VDA German Association of the Automotive Industry

Facts and Figures

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International Passenger Car Markets January 2023

New Passenger Car Registrations/ Sales

	Jan. 2023	+/- in %	Jan.-Jan. 2023	+/- in %
Europe (EU27, EFTA & UK)* 1)	910,600	10.7	910,600	10.7
European Union (EU27)* 1)	759,600	11.3	759,600	11.3
W. Europe (EU14, EFTA & UK) 1)	814,700	10.3	814,700	10.3
New EU Countries (EU13)* 1)	95,900	14.2	95,900	14.2
USA** 2)	1,033,000	4.2	1,033,000	4.2
China 3)	1,458,000	-32.5	1,458,000	-32.5
Japan 4)	319,900	17.4	319,900	17.4
India 5)	298,100	17.2	298,100	17.2
Brazil** 6)	130,700	11.9	130,700	11.9

Source: 1) ACEA 2) Wards Intelligence 3) CAAM 4) JAMA 5) SIAM 6) ANFAVEA

* without Malta

** Light Vehicles

International automotive markets off to a positive start in 2023: Double-digit growth in Europe, Japan - U.S. gains - China down sharply due to New Year's holiday

The international automotive markets presented clearly positive growth rates at the beginning of the year. In Europe (EU27, EFTA & UK) double-digit growth was achieved in the first month of the year. The Japanese market, which was depressed last year, also recovered. In the United States, more vehicles were also sold than a year earlier. In China, however, sales slumped because of the Chinese New Year celebrations.

A good 910,600 new passenger cars were registered in the European passenger car market in the first month of 2023. The weak prior-year figure thus enabled growth of 10.7 percent. Nevertheless, January was still just over 200,000 units (-20 percent) below the sales volume of the pre-pandemic month of January 2020. The five largest individual European markets developed positively for the most part: In Spain, 51 percent more vehicles were newly registered compared to the same month last year. On the one hand, this high percentage increase resulted from the weak start to 2021, which was dominated by supply bottlenecks. On the other hand, a larger number of vehicles that had already been purchased in December but could no longer be registered at the end of the year led to this jump. Double digit growth was also achieved in Italy (+19 percent) and the United Kingdom (+15 percent). In France, there was still a 9 percent increase in passenger car registrations. Only the German market declined by just under -3 percent compared with the start of the previous year.

In the U.S., light vehicle sales (cars and light trucks) increased by 4 percent in January 2023. A total of 1.0 million vehicles were sold. Compared to the pre-crisis month of January 2020, the market was a good 100,000 vehicles smaller. Light truck sales (+4 percent) performed minimally better than passenger car sales (+3 percent).

In the past month, the Chinese market suffered a significant year-on-year decline. However, this was mainly due to the Chinese New Year celebrations. During this event significantly fewer vehicles are sold than traditionally. As last year's holidays took place in February, a significant catch-up effect can be expected in the coming month. In January, 1.5 million new passenger cars were registered in China, 33 percent fewer than in the same month last year.

In Japan, sales of brand-new passenger cars increased significantly last month. With just under 319,900 passenger cars sold, the market volume was 17 percent higher than in the previous year.

Elektro International December 2022

New Electric Car Registrations in the Most Important Markets Jan.- Dec. 2022

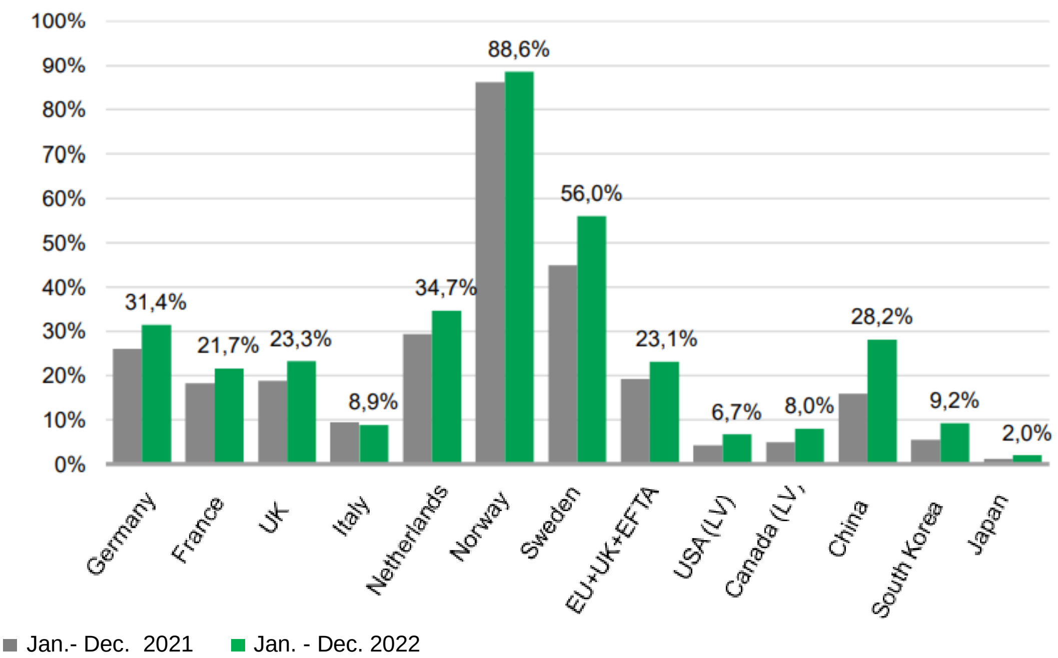
	Electric registrations / sales (YTD)	Change YTD vs. Previous year (2022 vs. 2021)	Change Dec. 2022 vs. Dec 2021	Cumulative new registrations / sales since January 2010	Electric proportion of 2022 YTD	Electric proportion of 2021 YTD	Electric market share of German Brand 2022 YTD	Electric market share of German Brand 2021 YTD	German Brand market share in the overall car market 2022 YTD
Germany	833.487	22%	114%	2.218.263	31,4%	26,0%	56%	65%	67%
France	331.065	9%	4%	1.047.210	21,7%	18,3%	26%	29%	26%
UK	375.957	22%	46%	1.132.654	23,3%	18,8%	39%	43%	47%
Italy	117.330	-14%	-13%	354.378	8,9%	9,3%	38%	40%	34%
Netherlands	108.221	14%	-31%	505.226	34,7%	29,4%	43%	45%	41%
Norway	154.520	2%	94%	740.050	88,6%	86,2%	42%	38%	43%
Sweden	161.270	19%	59%	508.883	56,0%	44,9%	36%	38%	40%
EU+UK+EFTA	2.607.388	15%	48%	8.075.473	23,1%	19,2%	45%	49%	46%
USA (LV)	923.550	45%	50%	3.268.905	6,7%	4,3%	11%	11%	9%
Canada (LV)	122.065	49%	57%	407.285	8,0%	4,9%	9%	8%	10%
China	6.548.482	94%	50%	14.514.558	28,2%	16,0%	5%	6%	19%
South Korea	133.537	64%	12%	353.418	9,2%	5,5%	20%	27%	15%
Japan	70.203	51%	30%	442.610	2,0%	1,3%	20%	24%	5%

Source: KBA, Ward's, Fourin, S&P

In December, most markets in Europe (+48 percent) showed growth. The strongest growth was recorded in Germany (+114 percent), Norway (+94 percent) and Sweden (+59 percent). Italy (-13 percent) and the Netherlands (-31 percent), which developed the weakest. The non-European markets were all clearly in the plus. Canada recorded the largest increase with 57 percent.

With 6.55 million newly registered e-cars (+94 percent) in 2022, China remains by far the most important e-market worldwide. For comparison: Europe (EU+EFTA+UK) came at 2.61 million units (+15 percent) which was less than half. The USA ranked behind with 0.92 million sales (+44 percent).

Electric Share in the Overall Passenger Car Market (Jan.- Dec. 2021 vs Jan.- Dec. 2022)



When it comes to the electric share in the overall market, the e-share consolidated over the course of the year in Norway at 89 percent. The second place is Sweden with 56 percent, which followed by the Netherlands (35 percent), Germany (31 percent) and China (28 percent), UK (23 percent) and France (22 percent).

BEV and PHEV new registrations of cars in the most important markets Jan.- Dec. 2022

	BEV* New registrations / sales (YTD)	Change YTD vs. Previous year (2022 vs. 2021)	Change Dec 2022 vs. Dec 2021	Share of BEV to electric YTD	PHEV* New registrations / sales (YTD)	Change YTD vs. Previous year (2022 vs. 2021)	Change Dec 2022 vs. Dec 2021
Germany	470.559	32%	115%	56%	362.093	11%	113%
France	202.918	25%	8%	61%	127.954	-9%	-1%
UK	267.195	40%	53%	71%	108.754	-8%	23%
Italy	49.247	-27%	-27%	42%	68.072	-1%	2%
Netherlands	73.227	15%	-34%	68%	34.905	12%	7%
Norway	138.260	22%	137%	89%	16.233	-57%	-31%
Sweden	95.041	65%	81%	59%	66.227	-15%	24%
EU+UK+EFTA	1.575.397	29%	53%	60%	1.030.661	-2%	40%
USA (LV)	725.329	58%	57%	79%	195.514	11%	27%
Canada (LV)	99.231	67%	71%	81%	22.797	1%	13%
China	5.033.480	82%	35%	77%	1.514.798	152%	130%
South Korea	110.445	107%	12%	83%	12.928	-34%	0%
Japan	31.592	49%	71%	45%	37.763	66%	4%

* BEV = Battery Electric Vehicle, PHEV = Plug-in Hybrid EV

Source: KBA, Ward's, Fourin, S&P

In December, all major BEV markets except Italy (-27 percent) and the Netherlands (-32 percent) recorded high double-digit percentage increases. The highest growth was in Norway (+137 percent) where since January 1st, 2023, sales tax would be partially levied on new electric cars. In Germany, the high increase (+115 percent) resulted from the reduced environmental bonus for BEVs. In Sweden (+81 percent) where after November 8th, 2022, ordering e-cars would no longer be eligible for climate bonus. Canada and Japan followed with the increase of 71 percent each.

In 2022, the Chinese BEV market clearly dominated with 5.03 million (+82 percent). Europe achieved 1.58 million new BEV registrations (+29 percent). The USA, in third place with 0.73 million electric light vehicles (+58 percent) was catching up a bit. In addition to China, very high growth rates were recorded in South Korea (+107 percent), where production was expanded in 2022, as well as Canada (+67 percent) and Sweden (+65 percent) were recorded very high growth rates. There were declining figures in Italy (-27 percent), which was to be seen against the background of the halving of incentives for zero-emission vehicles at the end of May.

In December, there was a temporary boom of PHEVs market in Europe (+40 percent). China (+130 percent), Germany (+113 percent) recorded the greatest growth, where purchases were brought forward due to the end of subsidies. In the USA (+27 percent), Sweden (+24 percent), UK (+23 percent) and Canada (+13 percent), where these markets show double-digit growth. In Norway (-31 percent), new PHEV registrations decreased significantly due to the abolition of the VAT exemption. Outside of Europe, PHEVs were in positive territory in these important markets - only in South Korea there was stagnation.

New registrations of plug-in hybrids in China rose by 152 percent to 1.514 million in 2022 and China remained the world's largest PHEV market, ahead of Europe (-2 percent) with 1.031 million registrations. The most important European market is still Germany, which was at the previous year's level with 362 thousand units (+11 percent). The USA followed with 196 thousand (+11 percent) ahead of Japan with 38 thousand (+66 percent), where the only larger market apart from Italy with a PHEV share of more than half of all new EV registrations.

Elektro Germany January 2023

Overview of New Electric Car Registrations Germany

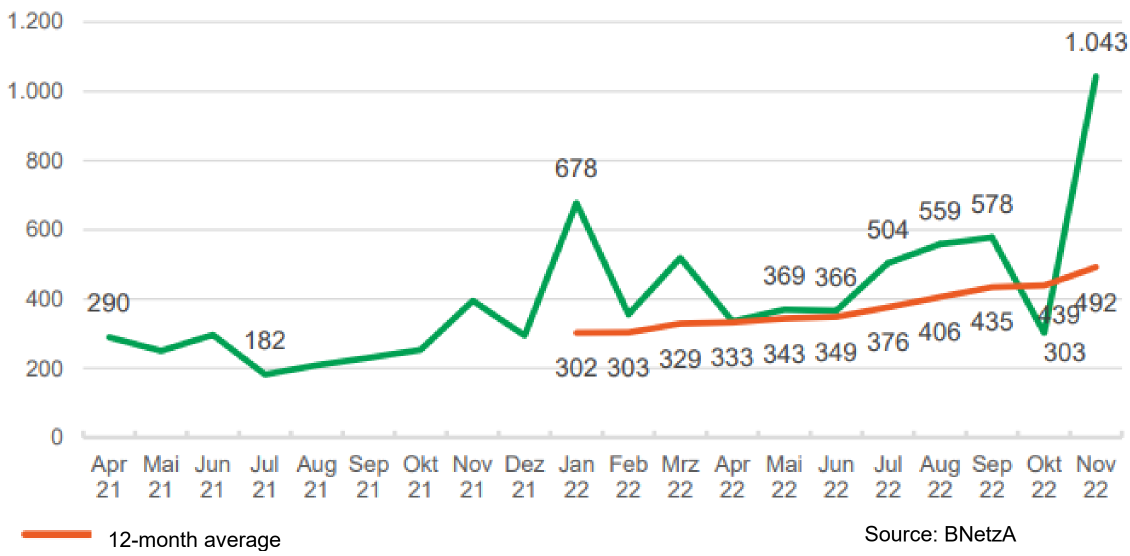
	Jan. 2023	Jan. 2022	23/22 in %	Jan.-Jan. 2023	Jan.-Jan. 2022	23/22 in %	Anteil Jan. 2023	Anteil Jan. 2022	Anteil Jan.-Jan. 2023	Anteil Jan.-Jan. 2022
Elektro gesamt	**27.008**	**39.823**	**-32%**	**27.008**	**39.823**	**-32%**	**15,1%**	**21,6%**	**15,1%**	**21,6%**
darunter										
BEV	18.136	20.892	-13%	18.136	20.892	-13%	10,1%	11,3%	10,1%	11,3%
Plug-In Hybrid (PHEV)	8.853	18.900	-53%	8.853	18.900	-53%	4,9%	10,3%	4,9%	10,3%
Brennstoffzelle	19	31	-39%	19	31	-39%	0,0%	0,0%	0,0%	0,0%
Zum Vergleich:										
Hybrid (ohne Plug-In)	*41.919*	*35.226*	*19%*	*41.919*	*35.226*	*19%*	*23,4%*	*19,1%*	*23,4%*	*19,1%*
dar. Mild-Hybrid*	*34.819*	*30.312*	*15%*	*34.819*	*30.312*	*15%*	*19,4%*	*16,5%*	*19,4%*	*16,5%*
Erdgas	*97*	*186*	*-48%*	*97*	*186*	*-48%*	*0,1%*	*0,1%*	*0,1%*	*0,1%*
LPG	*1.068*	*1.586*	*-33%*	*1.068*	*1.586*	*-33%*	*0,6%*	*0,9%*	*0,6%*	*0,9%*
Alternative Antriebe ges.	70.092	76.821	-9%	70.092	76.821	-9%	39,1%	41,7%	39,1%	41,7%
Neuwagen gesamt	179.247	184.112	-3%	179.247	184.112	-3%	100,0%	100,0%	100,0%	100,0%

* Akt. Monat sowie bis 2021 geschätzt.

Quelle: KBA, VDA

The change in subsidies for electric vehicles at the beginning of the year had a direct negative effect on new registrations in January. At 27,000 units, 32% fewer electric cars were newly registered in January than in the same month last year. Of these, 18,140 units were purely BEV, 8,850 units were PHEV. E-cars thus achieved a share of just 15.1% of the total market. In December last year, the proportion of electric cars was still 55.4%. While BEV fell by 13% in January compared to the same month last year, new registrations of PHEV fell by 53% compared to the same month last year.

New publicly accessible charging points per week (including late-reported registrations)



Till December 1st, 2022, 76,561 charging points (of which 12,755 were rapid charging points with an output of 22 kW and more) were registered with the Federal Network Agency (BNetzA) in Germany. For detailed info, please refer to Link.

With an estimated total of 1.865 million e-cars till December 1st, there were 44 charging points for 1,000 e-cars (or 23 e-cars per charging point). In November, the BNetzA reported an additional 4,470 which corresponded to 1,043 charging points per week, including late-reported registrations.

The speed of expansion increased the moving twelve-month average to 492 charging points per week. To reach 1 million in 2030 would require building around 2,000 charging points per week. To achieve this, the expansion rate would have to be more than quadrupled.

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