

E-Mobility in Austria

Facts & Figures | July 2023



3,321
BEV cars (M1)
new registrations



355
BEV-LCV (N1)
new registrations



7
BEV-HGV (N2 + N3)
new registrations



2
BEV buses (M2 + M3)
new registrations

2030: 100% in new registrations

19% BEV share of cars (M1) in new registrations
in July 2023



135.626
BEV cars (M1)
in operation



22.049
charging points
in operation

What does BEV mean ?

BEV is short for „Battery Electric Vehicle“. Such a vehicle is driven by an electric motor and draws the required energy from an accumulator.

➤ Overview and comments in July 2023

In July, a milestone was reached for the EU-wide expansion of charging infrastructure. OLÉ – Austria’s National Competence Center for E-Mobility tracks and monitors figures and data and links them to assessments of the most important developments.

Alternative Fuels and Infrastructure Regulation

The European Council adopted the AFIR (Alternative Fuels Infrastructure Regulation), which aims to supply comprehensive and harmonised charging infrastructure on the high level road network across the EU. In the regulation, distance and performance specifications for publicly accessible recharging pools are established as well as standards on price transparency, contactless payment and payment

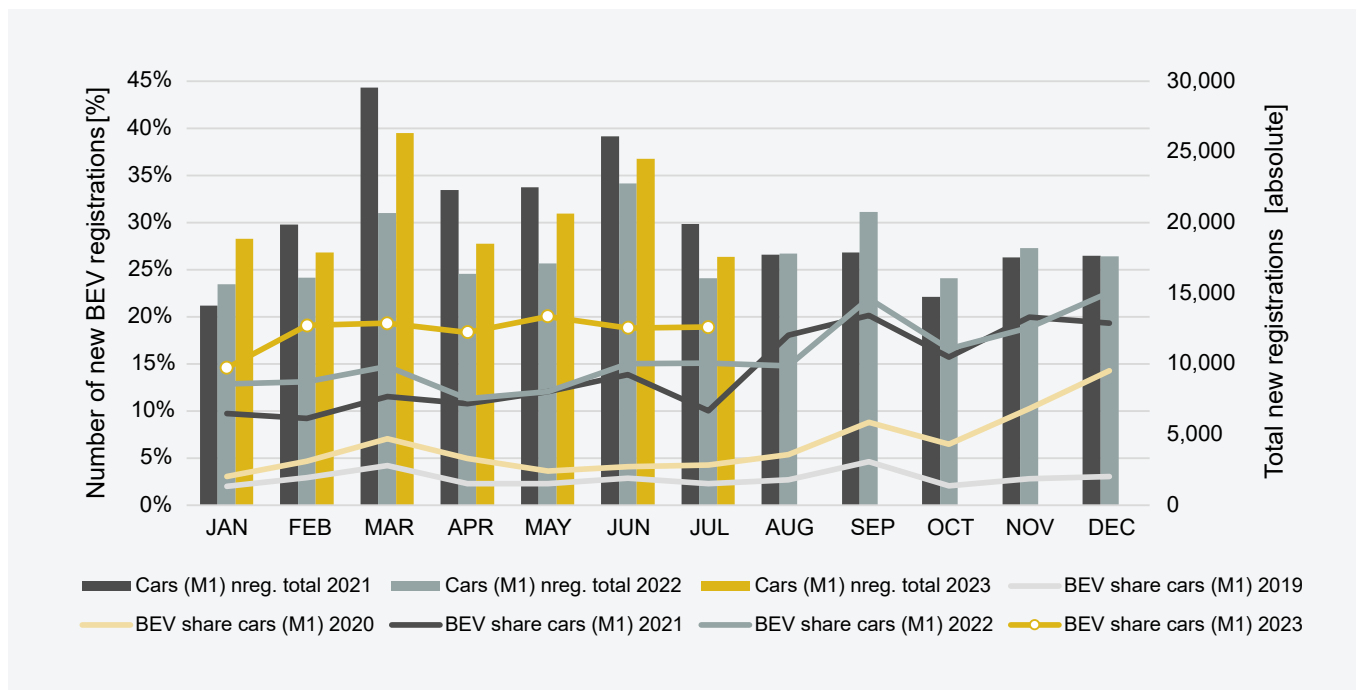
by kW/h (for charging capacities of 50 kW and above).

Regarding e-mobility, the AFIR specifies that for electric cars and light duty electric vehicles, recharging pools with a cumulative total power output of at least 600 kW will be built every 60 km along the TEN-T core network (by 2027) and the TEN-T comprehensive network (by 2035). For heavy duty electric vehicles, recharging pools with a power output of at least 3,600 kW will be installed every 60 km on the TEN-T core network and at least 1,500 kW every 100 km on the TEN-T comprehensive network (by 2030). To achieve these targets, interim milestones are defined for the upcoming years.

The AFIR is due to be published in the Official Journal of the European Union this summer. Six months after its entry into force, the AFIR will be directly applicable in all Member States. The implementation is actively supported by OLÉ – Austria’s National Competence Center for E-Mobility.

Source: Electrive.net, European Commission, European Parliament

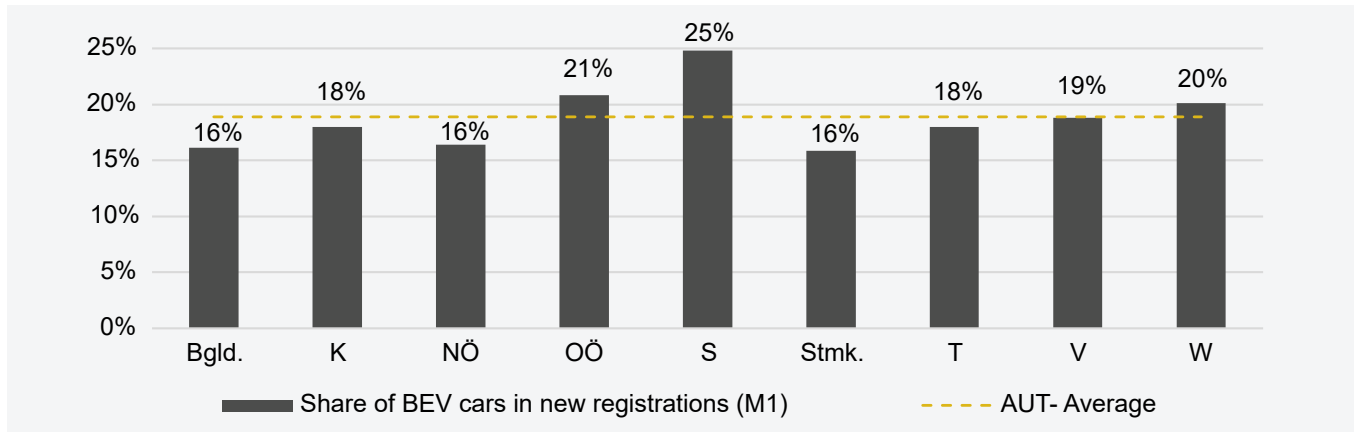
New registrations per month: BEV cars (M1), 2019-2023



Source: Statistics Austria; Data status: End of each month respectively 31/07/2023; Illustration: AustriaTech

New registrations of BEV cars in July 2023

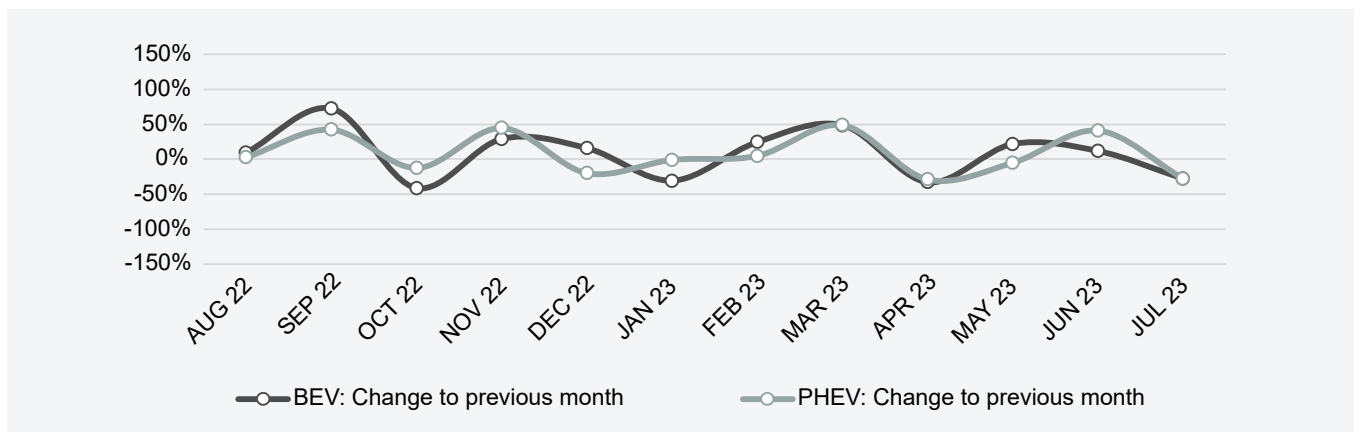
➤ Top 3 in BEV cars (M1): S 25% OÖ 21% W 20%



Source: Statistik Austria; Data status: End of each month, Illustration: AustriaTech

Trend in new e-vehicle registrations, monthly comparison

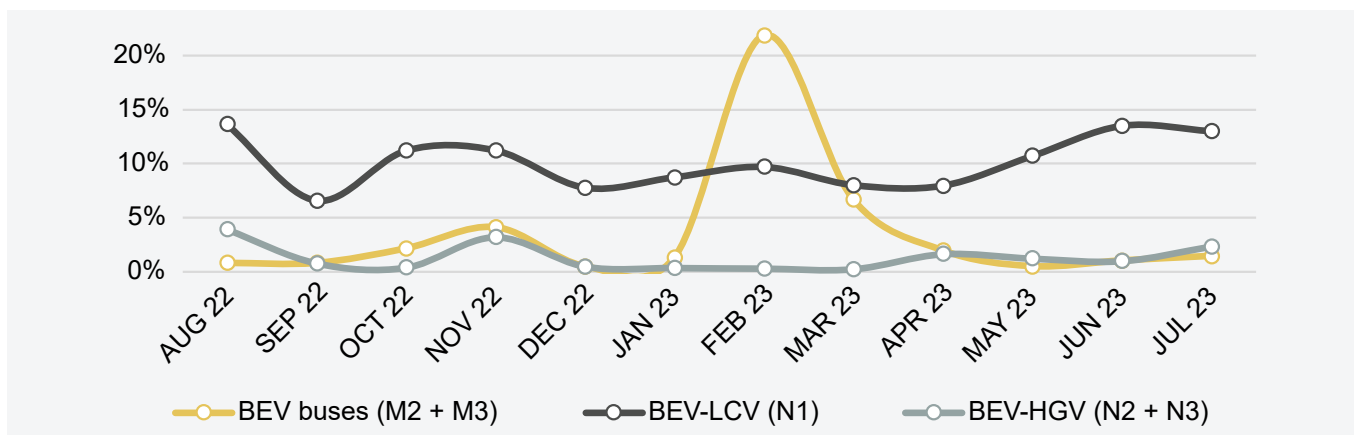
➤ BEV: -28% to previous month / PHEV: -28% to p.m.



Source: Statistik Austria; Data status: End of each month, Illustration: AustriaTech

New registrations by categories of commercial BEV

➤ BEV-LCV (N1): 355 / BEV-HGV (N2 + N3): 7



Source: Statistik Austria; Data status: End of each month, Illustration: AustriaTech

New vehicle registrations per year by vehicle type, fuel type or power source

| Vehicle types, fuel types or energy source | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 July |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
| Passenger vehicle class M1 | 303,318 | 308,555 | 329,604 | 353,320 | 341,068 | 329,363 | 248,740 | 239,803 | 215,050 | 144,256 |
| Petrol incl. hybrids* | 128,339 | 124,725 | 135,061 | 170,230 | 190,655 | 186,943 | 125,949 | 120,929 | 106,805 | 70,060 |
| Diesel incl. hybrids* | 172,471 | 180,340 | 188,989 | 175,501 | 141,119 | 130,423 | 98,757 | 70,782 | 60,735 | 37,377 |
| Gas (CNG, LNG; mono- & bivalent) | 790 | 703 | 486 | 435 | 642 | 580 | 407 | 86 | 63 | 5 |
| Plug-in hybrid electric vehicle (PHEV) | 434 | 1,101 | 1,237 | 1,721 | 1,888 | 2,156 | 7,641 | 14,626 | 13,268 | 10,112 |
| Battery electric vehicle (BEV) | 1,281 | 1,677 | 3,826 | 5,433 | 6,757 | 9,242 | 15,972 | 33,366 | 34,165 | 26,693 |
| Fuel cell electric vehicle (FCEV) | 3 | 9 | 5 | 0 | 7 | 19 | 14 | 14 | 14 | 9 |
| BEV registrations: Change compared to previous year | 95.87% | 30.91% | 128.15% | 42.00% | 24.37% | 36.78% | 72.82% | 108.90% | 2.39% | 57.84% |
| BEV share of new registrations | 0.42% | 0.54% | 1.16% | 1.54% | 1.98% | 2.81% | 6.42% | 13.91% | 15.89% | 18.50% |
| Further BEV of the classes L, M, N | 876 | 930 | 1,949 | 1,910 | 2,724 | 3,141 | 3,558 | 6,155 | 6,485 | 3,826 |
| Motorbikes/Tricycles/Quadracycles (class L) | 672 | 651 | 1,478 | 1,667 | 2,251 | 2,617 | 2,805 | 3,765 | 4,335 | 1,993 |
| Buses (classes M2 + M3) | 1 | 12 | 22 | 6 | 17 | 22 | 14 | 11 | 26 | 16 |
| Light commercial vehicles LCV (class N1; < 3.5 t) | 203 | 267 | 449 | 237 | 446 | 500 | 739 | 2,341 | 2,067 | 1,795 |
| Heavy goods vehicles HGV (classes N2 + N3; > 3.5 t) | 0 | 0 | 0 | 0 | 10 | 2 | 0 | 38 | 57 | 22 |

* Hybride ohne externe Lademöglichkeit

Source: Statistics Austria; Data status: 31/12 of the corresponding year respectively 31/07/2023; Illustration: AustriaTech

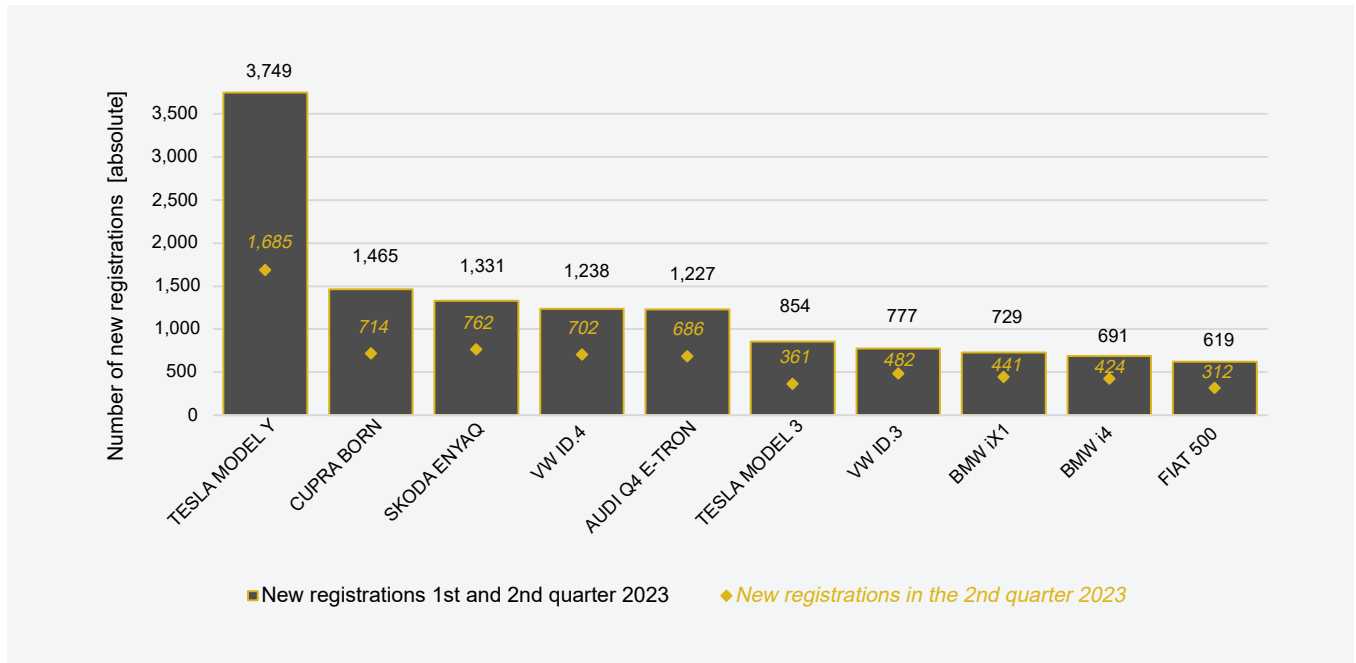
Vehicle population per year by vehicle type, fuel type or power source

| Vehicle types, fuel types or energy source | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 July |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Passenger vehicle class M1 | 4,694,921 | 4,748,048 | 4,821,557 | 4,898,578 | 4,978,852 | 5,039,548 | 5,091,827 | 5,133,836 | 5,150,890 | 5,180,889 |
| Petrol incl. hybrids* | 2,022,609 | 2,032,461 | 2,054,541 | 2,102,712 | 2,167,858 | 2,217,132 | 2,250,050 | 2,278,751 | 2,303,486 | 2,324,555 |
| Diesel incl. hybrids* | 2,663,605 | 2,703,950 | 2,750,270 | 2,771,738 | 2,778,552 | 2,778,732 | 2,775,925 | 2,743,683 | 2,690,025 | 2,663,683 |
| Gas (CNG, LNG; mono- & bivalent) | 4,542 | 5,087 | 5,373 | 5,543 | 5,877 | 6,078 | 6,063 | 5,787 | 5,512 | 5,310 |
| Plug-in hybrid electric vehicle (PHEV) | 776 | 1,512 | 2,287 | 3,948 | 5,710 | 8,042 | 15,237 | 29,021 | 41,580 | 51,650 |
| Battery electric vehicle (BEV) | 3,386 | 5,032 | 9,073 | 14,618 | 20,831 | 29,523 | 44,507 | 76,539 | 110,225 | 135,626 |
| Fuel cell electric vehicle (FCEV) | 3 | 6 | 13 | 19 | 24 | 41 | 45 | 55 | 62 | 65 |
| BEV vehicle stock: Change compared to previous year | 63.57% | 48.61% | 80.31% | 61.12% | 42.50% | 41.73% | 50.75% | 71.97% | 44.01% | 44.57% |
| BEV share of vehicle stock | 0.07% | 0.11% | 0.19% | 0.30% | 0.42% | 0.59% | 0.87% | 1.49% | 2.14% | 2.62% |
| Further BEV of the classes L, M, N | 6,067 | 6,532 | 7,524 | 8,912 | 10,920 | 13,311 | 16,080 | 21,561 | 26,504 | 30,330 |
| Motorbikes/Tricycles/Quadracycles (class L) | 5,116 | 5,324 | 5,907 | 7,057 | 8,614 | 10,533 | 12,565 | 15,716 | 18,621 | 20,614 |
| Buses (classes M2 + M3) | 131 | 138 | 149 | 143 | 154 | 161 | 172 | 174 | 202 | 218 |
| Light commercial vehicles LCV (class N1; < 3.5 t) | 819 | 1,069 | 1,467 | 1,711 | 2,141 | 2,605 | 3,330 | 5,627 | 7,582 | 9,377 |
| Heavy goods vehicles HGV (classes N2 + N3; > 3.5 t) | 1 | 1 | 1 | 1 | 11 | 12 | 13 | 44 | 99 | 121 |

* Hybride ohne externe Lademöglichkeit

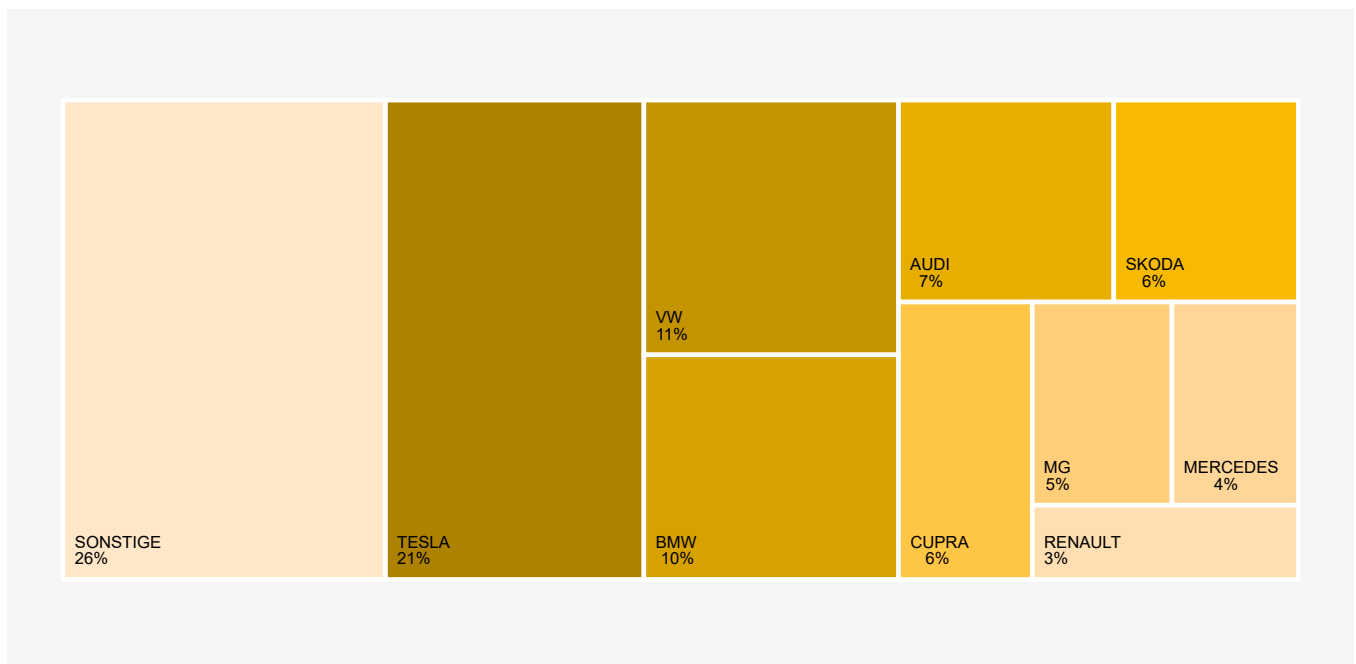
Source: Statistics Austria; Data status: 31/12 of the corresponding year respectively 31/07/2023; the 2023 population figures for PHEV (M1) and for "Further BEV of the classes L, M, N" were calculated on the basis of the old population (31/12/2022) and the cumulative new registrations of the current year; analogous to the determination of the PHEV population, the stocks of electric vehicles of the classes L, M2 & M3 as well as N1, N2 & N3 of the current year were calculated. Illustration: AustriaTech

Best selling BEV passenger cars (M1) by model, 1st to 2nd quarter 2023



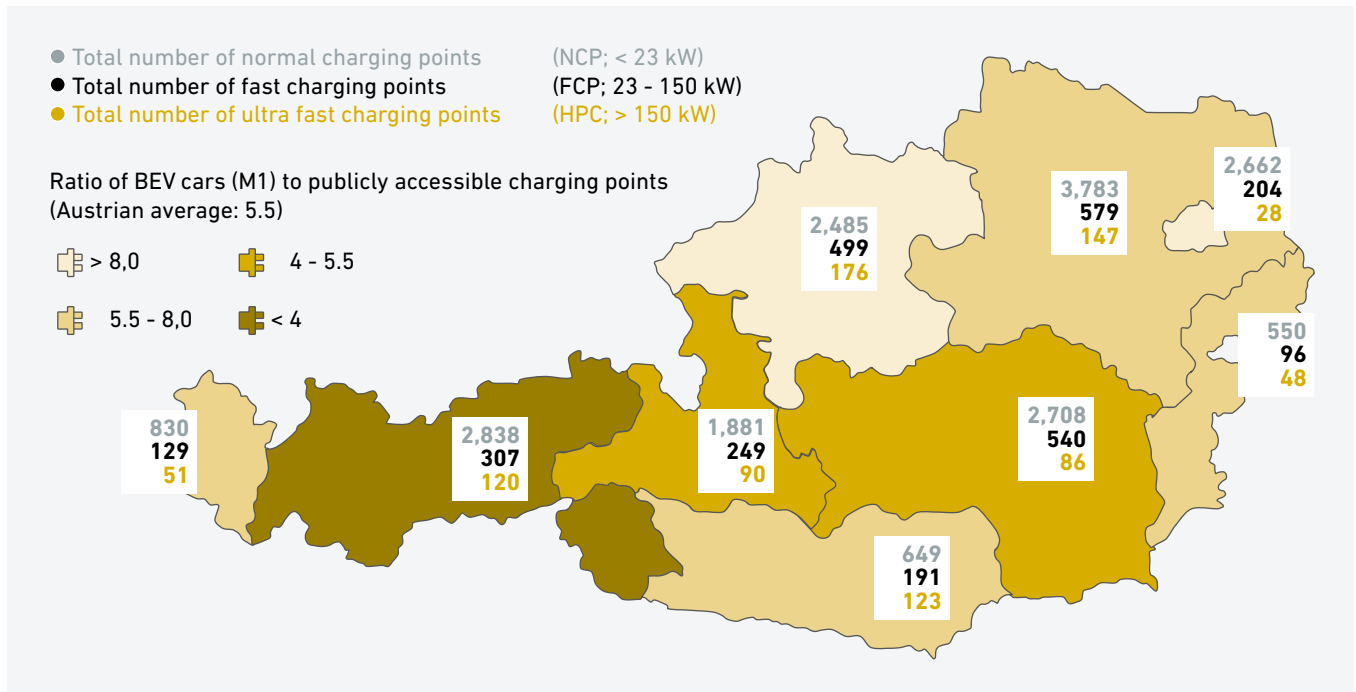
Source: Statistik Austria; Data status: 30/06/2023, Illustration: AustriaTech

Best selling BEV passenger cars (M1) by brand, 1st to 2nd quarter 2023



Source: Statistik Austria; Data status: 30/06/2023, Illustration: AustriaTech

Publicly accessible charging points per federal state, July 2023 (absolute numbers)

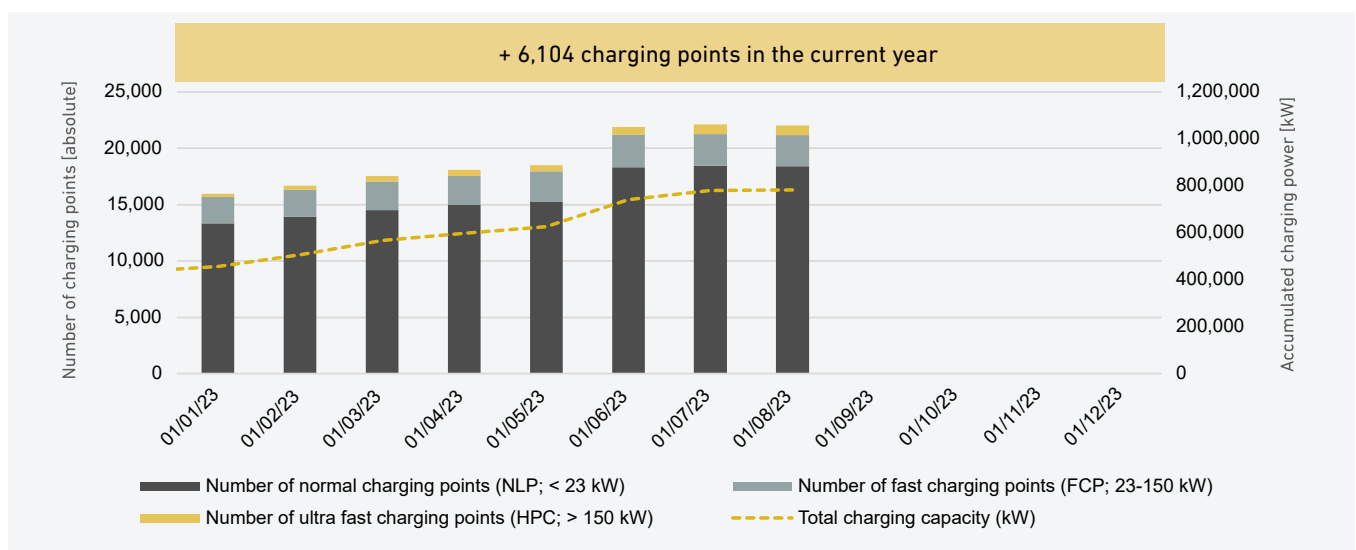


Source: E-Control; Data status: 03/08/2023, Illustration: AustriaTech

As of 3rd August 2023, the Austrian charging network consists of 18,386 normal charging points, 2,794 fast charging points and 869 ultra fast charging points, leading 22,049 publicly accessible charging points in total.

OLÉ - Austria's National Competence Center for E-Mobility supports the expansion of efficient charging infrastructure in public spaces by improving framework conditions and funding programs. OLÉ is committed to finding the right charging infrastructure for the respective charging scenario. To support the ramp-up, all forms of charging infrastructure (e.g. smart home and workplace charging points and high power charging points on main routes) are needed.

Publicly accessible charging points and total charging capacity per month, 2023



Source: E-Control; Data status: end of the respective month, Illustration: AustriaTech

Imprint



About

The monthly publication “E-Mobility in Austria Facts & Figures” is created by AustriaTech in its role as National Competence Center For E-Mobility (“OLÉ - Österreichs Leitstelle für Elektromobilität”) and offers a compact overview of recent developments in E-mobility.

You can find the current issue of the publication series “E-Mobility in Austria Facts & Figures” at www.austriatech.at/downloads as well as at www.austriatech.at/zahlen-daten-fakten-archiv

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Glossary

| | |
|--------------------|---------------------------------|
| BEV: | Battery electric vehicle |
| FCEV: | Fuel cell electric vehicle |
| PHEV: | Plug-in-hybrid electric vehicle |
| BEV + PHEV + FCEV: | E-vehicles |