RECHARGE
DRIVING CHANGE

RECHARGE INSIGHTS Q1 2023

WELCOME TO RECHARGE INSIGHTS!

We are thrilled to publish another edition of Recharge Insights. This time we are diving into the statistics of the first quarter (Q1) of 2023, comparing it with Q1 of 2022.

EV Drivers charge their cars for a longer time in the cold winter months. This is no surprise, as cold weather drains the battery faster, and cars also charge with slightly less power in cold weather. While the average charging time for ultra fast charging sessions during 2022 was 27 minutes, it was 30 minutes during the first three months of 2023.

We see some variations between the different countries: While Finnish EV drivers spend on average 28 minutes at ultra fast chargers and Norwegians 30 minutes, Swedes spend 33 minutes. This difference of 5 minutes between Finland and Sweden might be due to Swedes having more modern electric cars with bigger batteries.

However, this gets really interesting when we start looking at the average energy delivered per ultra fast charging session. Since Swedes charge for a longer time, you would expect them to also get more energy in each session, but the difference between Sweden and Finland is very small. Swedes get an average of 31.8 kWh each charging session, and Finns get 31.39 kWh. This might be a result of Finns charging in a way that is more optimal for high power charging. They might ensure that the battery is warm before charging, or that the battery has a lower percentage when connecting to the charger. Both of these actions will enable the car to charge faster.

Recharge continues to deploy as many ultra fast charge points as possible. We are building brand new charging stations with ultra fast chargers, and also upgrading older fast charging stations where we replace 50 kW charge points with 150 kW+ charge points. That is the reason we have decreased the amount of fast chargers, while ultra fast charge points has increased by 142. We are also divesting parts of our slow chargers and have therefore reduced the number of slow charge points.

The usage of ultra fast charge points is growing rapidly. Compared with Q1 of 2022, the number of sessions increased by 167.2 percent and the amount of energy delivered at ultra fast charge points increased 197.4 percent. Each charge point is being used more than before. While each ultra fast charge point on average delivered 6702 kilowatt hours (kWh) in Q1 2022, this figure increased to 8328 kWh in Q1 2023.

These are just some of the findings in this edition of Recharge Insights. We appreciate all the feedback we have received so far, and we are happy that our insights are being read far beyond the Nordic countries. We would love to hear 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 and go to rechargeinfra.com/insights to subscribe.

Kind regards,

Håkon Vist
CEO

NEW CHARGE POINTS Q1 2023

142

TOTAL CHARGE POINTS | **4071**

Slow chargers
from 3 kW - 22 kW

-31
Charge points

1937
Total

Fast chargers
from 50 kW - 149 kW

-25
Charge points

815
Total

Ultra fast chargers
from 150 kW - 350 kW

+142
Charge points

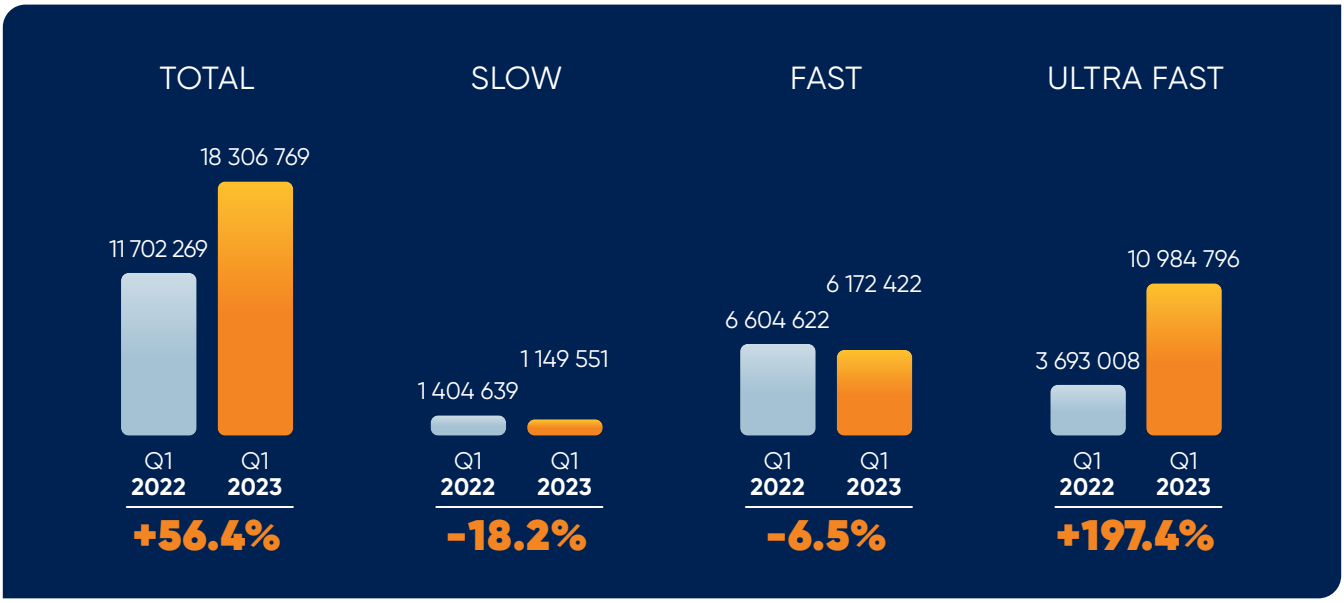
1319
Total

ENERGY DELIVERED | kWh

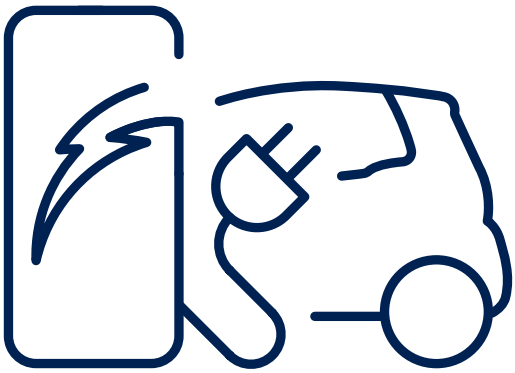
18 306 769 kWh

Slow chargers **1 042 060 kWh** | Fast chargers **6 279 913 kWh**
Ultra fast chargers **10 984 796 kWh**

Type 2	CCS	CHAdeMO
1 215 200 kWh	**15 544 452 kWh**	**1 547 117 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

873 191

Slow chargers **82 250** | Fast chargers **376 001**
Ultra fast chargers **414 940**

Type 2

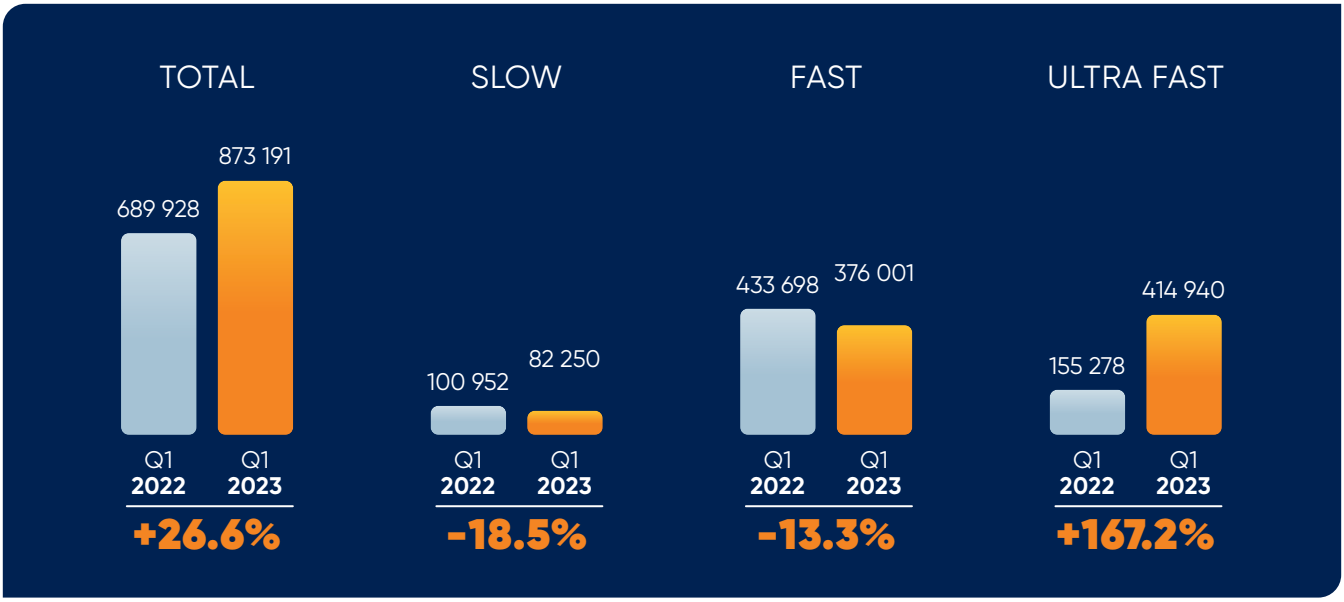
88 590

CCS

640 910

CHAdeMO

143 691



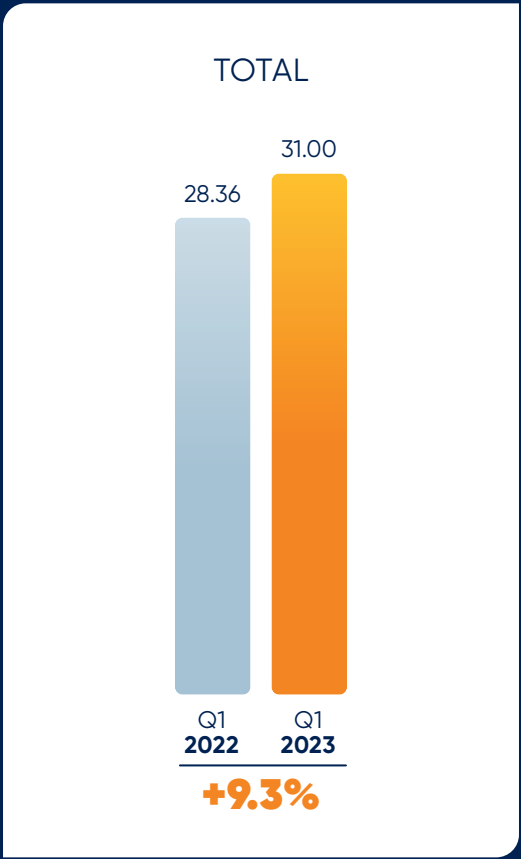
Slow chargers **from 3 kW - 22 kW** | Fast chargers **from 50 kW - 149 kW** | Ultra fast chargers **from 150 kW - 350 kW**

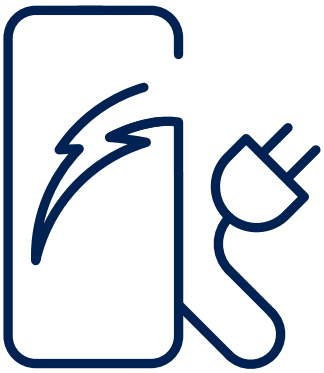
AVERAGE CHARGING TIME Q1-2023

31 min

Fast chargers **32 min** | Ultra fast chargers **30 min**

AVERAGE CHARGING TIME Q1 2022 | 28.36 MIN





AVERAGE ENERGY DELIVERED PER SESSION

21.00 kWh

Slow chargers **14.00 kWh** | Fast chargers **16.40 kWh**
Ultra fast chargers **26.50 kWh**

Type 2

13.70 kWh

CCS

24.30 kWh

CHAdeMO

10.80 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 Q1 2023

91 533 847 * KM

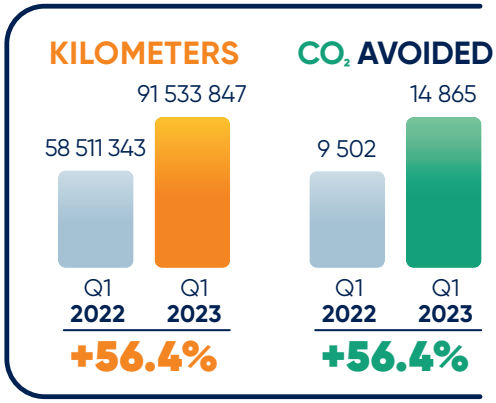
* Average of 0.20 kWh per km

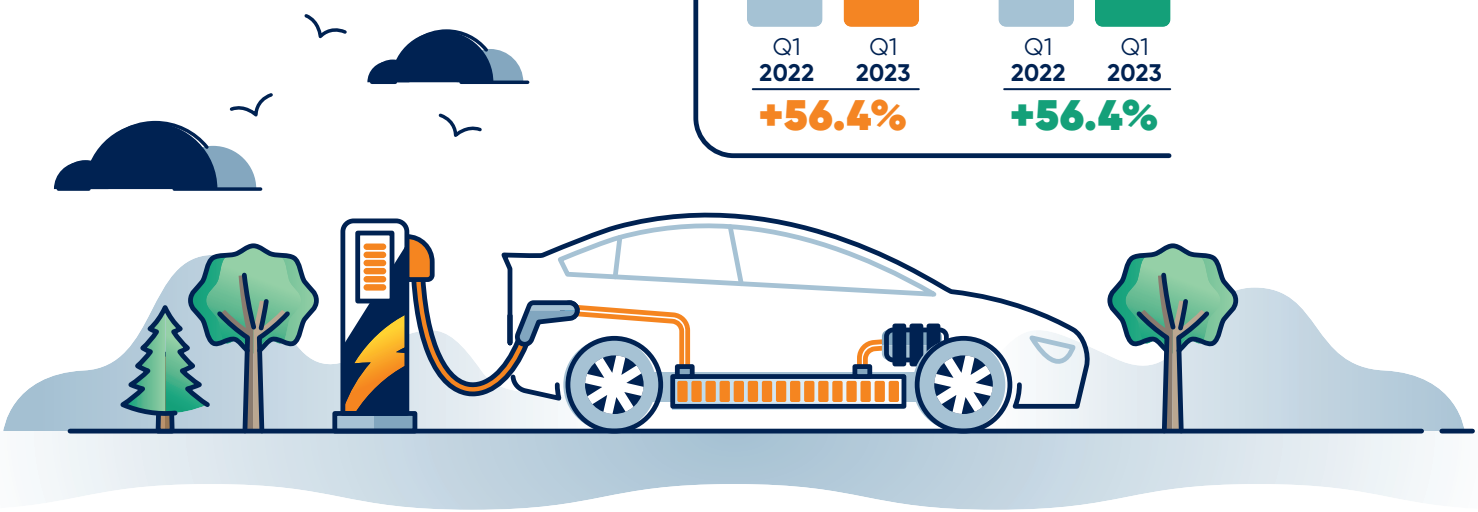
2 284 TIMES AROUND THE EARTH

CO_2 AVOIDED

14 865 * TONS

* CO_2 calculation: 1 km = 162.4 gram CO_2





NUMBER OF EMPLOYEES Q1 2023

61

NUMBER OF EMPLOYEES Q1 2022 | 48

EMPLOYEES BY COUNTRY Q1 2023

RECHARGE
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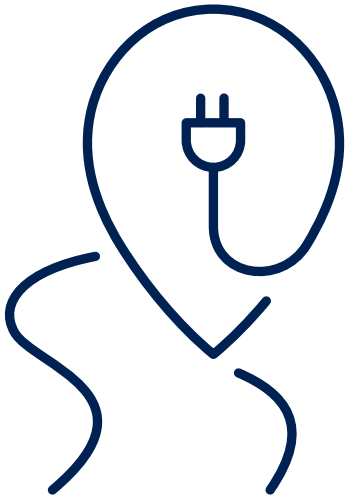
RECHARGE INSIGHTS
NORWAY
Q1 2023



New locations: Esso Borre | Esso Kløfta | Esso Mandalskrysset | Esso Nittedal | Esso Park | Eurospar Skjevik | Kiwi Engelsviken | Shell Figga | Shell Kløfta Øst | Shell Lasses | Shell Sparbu | Shell Svolvær |

Upgraded locations: McDonald's Råbekken | Vulkan Parking Garage |

| Esso Park |

| Kiwi Engelsviken |

| Shell Svolvær |

New charge points Q1 2023

NORWAY 92

TOTAL CHARGE POINTS | 2677

Slow chargers
from 3 kW - 22 kW

-2
Charge points

1269
Total

Fast chargers
from 50 kW - 149 kW

-20
Charge points

609
Total

Ultra fast chargers
from 150 kW - 350 kW

+92
Charge points

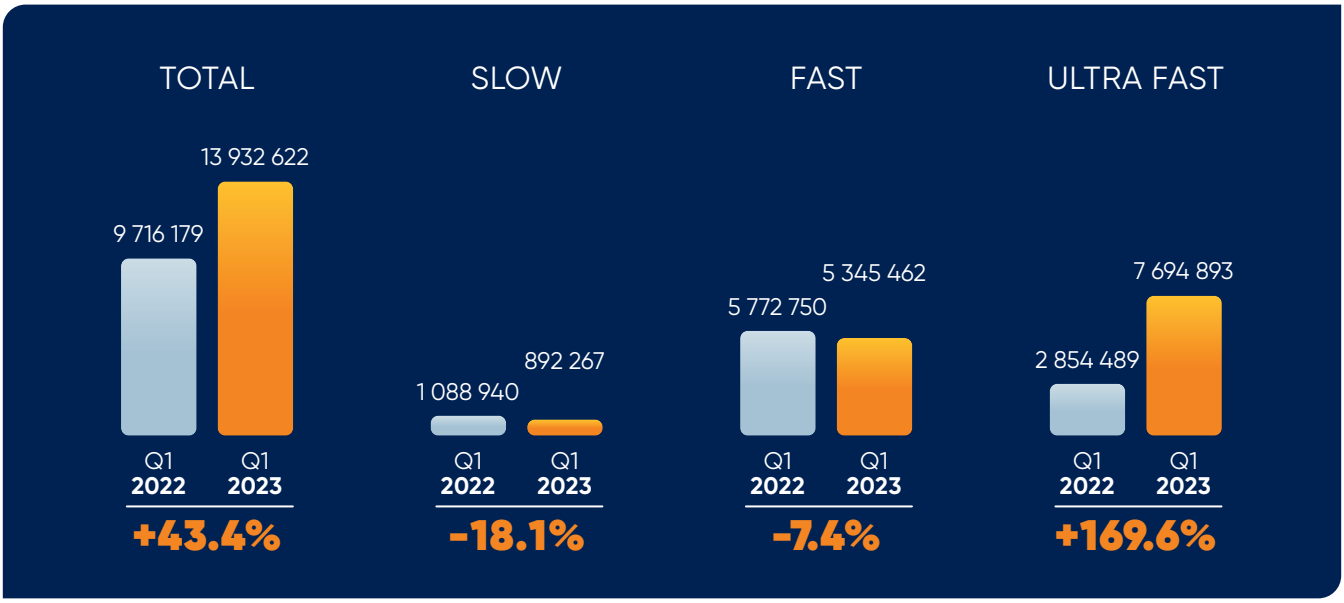
799
Total

ENERGY DELIVERED | kWh

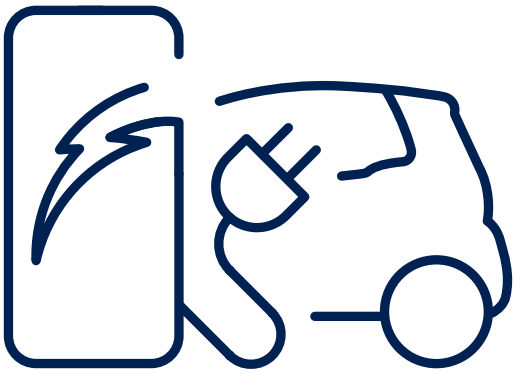
13 932 622 kWh

Slow chargers **892 267 kWh** | Fast chargers **5 345 462 kWh**
Ultra fast chargers **7 694 893 kWh**

Type 2	CCS	CHAdeMO
940 639 kWh	**11 549 558 kWh**	**1 442 425 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

699 405

Slow chargers **55 279 kWh** | Fast chargers **333 255 kWh**
Ultra fast chargers **310 871 kWh**

Type 2

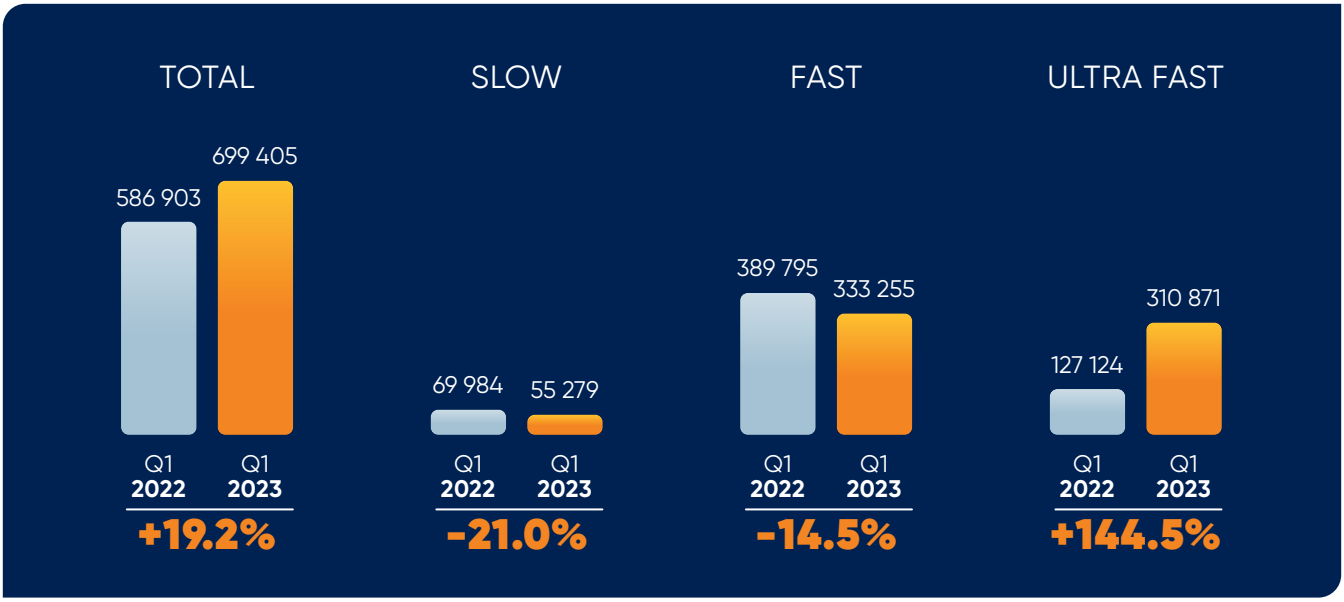
59 265

CCS

504 333

CHAdeMO

135 807



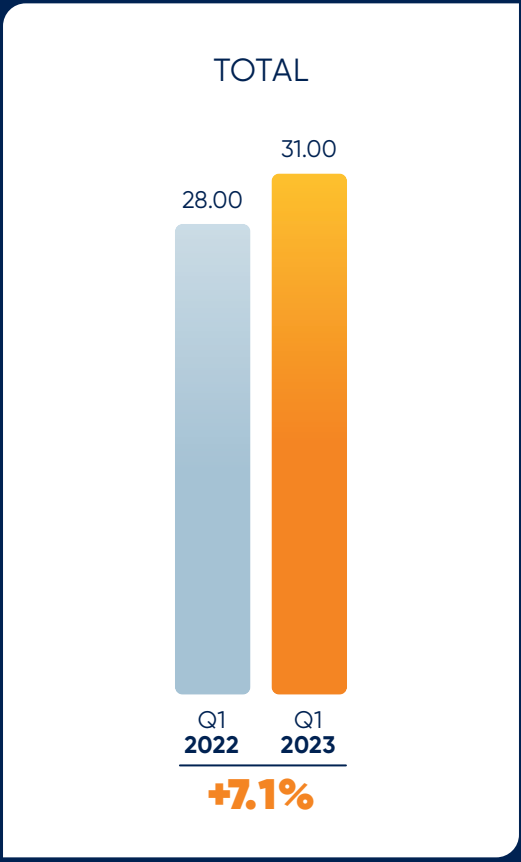
Slow chargers **from 3 kW - 22 kW** | Fast chargers **from 50 kW - 149 kW** | Ultra fast chargers **from 150 kW - 350 kW**

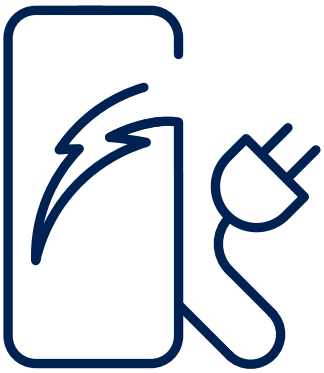
AVERAGE CHARGING TIME Q1 2023

31 min

Fast chargers **31 min** | Ultra fast chargers **30 min**

AVERAGE CHARGING TIME Q1 2022 | 28 MIN





AVERAGE ENERGY DELIVERED PER SESSION

19.00 kWh

Slow chargers **16.10 kWh** | Fast chargers **16.00 kWh**
Ultra fast chargers **24.80 kWh**

Type 2

15.90 kWh

CCS

22.90 kWh

CHAdeMO

10.60 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 Q1 2023

69 663 109 * KM

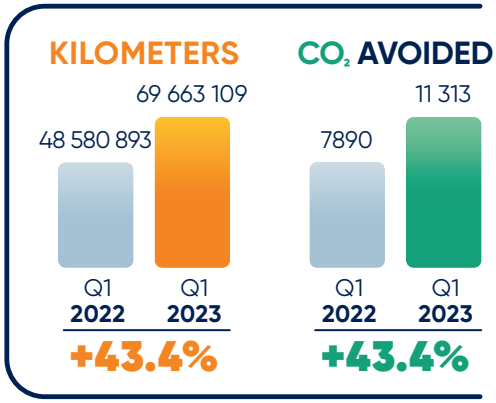
* Average of 0.20 kWh per km

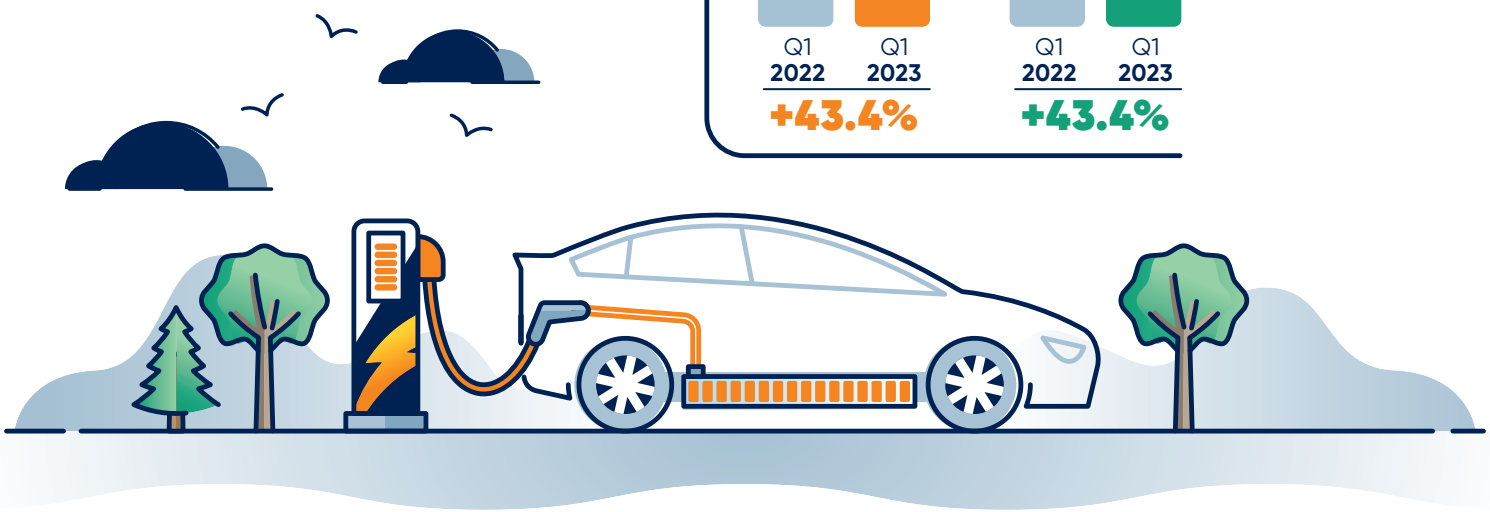
1 738 TIMES AROUND THE EARTH

CO_2 AVOIDED

11 313 * TONS

* CO_2 calculation: 1 km = 162.4 gram CO_2





RECHARGE
DRIVING CHANGE

RECHARGE INSIGHTS
SWEDEN
Q1 2023

New locations: Burger King Gislaved | IKEA Borlänge |

Upgraded locations: Preem Malmö |

| Burger King Gislaved |

| Preem Malmö |

| IKEA Borlänge |

New charge points Q1 2023

SWEDEN 28

TOTAL CHARGE POINTS | 532

Slow chargers
from 3 kW - 22 kW

-33
Charge points

196
Total

Fast chargers
from 50 kW - 149 kW

-5
Charge points

111
Total

Ultra fast chargers
from 150 kW - 350 kW

+28
Charge points

225
Total

ENERGY DELIVERED | kWh

2 427 282 kWh

Slow chargers **56 353 kWh** | Fast chargers **596 293 kWh**
Ultra fast chargers **1 774 635 kWh**

Type 2

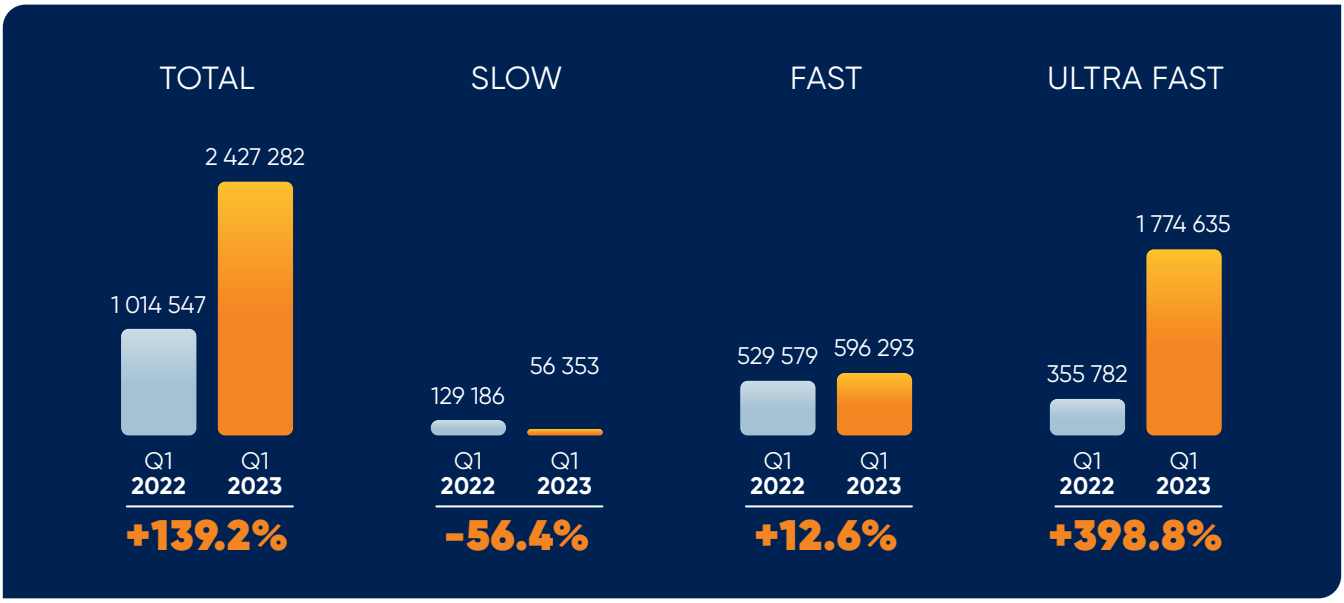
84 327 kWh

CCS

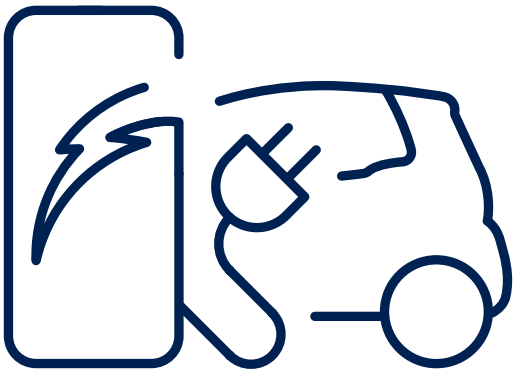
2 278 615 kWh

CHAdeMO

64 339 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

89 960

Slow chargers **5 667** | Fast chargers **28 495**
Ultra fast chargers **55 798**

Type 2

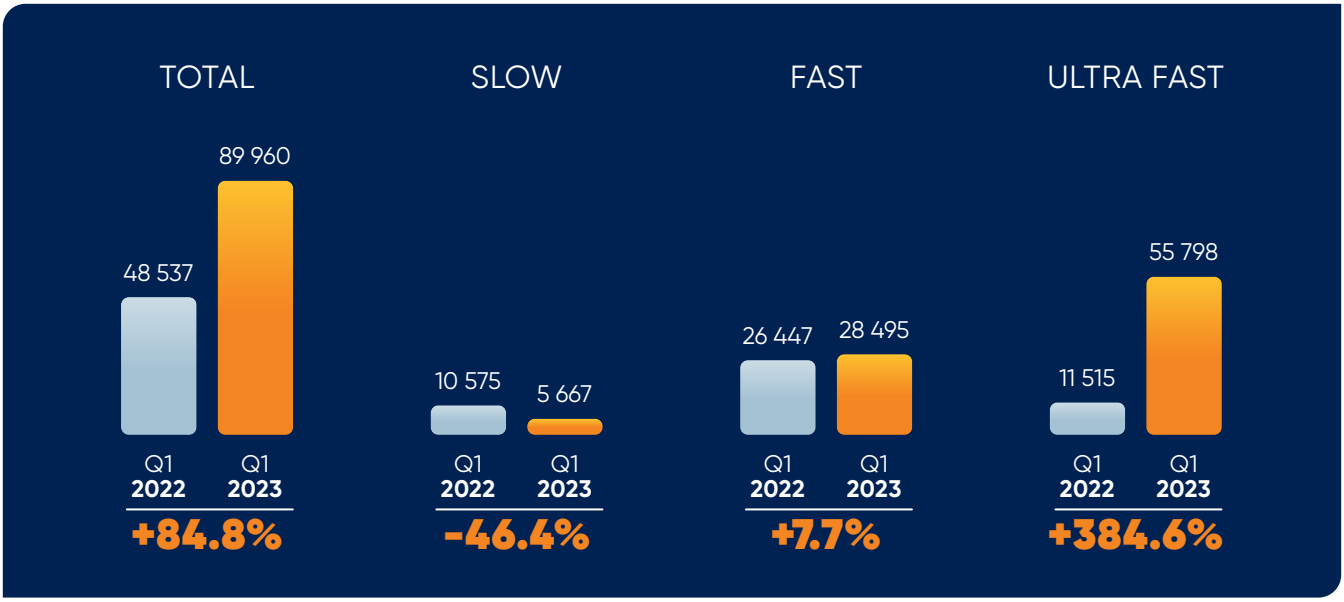
8 249

CCS

77 205

CHAdeMO

4 506



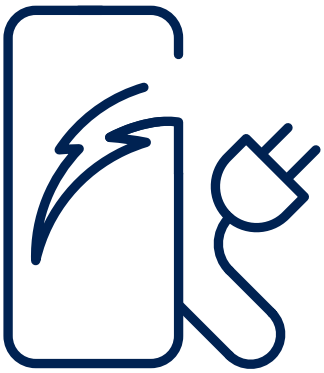
Slow chargers **from 3 kW - 22 kW** | Fast chargers **from 50 kW - 149 kW** | Ultra fast chargers **from 150 kW - 350 kW**

AVERAGE CHARGING TIME Q1 2023

36 min

Fast chargers **38 min** | Ultra fast chargers **33 min**

AVERAGE CHARGING TIME Q1 2022 | 35.54 MIN



AVERAGE ENERGY DELIVERED PER SESSION

20.90 kWh

Slow chargers **9.94 kWh** | Fast chargers **20.93 kWh**
Ultra fast chargers **31.80 kWh**

Type 2

10.22 kWh

CCS

29.51 kWh

CHAdeMO

14.28 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 Q1 2023

12 136 409 *KM

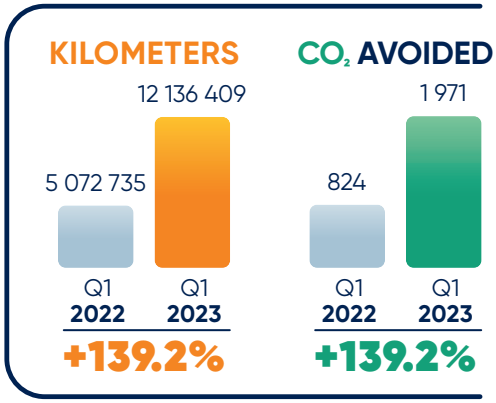
* Average of 0.20 kWh per km

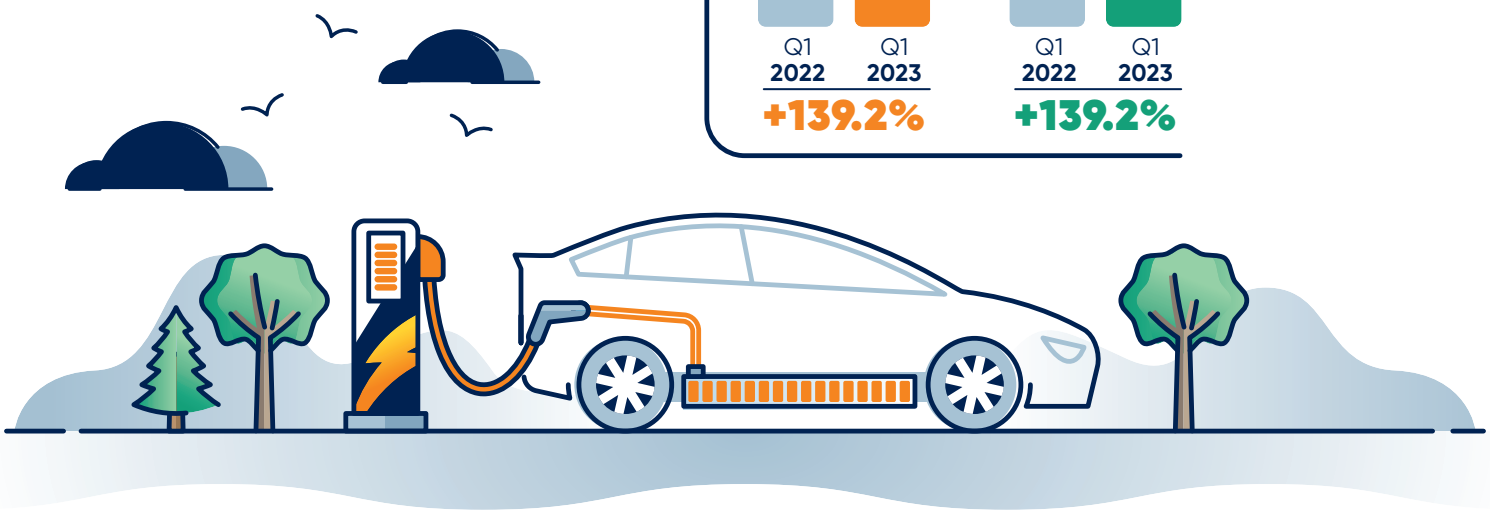
303 TIMES AROUND THE EARTH

CO_2 AVOIDED

1 971 * TONS

* CO_2 calculation: 1 km = 162.4 gram CO_2





RECHARGE
DRIVING CHANGE

RECHARGE INSIGHTS
FINLAND
Q1 2023

New locations: Maisemaravintola Merihelmi, Kuivaniemi | Neste Vähäkyrö, Tervajoki | McDonald's Kaivoksela | McDonald's Kirkkonummi | Kuopion Toriparkki | Matkailukeskus Karhuntassu, Kuusamo | Neste Oulu Hiironen | Verkatehdas, Hämeenlinna |

Upgraded locations: Juustoportti Jalasjärvi |

| Neste Oulu Hiironen |

| McDonald's Kaivoksela |

| Juustoportti Jalasjärvi |

New charge points Q1 2023

FINLAND 26

TOTAL CHARGE POINTS | 862

Slow chargers
from 3 kW - 22 kW

+4
Charge points

472
Total

Fast chargers
from 50 kW - 149 kW

0
Charge points

95
Total

Ultra fast chargers
from 150 kW - 350 kW

+22
Charge points

295
Total

ENERGY DELIVERED | kWh

1 946 866 kWh

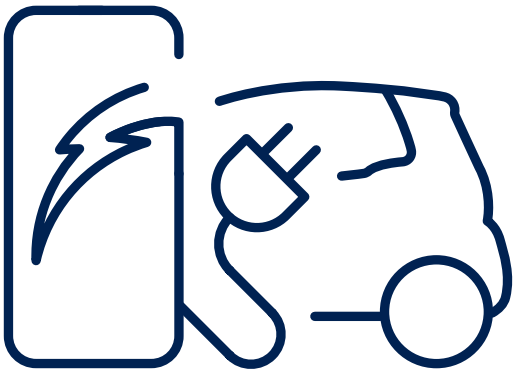
Slow chargers **200 932 kWh** | Fast chargers **230 666 kWh**
Ultra fast chargers **1 515 268 kWh**

Type 2
190 234 kWh

CCS
1 716 278 kWh

CHAdeMO
40 354 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

83 826

Slow chargers **21 304** | Fast chargers **14 251**
Ultra fast chargers **48 271**

Type 2

21 076

CCS

59 372

CHAdeMO

3 378

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 Q1 2023

29 min

Fast chargers **30 min** | Ultra fast chargers **28 min**

AVERAGE CHARGING TIME Q1 2022 | 29.10 MIN

AVERAGE ENERGY DELIVERED PER SESSION

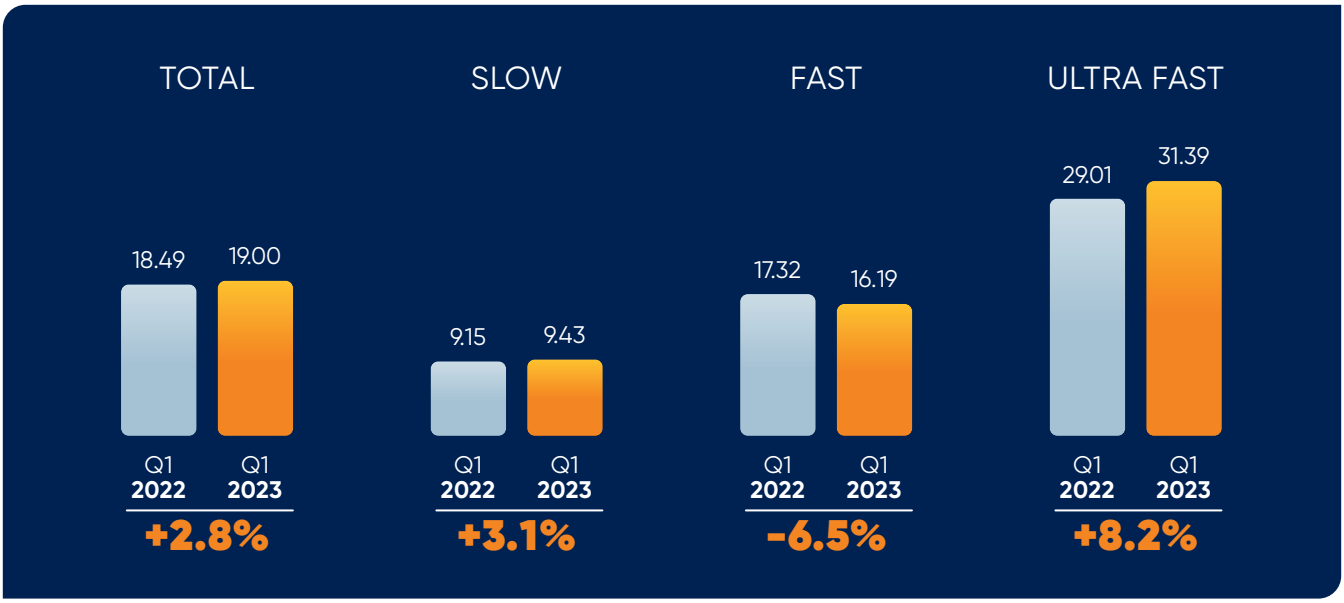
19.00 kWh

Slow chargers **9.43 kWh** | Fast chargers **16.19 kWh**
Ultra fast chargers **31.39 kWh**

Type 2
9.03 kWh

CCS
28.91 kWh

CHAdeMO
11.95 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 Q1 2023

9 734 329 * KM

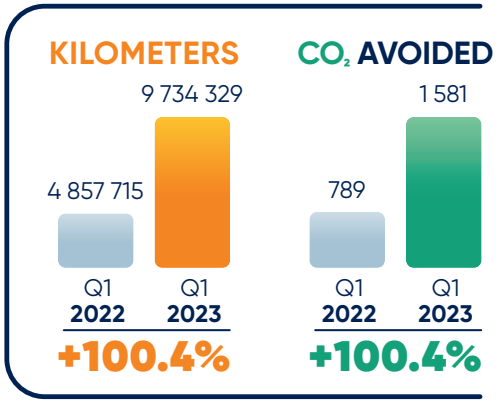
* Average of 0.20 kWh per km

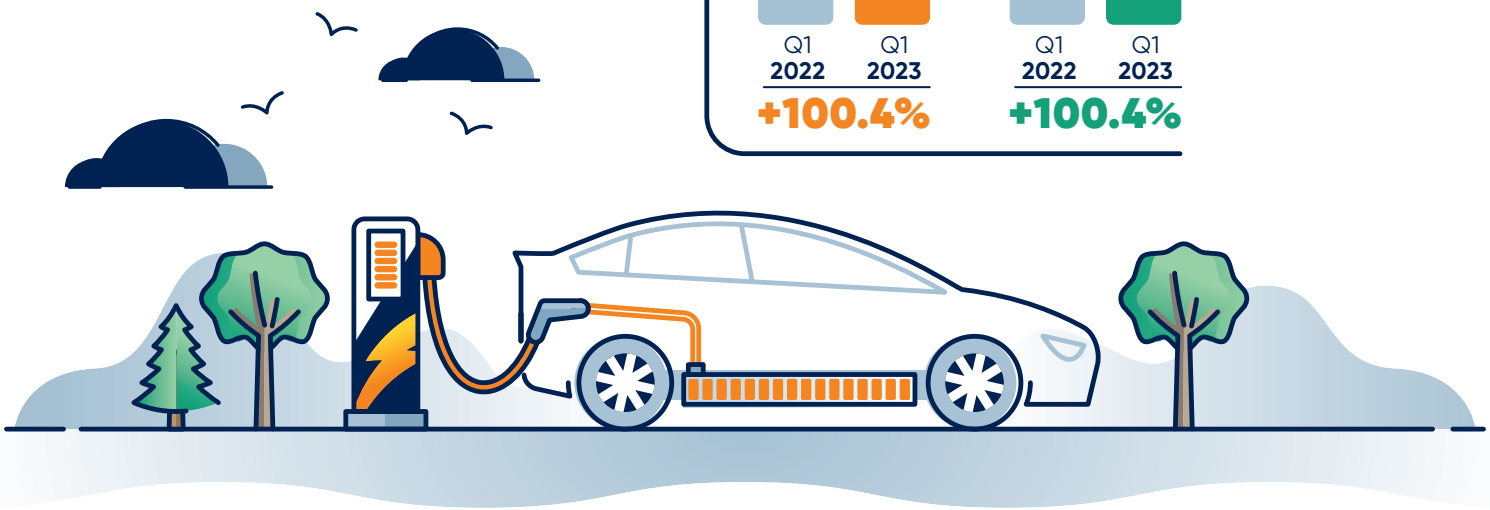
243 TIMES AROUND THE EARTH

CO_2 AVOIDED

1 581 * TONS

* CO_2 calculation: 1 km = 162.4 gram CO_2





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

Read more at
rechargeinfra.com

Contact us at
insights@rechargeinfra.com