



# RECHARGE INSIGHTS Q2 2023



# WELCOME TO RECHARGE INSIGHTS!

This time we are focusing on the second quarter (Q2) of 2023, as we share information about how EV drivers use our charging stations in Norway, Sweden and Finland during the months of April, May and June.

I am very proud of the work Recharge did to build a total of 327 new ultra fast charge points during these three months; 180 in Norway, 125 in Sweden and 33 in Finland. This is a record for us, and one that I think few charge point operators have done before us.

In addition to installing 327 ultra fast chargers, we also removed 25 fast chargers. We will continue removing these 50 kilowatt chargers, replacing most of them with ultra fast chargers of up to 400 kilowatts. This will let our customers charge their cars faster and provide more stable operations of our charging infrastructure.

This quarter also saw the opening of our first 400 kilowatt charge points. The location is Esso Rolvsøy in Norway where we now have a modular, load balanced 800 volt system. All electric vehicles can use these chargers, but cars with an 800 volt architecture will get significantly faster charging.

An 800 volt charging station is by itself not breaking news, we have had 1000 volt chargers in our network for years. The fact that these chargers are 800 volt and also modular and load balancing is what makes them stand apart. A central stack of power modules distributes the energy to all the charge points on site, making sure that each car gets the power it needs, no more and no less. This way we don't waste loads of power on cars that can't utilize it, and the cars with 800 volt batteries are ensured high power charging.

Energy delivered from ultra fast chargers continues to increase. This is especially visible in Sweden where the energy delivered at ultra fast chargers grew by 190 percent, to more than 2 gigawatt hours (GWh). Norway also sees a strong growth of 97 percent, meaning we delivered almost 7.5 GWh of energy to Norwegian EV drivers at ultra fast charge points. In total Recharge delivered 17.2 GWh across a little more than 800 000 charging sessions. That results in an average energy delivered per session of 21.47 kilowatt hours (kWh), which is an increase of 22 percent from Q2 of 2022. The time spent at charging stations has only increased by 7.4 percent, from 27 to 29 minutes, and we are happy to see that our customers get more energy delivered without having to spend a lot more time at the chargers. We believe this is because more people are driving newer cars with capacity for faster charging, such as the aforementioned cars with 800 volt batteries. It might also mean that people are utilizing the charge points in a better way – charging when the battery is warm and low on energy.

You'll find these and many more findings on the following pages. We always appreciate hearing your thoughts on the information we have decided to share, and your wishes for future editions of Recharge Insights. Please send your ideas to [insights@rechargeinfra.com](mailto:insights@rechargeinfra.com) and go to [rechargeinfra.com/insights](https://rechargeinfra.com/insights) to subscribe.



Kind regards,

A stylized, handwritten signature in white ink, consisting of a series of loops and a long horizontal stroke extending to the right.

**Håkon Vist**  
CEO

NEW CHARGE POINTS **Q2 2023****338**TOTAL CHARGE POINTS | **4344****Slow chargers**  
from 3 kW - 22 kW**-29 | +10**  
Charge points**1908**

Total

**Fast chargers**  
from 50 kW - 149 kW**-25 | +1**  
Charge points**790**

Total

**Ultra fast chargers**  
from 150 kW - 350 kW**+327**  
Charge points**1646**

Total



ENERGY DELIVERED | kWh

17 220 683 kWh

Slow chargers 941 980 kWh | Fast chargers 5 240 261 kWh

Ultra fast chargers 11 038 442 kWh



Type 2

985 358 kWh



CCS

14 818 373 kWh

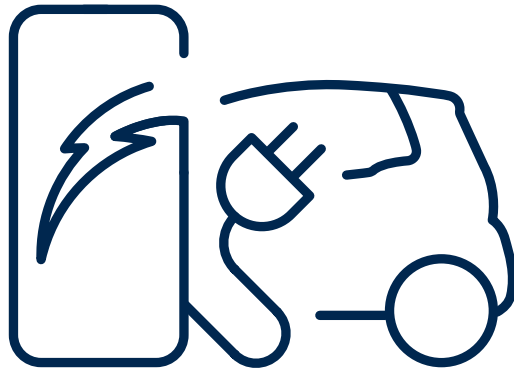


CHAdeMO

1 416 953 kWh



Slow chargers from 3 kW - 22 kW | Fast chargers from 50 kW - 149 kW | Ultra fast chargers from 150 kW - 350 kW



**NUMBER OF SESSIONS**  
**802 067**

Slow chargers **70 304** | Fast chargers **319 533**  
Ultra fast chargers **412 230**



Type 2

**75 795**



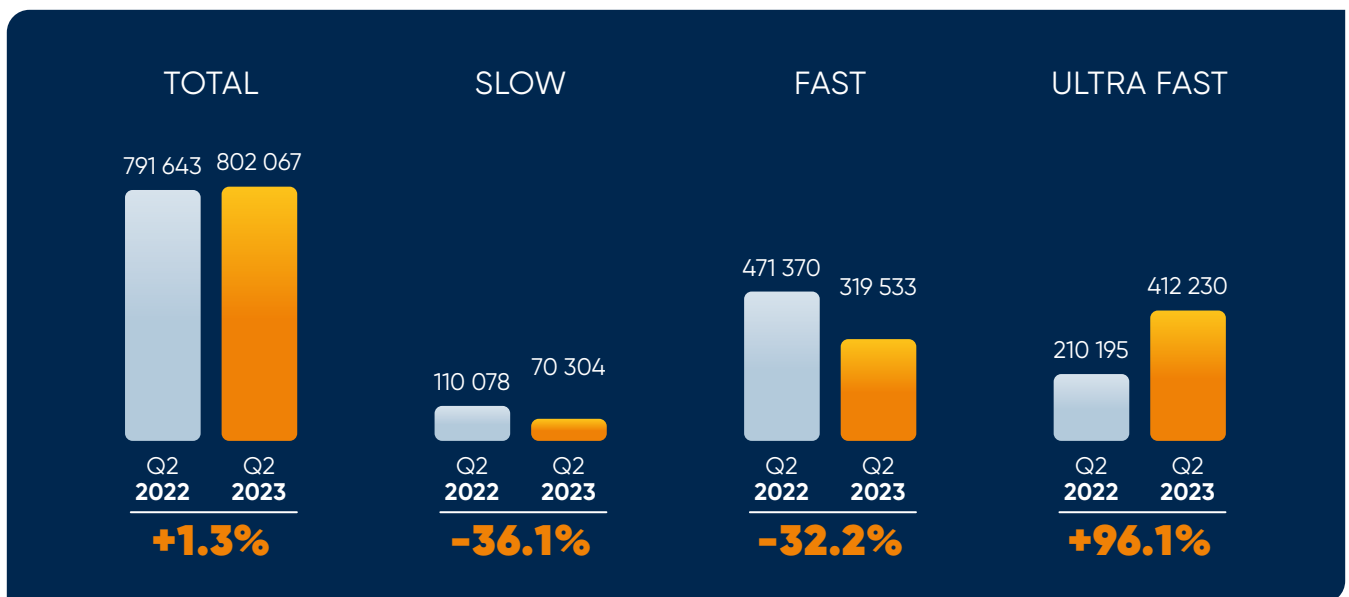
CCS

**597 422**



CHAdeMO

**128 850**



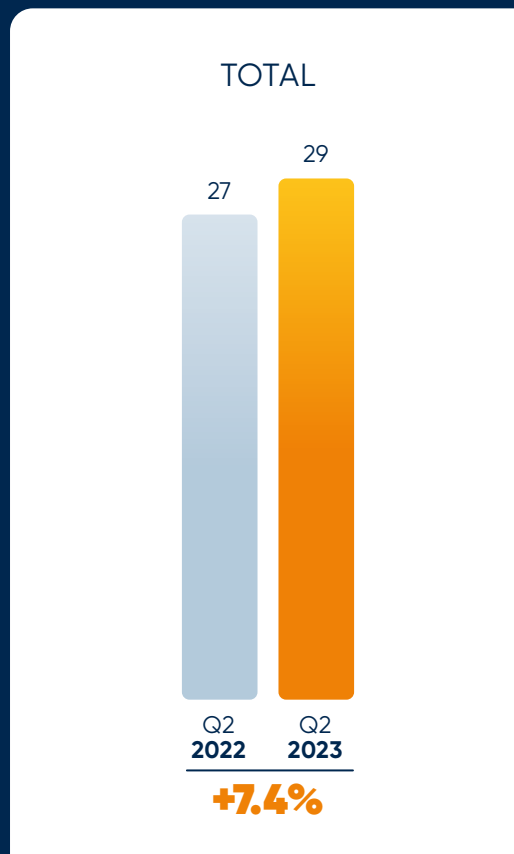
Slow chargers from 3 kW - 22 kW | Fast chargers from 50 kW - 149 kW | Ultra fast chargers from 150 kW - 350 kW

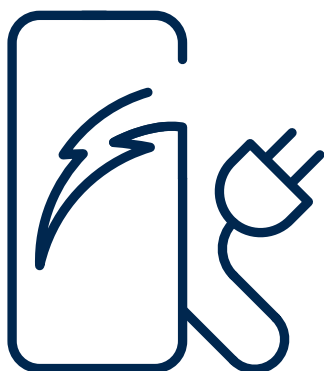


AVERAGE CHARGING TIME  
**28 min**

Fast chargers **29 min** | Ultra fast chargers **27 min**

AVERAGE CHARGING TIME Q2 2022 | **27 MIN**





## AVERAGE ENERGY **DELIVERED PER SESSION**

# 21.47 kWh

Slow chargers **13.40 kWh** | Fast chargers **16.40 kWh**  
Ultra fast chargers **26.78 kWh**



Type 2

**13.00 kWh**



CCS

**24.80 kWh**



CHAdeMO

**11.00 kWh**



Slow chargers from 3 kW - 22 kW | Fast chargers from 50 kW - 149 kW | Ultra fast chargers from 150 kW - 350 kW



KILOMETERS CHARGED IN Q2 2023

86 103 415<sup>\*</sup> KM

<sup>\*</sup> Average of 0.20 kWh per km



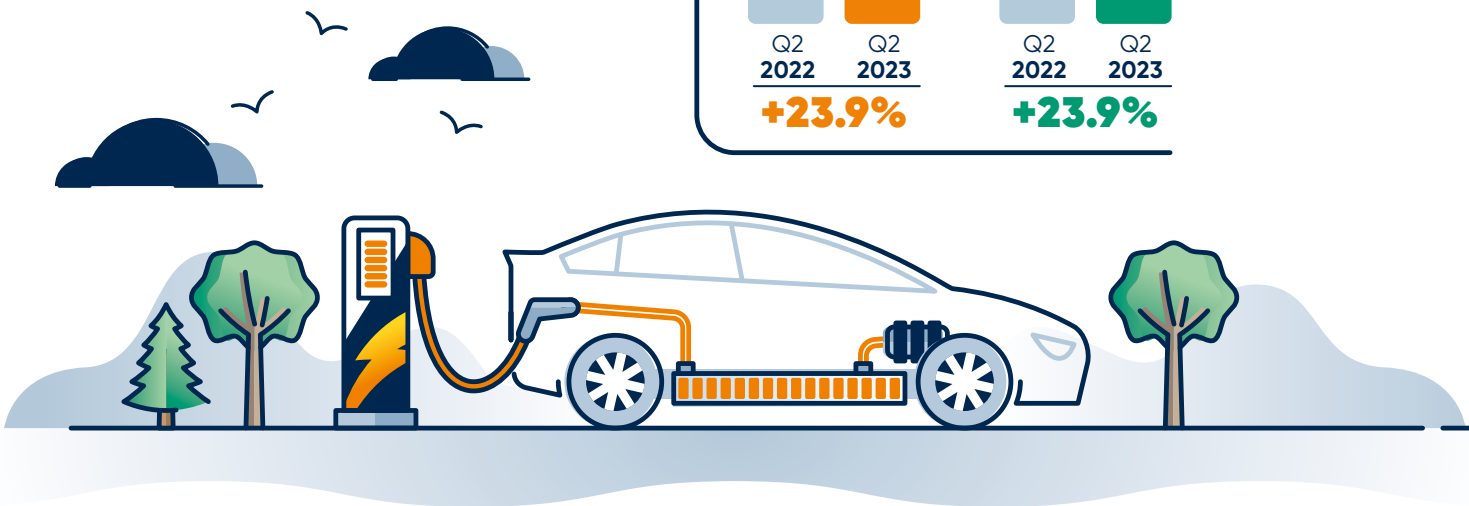
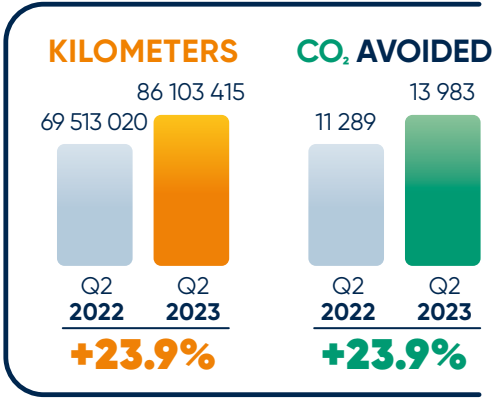
2 149 TIMES AROUND THE EARTH



CO<sub>2</sub> AVOIDED

13 983<sup>\*</sup> TONS

<sup>\*</sup> CO<sub>2</sub> calculation: 1 km = 162.4 gram CO<sub>2</sub>







## NUMBER OF **EMPLOYEES Q2 2023**

# 70

NUMBER OF **EMPLOYEES Q2 2022** | 50

## EMPLOYEES BY **COUNTRY Q2 2023**

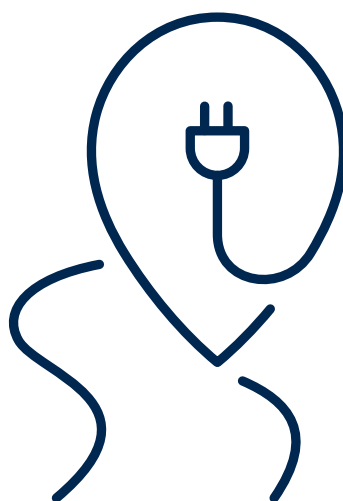




# RECHARGE INSIGHTS NORWAY Q2 2023



HER KAN DU LAD  
ELBIL



**New locations:** Coop Extra Kaupanger | Esso Bekkefarete | Esso Holmlia | Esso Rolvsøy | Esso Rugtvedt | Grønli Oslo | McDonald's Eidsvoll Verk | Shell Bilbyn | Shell Bjerkvik | Shell Bolsønes | Shell Haugåsveien | Shell Sande | Shell Solakrossen | Shell Stjørdal | Shell Åsby | Sogn Stormarked Kaupanger | Spar Sundbyfoss | Stovner Oslo |

**Upgraded locations:** IKEA Åsane | Magneten | Shell Koppang | Spar Drangedal | YX Jaren |



| Esso Rugtvedt |

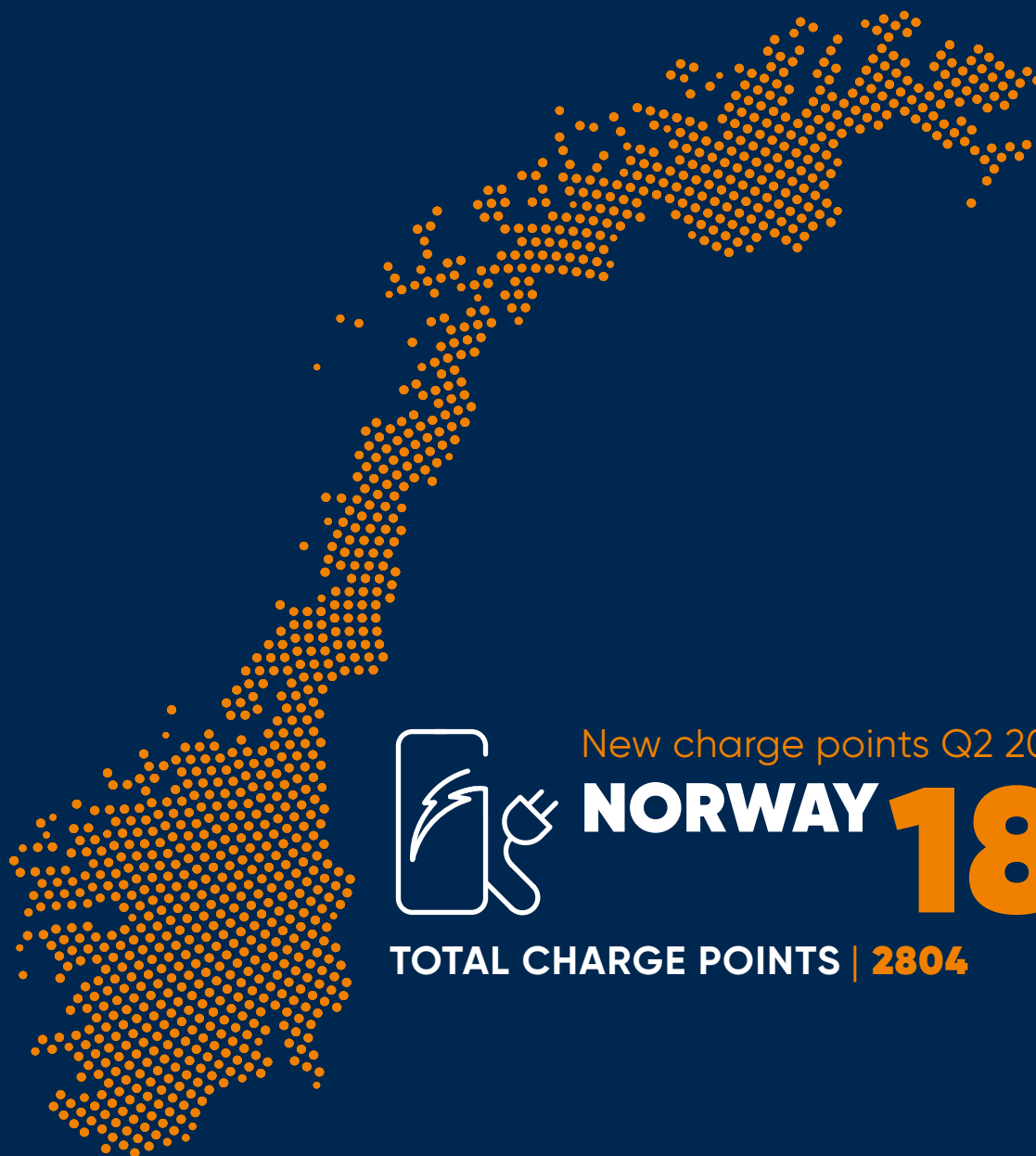


| Coop Extra Kaupanger |



| Shell Bjerkvik |





New charge points Q2 2023

**NORWAY** **180**

**TOTAL CHARGE POINTS | 2804**



**Slow chargers**  
from 3 kW – 22 kW

**-32**

Charge points

**1 237**

Total



**Fast chargers**  
from 50 kW – 149 kW

**-21**

Charge points

**588**

Total



**Ultra fast chargers**  
from 150 kW – 350 kW

**+180**

Charge points

**979**

Total



**ENERGY DELIVERED | kWh**  
**12 591 100 kWh**

Slow chargers **695 134 kWh** | Fast chargers **4 423 109 kWh**  
 Ultra fast chargers **7 472 857 kWh**



Type 2

**711 434 kWh**



CCS

**10 583 798 kWh**

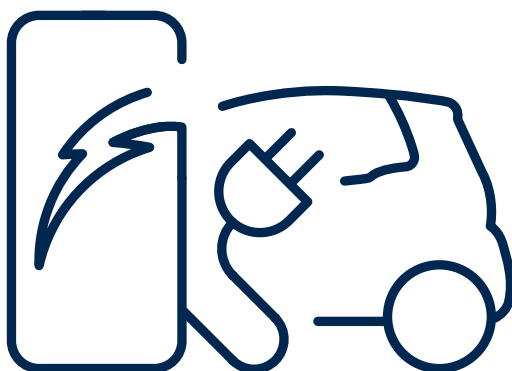


CHAdeMO

**1 295 868 kWh**



Slow chargers from 3 kW - 22 kW | Fast chargers from 50 kW - 149 kW | Ultra fast chargers from 150 kW - 350 kW



## NUMBER OF SESSIONS

# 618 212

Slow chargers **43 199 kWh** | Fast chargers **275 540 kWh**

Ultra fast chargers **299 473 kWh**



Type 2

**45 634**



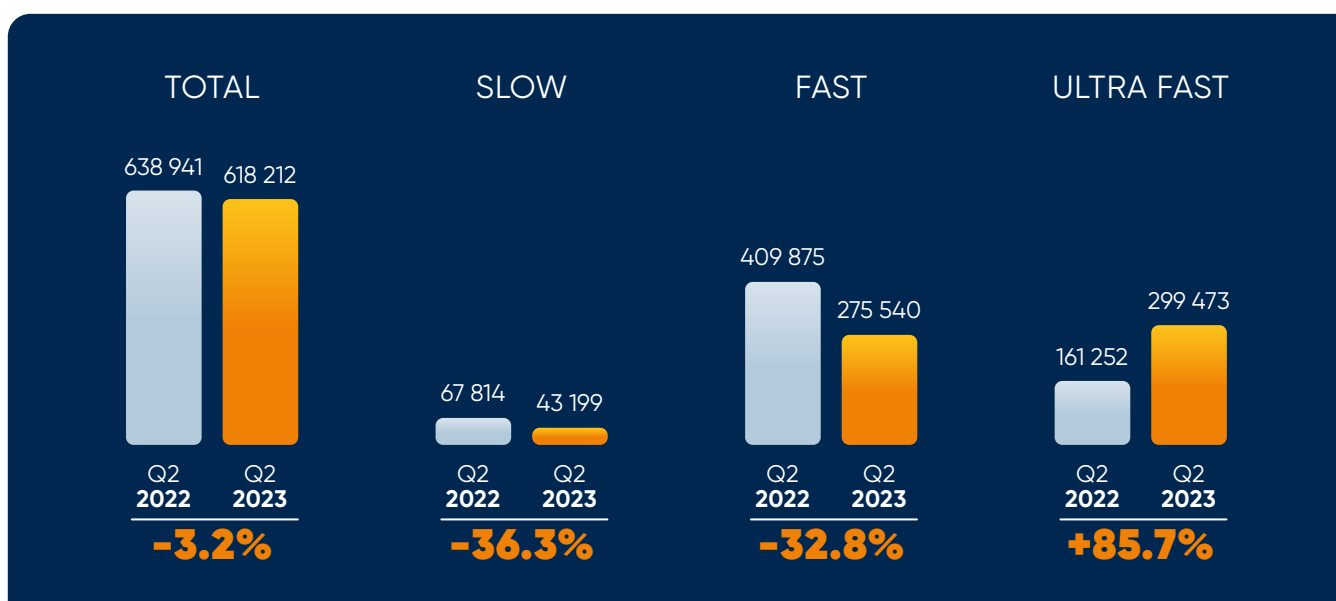
CCS

**452 743**



CHAdeMO

**119 835**



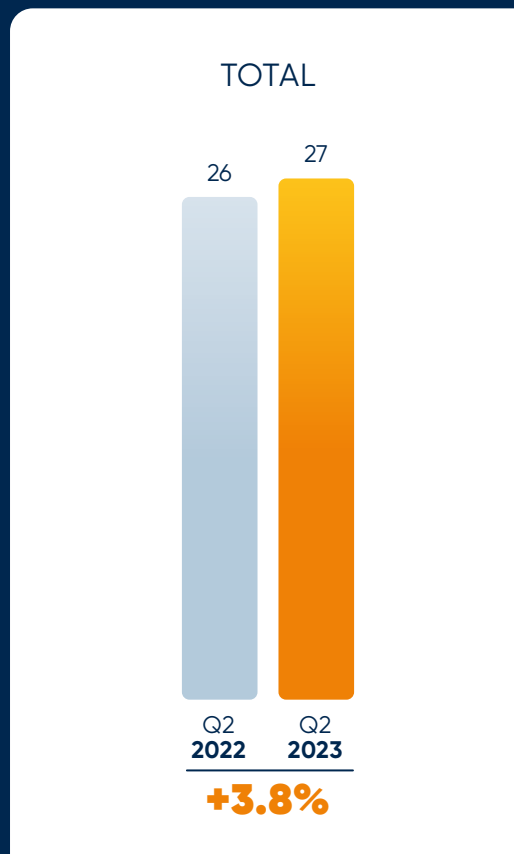
Slow chargers from 3 kW - 22 kW | Fast chargers from 50 kW - 149 kW | Ultra fast chargers from 150 kW - 350 kW

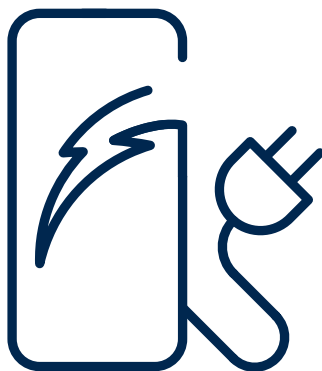


AVERAGE CHARGING TIME  
**27 min**

Fast chargers **29 min** | Ultra fast chargers **26 min**

AVERAGE CHARGING TIME Q2 2022 | **26 MIN**



AVERAGE ENERGY **DELIVERED PER SESSION****20.37 kWh**Slow chargers **16.09 kWh** | Fast chargers **16.05 kWh**Ultra fast chargers **24.95 kWh**

Type 2

**15.59 kWh**

CCS

**23.38 kWh**

CHAdeMO

**10.81 kWh**

Slow chargers from 3 kW - 22 kW | Fast chargers from 50 kW - 149 kW | Ultra fast chargers from 150 kW - 350 kW

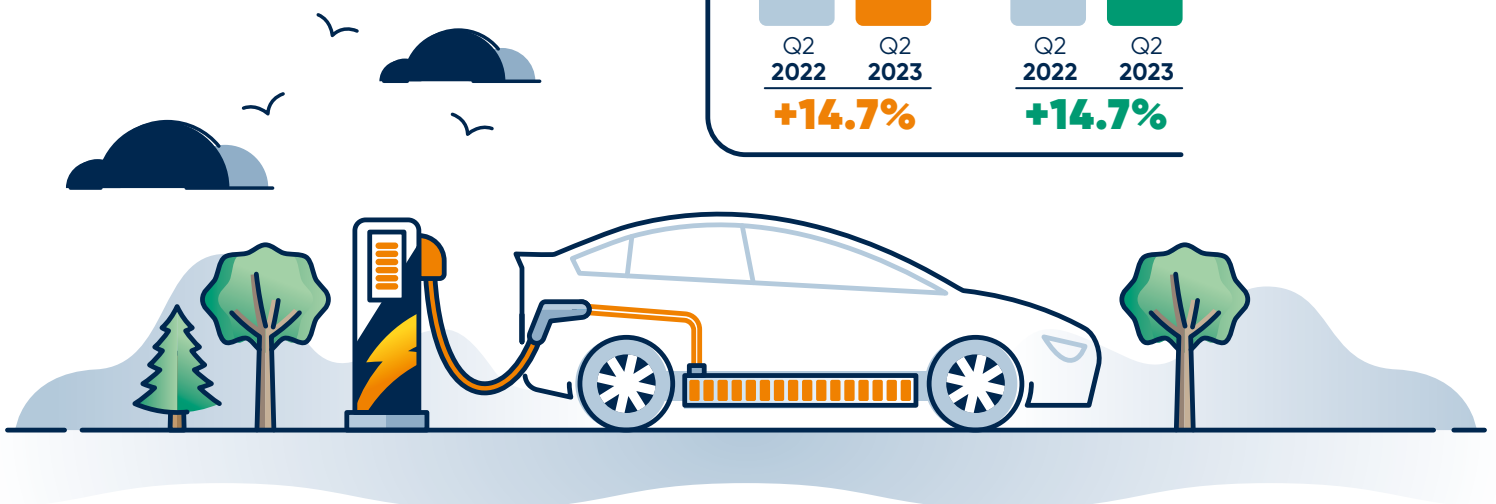
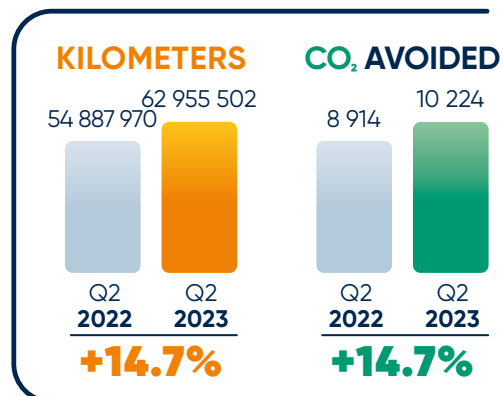




## KILOMETERS CHARGED IN Q2 2023

**62 955 502** <sup>\*</sup> KM

\* Average of 0.20 kWh per km

**1 571** TIMES AROUND THE EARTH**CO<sub>2</sub> AVOIDED****10 224** <sup>\*</sup> TONS\* CO<sub>2</sub> calculation: 1 km = 162.4 gram CO<sub>2</sub>

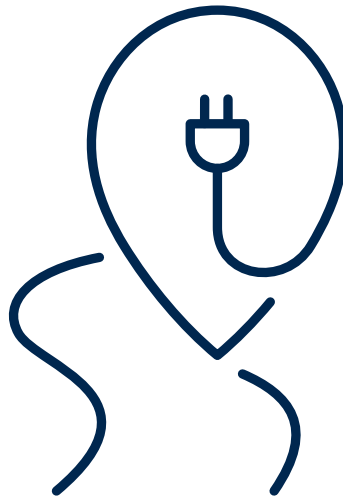
# RECHARGE INSIGHTS

# SWEDEN

## Q2 2023







**New locations:** Burger King Värnamo | McDonald's Västra Frölunda | McDonald's Borås Göteborgsvägen | IKEA Bäckebo | Hofors Sibylla | McDonald's Sundsvall Birsta | IKEA Örebro | Burger King Västervik | Preem Örebro Lars Wivallius Väg | Burger King Eksjö | Diner45 Sunne |

**Upgraded locations:** McDonald's Gotland Visby | Preem Borås Hultagatan | McDonald's Värnamo | McDonald's Ulricehamn |



| Burger King Eksjö |



| IKEA Örebro |



| McDonald's Västra Frölunda |



New charge points Q2 2023

**SWEDEN** **125**

**TOTAL CHARGE POINTS | 652**



**Slow chargers**  
from 3 kW – 22 kW

**10**

Charge points

**206**

Total



**Fast chargers**  
from 50 kW – 149 kW

**-5**

Charge points

**106**

Total



**Ultra fast chargers**  
from 150 kW – 350 kW

**+115**

Charge points

**340**

Total



ENERGY DELIVERED | kWh  
**2 706 728 kWh**

Slow chargers **43 167 kWh** | Fast chargers **577 919 kWh**  
 Ultra fast chargers **2 085 642 kWh**



Type 2

**75 411 kWh**



CCS

**2 558 550 kWh**

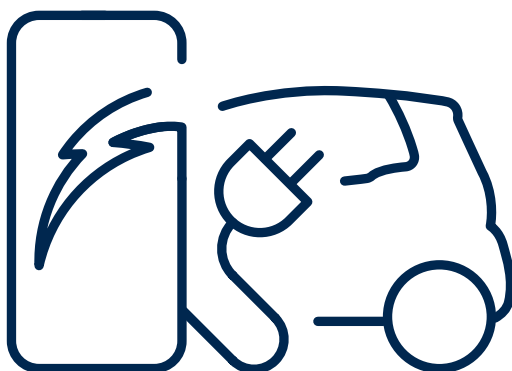


CHAdeMO

**72 766 kWh**



Slow chargers from 3 kW - 22 kW | Fast chargers from 50 kW - 149 kW | Ultra fast chargers from 150 kW - 350 kW



## NUMBER OF SESSIONS

# 98 709

Slow chargers **3 996** | Fast chargers **28 749**

Ultra fast chargers **65 964**



Type 2

**6 826**



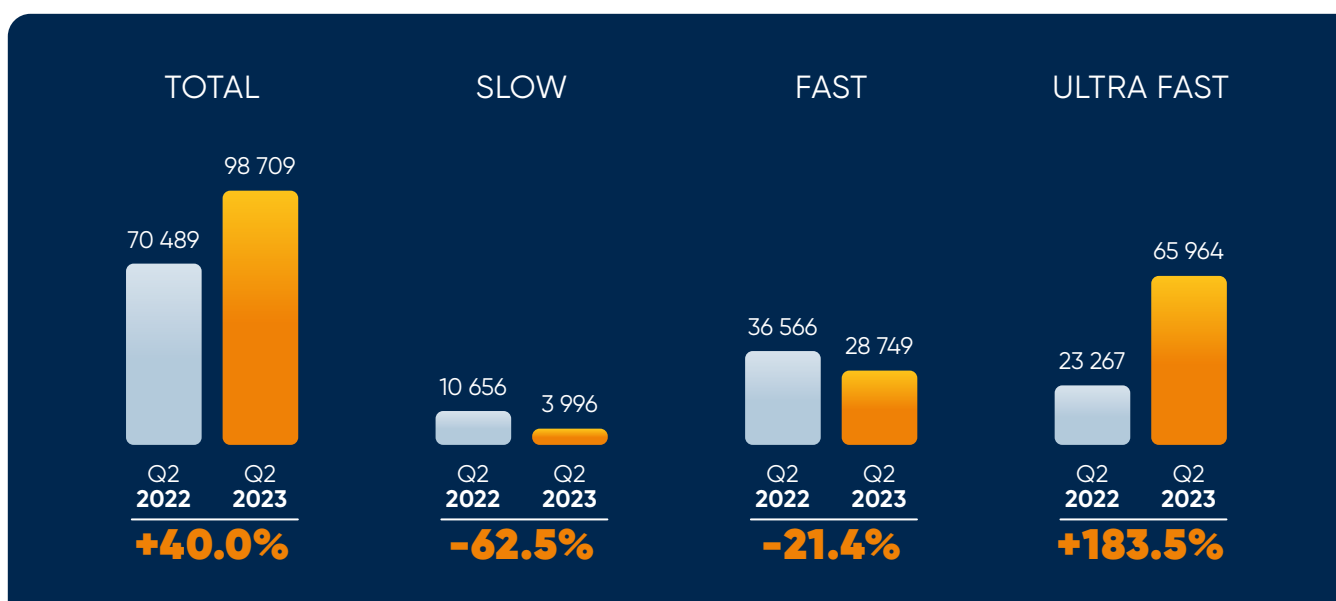
CCS

**86 921**



CHAdeMO

**4 962**



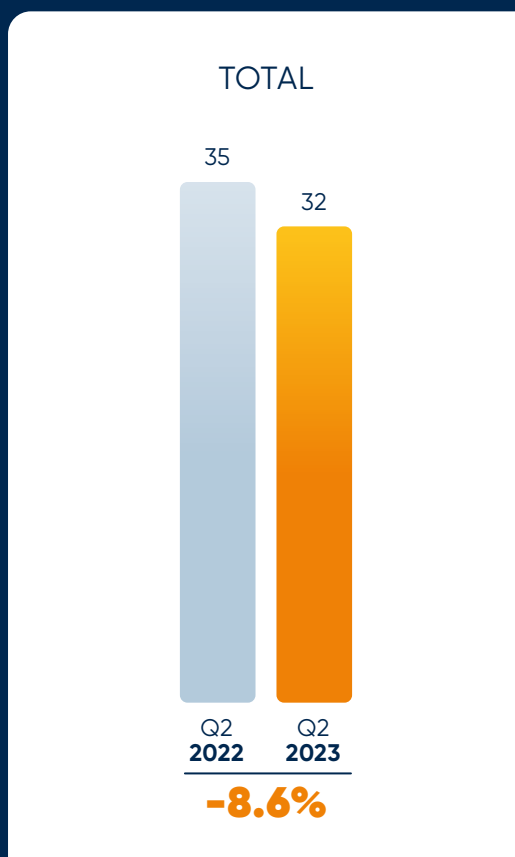
Slow chargers from 3 kW - 22 kW | Fast chargers from 50 kW - 149 kW | Ultra fast chargers from 150 kW - 350 kW

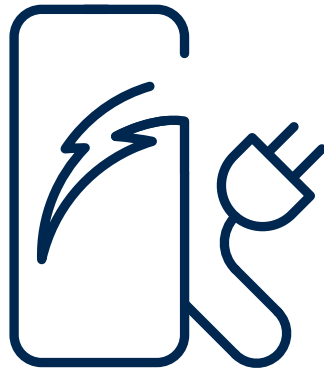


## **AVERAGE CHARGING TIME** **32 min**

Fast chargers **37 min** | Ultra fast chargers **30 min**

**AVERAGE CHARGING TIME Q2 2022 | 35 MIN**



AVERAGE ENERGY **DELIVERED PER SESSION****27.42 kWh**

Slow chargers **10.80 kWh** | Fast chargers **20.10 kWh**  
Ultra fast chargers **31.62 kWh**



Type 2

**11.05 kWh**

CCS

**29.44 kWh**

CHAdeMO

**14.66 kWh**

Slow chargers from 3 kW - 22 kW | Fast chargers from 50 kW - 149 kW | Ultra fast chargers from 150 kW - 350 kW





## KILOMETERS CHARGED IN Q2 2023

# 13 533 638<sup>\*</sup> KM

<sup>\*</sup> Average of 0.20 kWh per km



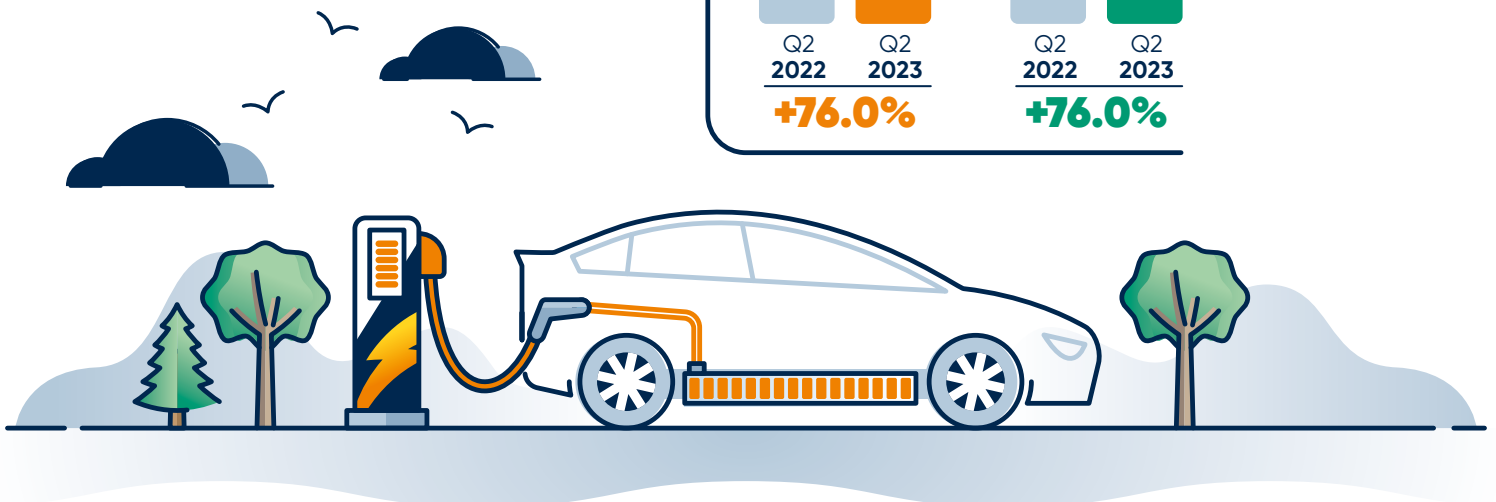
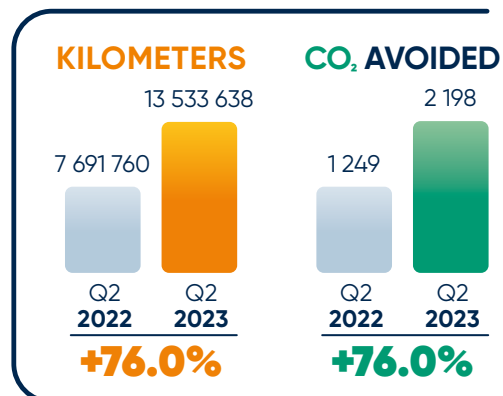
### 338 TIMES AROUND THE EARTH



### CO<sub>2</sub> AVOIDED

# 2 198<sup>\*</sup> TONS

<sup>\*</sup> CO<sub>2</sub> calculation: 1 km = 162.4 gram CO<sub>2</sub>

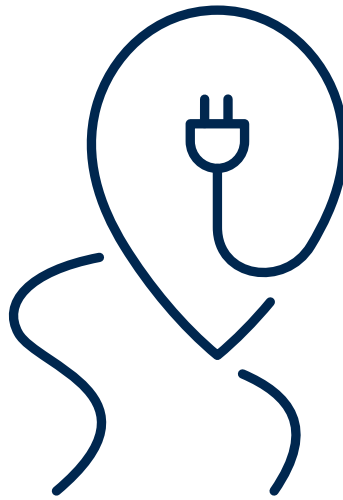


# RECHARGE INSIGHTS

# FINLAND

## Q2 2023





**New locations:** Helsinki Outlet | McDonald's Pori, Musa | Muurlan tehtaanmyymälä | McDonald's Lohja, Lempola | McDonald's Riihimäki | P-Satama Lutakko, Jyväskylä |

**Upgraded locations:** Karoliinan Kahvimylly ja Kestikievari | Verkatehdas, Hämeenlinna |



| McDonald's Lohja, Lempola |



| Helsinki Outlet |

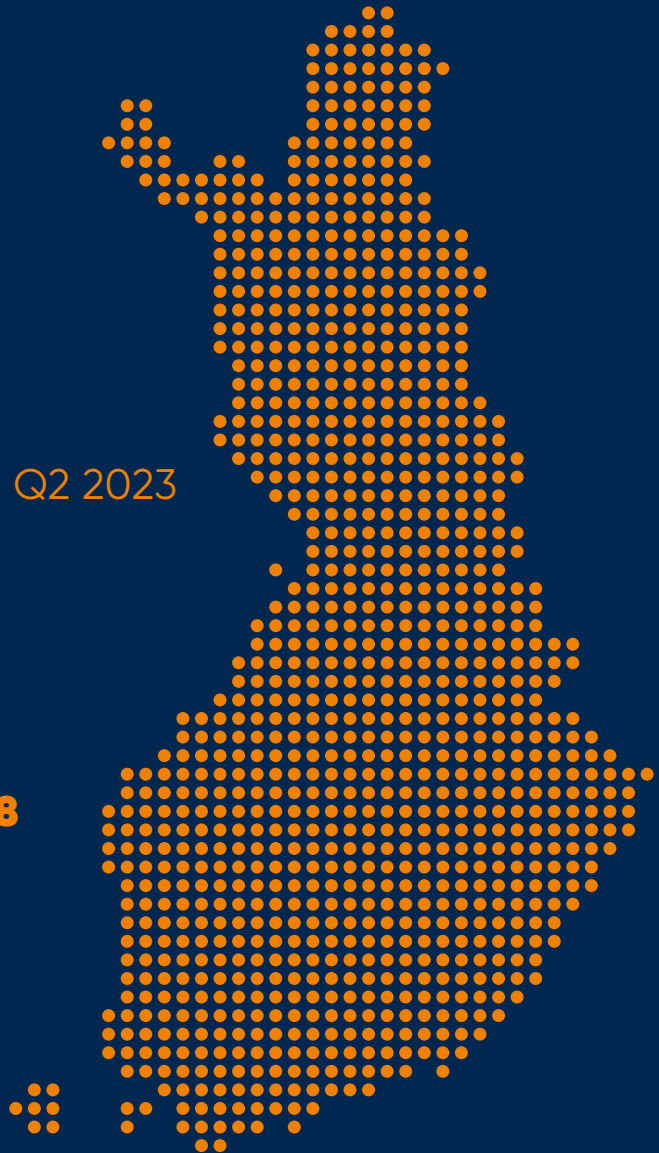


| Muurlan tehtaanmyymälä |





New charge points Q2 2023

**FINLAND****33****TOTAL CHARGE POINTS | 888****Slow chargers**  
from 3 kW – 22 kW**-7**

Charge points

**465**

Total

**Fast chargers**  
from 50 kW – 149 kW**+1**

Charge points

**96**

Total

**Ultra fast chargers**  
from 150 kW – 350 kW**+32**

Charge points

**327**

Total



ENERGY DELIVERED | kWh  
**1 922 855 kWh**

Slow chargers **203 679 kWh** | Fast chargers **239 233 kWh**  
 Ultra fast chargers **1 479 942 kWh**



Type 2

**198 513 kWh**

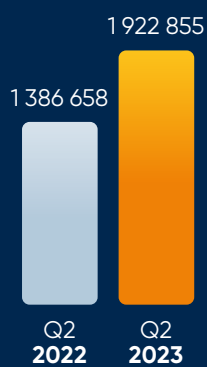
CCS

**1 676 024 kWh**

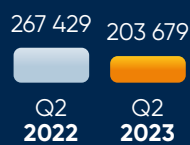
CHAdeMO

**48 319 kWh**

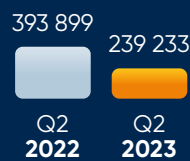
## TOTAL

**+38.7%**

## SLOW

**-23.8%**

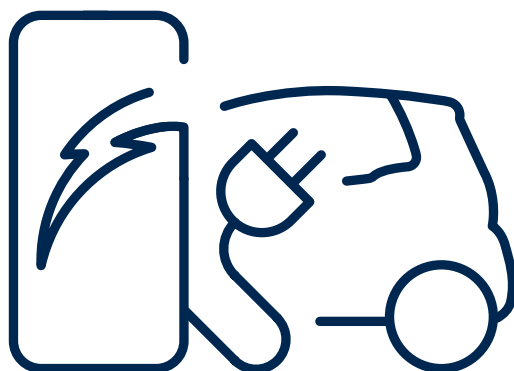
## FAST

**-39.3%**

## ULTRA FAST

**+104.0%**

Slow chargers from 3 kW - 22 kW | Fast chargers from 50 kW - 149 kW | Ultra fast chargers from 150 kW - 350 kW



## NUMBER OF SESSIONS

**85 146**Slow chargers **23 109** | Fast chargers **15 244**Ultra fast chargers **46 793**

Type 2

**23 335**

CCS

**57 758**

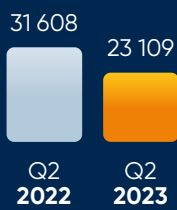
CHAdeMO

**4 053**

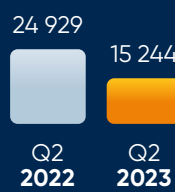
## TOTAL

**+3.6%**

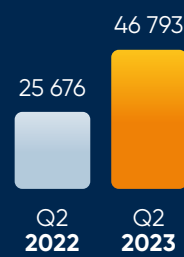
## SLOW

**-26.9%**

## FAST

**-38.9%**

## ULTRA FAST

**+82.2%**

Slow chargers from 3 kW - 22 kW | Fast chargers from 50 kW - 149 kW | Ultra fast chargers from 150 kW - 350 kW

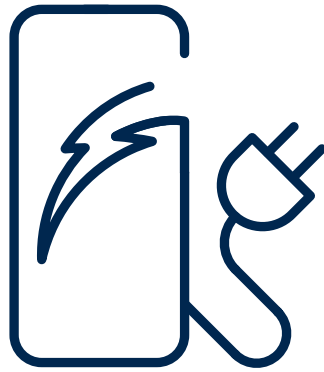


## AVERAGE CHARGING TIME **26 min**

Fast chargers **28 min** | Ultra fast chargers **26 min**

### AVERAGE CHARGING TIME Q2 2022 | **26 MIN**



AVERAGE ENERGY **DELIVERED PER SESSION****22.58 kWh**

Slow chargers **8.81 kWh** | Fast chargers **15.69 kWh**  
Ultra fast chargers **31.63 kWh**



Type 2

**8.51 kWh**

CCS

**29.02 kWh**

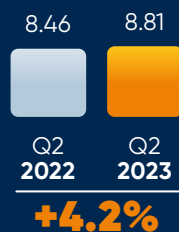
CHAdeMO

**11.92 kWh**

## TOTAL



## SLOW



## FAST



## ULTRA FAST



Slow chargers from 3 kW - 22 kW | Fast chargers from 50 kW - 149 kW | Ultra fast chargers from 150 kW - 350 kW





## KILOMETERS CHARGED IN Q2 2023

# 9 614 275<sup>\*</sup> KM

<sup>\*</sup> Average of 0.20 kWh per km



## 240 TIMES AROUND THE EARTH



## CO<sub>2</sub> AVOIDED

# 1 561<sup>\*</sup> TONS

<sup>\*</sup> CO<sub>2</sub> calculation: 1 km = 162.4 gram CO<sub>2</sub>

### KILOMETERS

9 614 275

6 933 290



Q2  
2022

Q2  
2023

**+38.7%**

### CO<sub>2</sub> AVOIDED

1 561

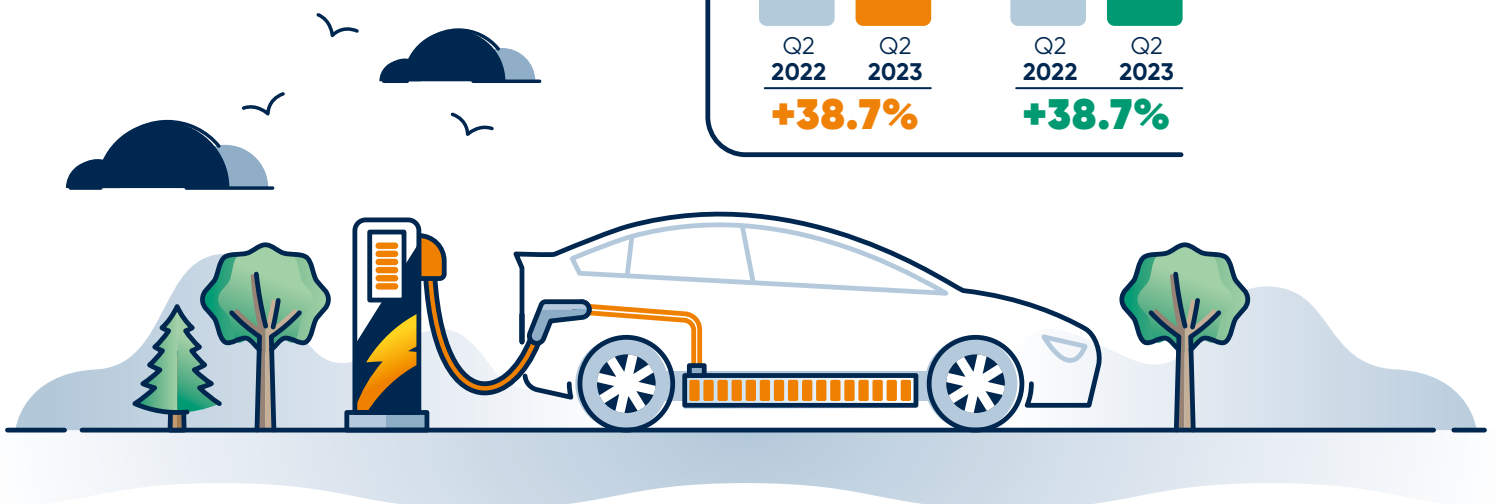
1126



Q2  
2022

Q2  
2023

**+38.7%**





We are always looking  
for great partners in the  
Nordics and beyond.

Read more at  
[rechargeinfra.com](https://rechargeinfra.com)

Contact us at  
[insights@rechargeinfra.com](mailto:insights@rechargeinfra.com)