotas from 2025 with 2% and up to 63% in 2050
- DUS Airport charges set SAF incentives
- Influence on SAF value chain limited → focus on establishing partnerships to produce SAF in NRW



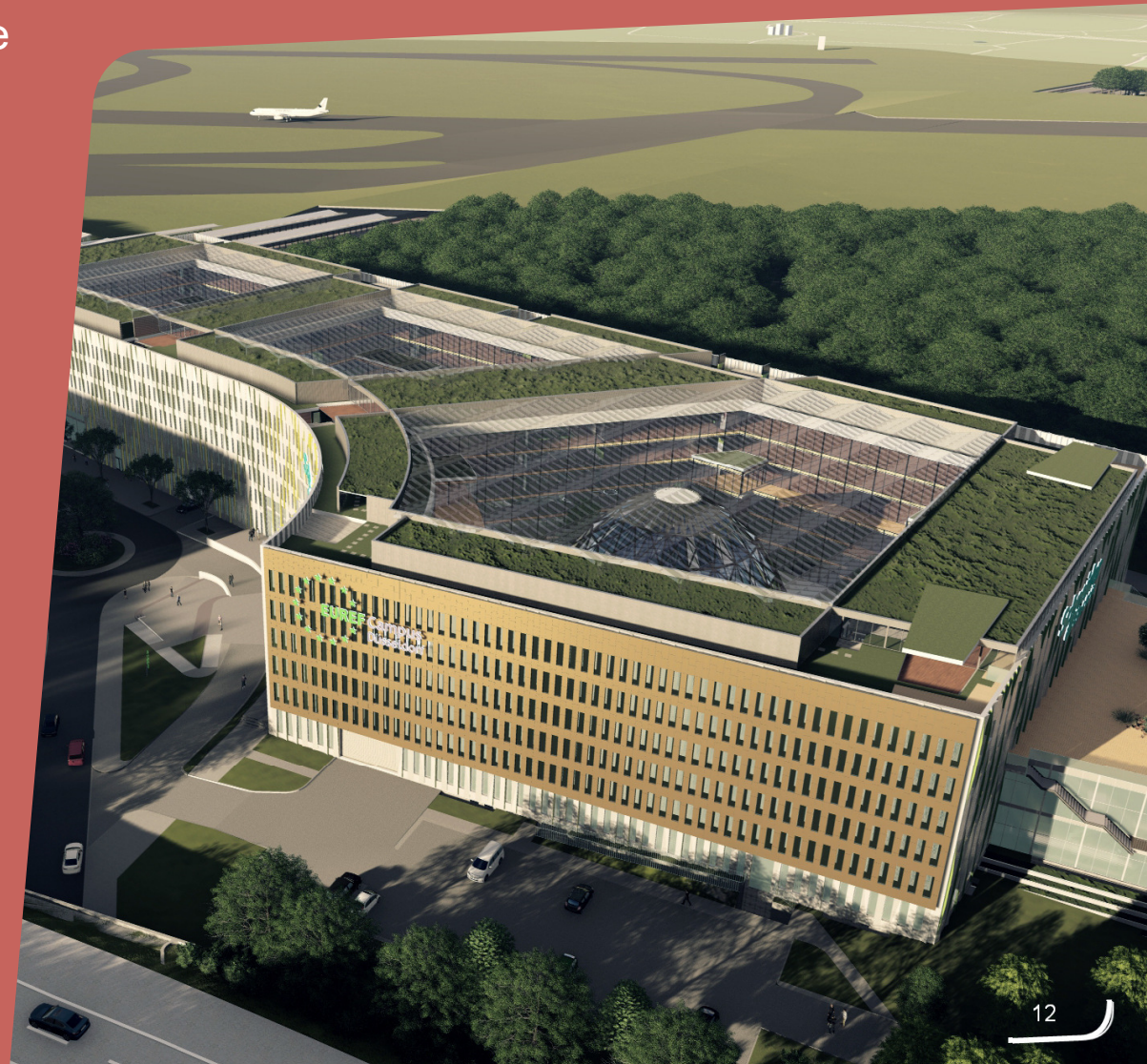
Working together to protect the climate

Strategic partnership in the field of sustainable energy and mobility



Cooperation with the EUREF Campus:

- Technological impetus for energy efficiency in building sector
- Technologies for decarbonizing air and landside transport, e.g. hydrogen technology
- Production and supply of sustainable aviation fuel (CO₂-neutral kerosene)
- Strengthening intermodality
- Research and teaching in real lab
- **In planning:** joint marketing of event spaces





Düsseldorf Airport

Flughafenstraße 105
40474 Düsseldorf
+49 211 421 2121 0

info@dus.com
www.dus.com

