

## Automotive Trends China – Selected Materials (Status June 2023)

**FTI-Andersch Automotive Practice** 

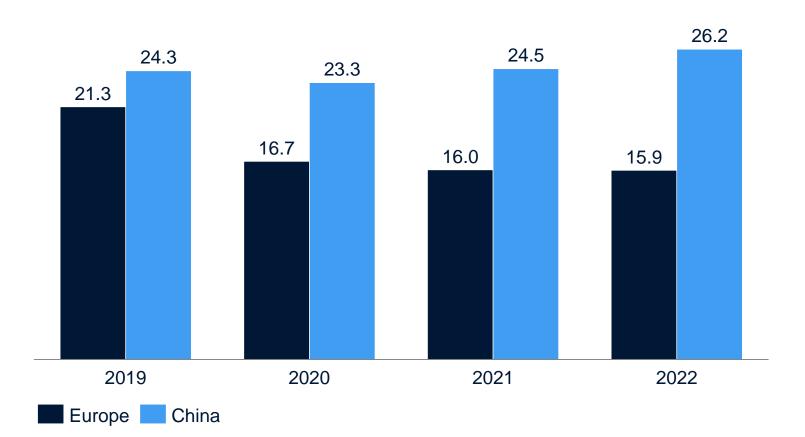
30 June 2023

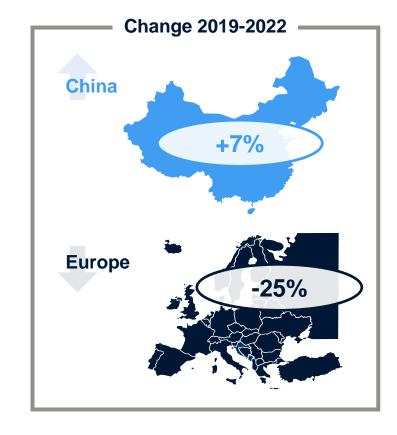
# 01 Market recovery China



### The automotive market in China has recovered much faster from covid-19 than Europe

#### Vehicle production volumes Europe and China [in Mio. units]

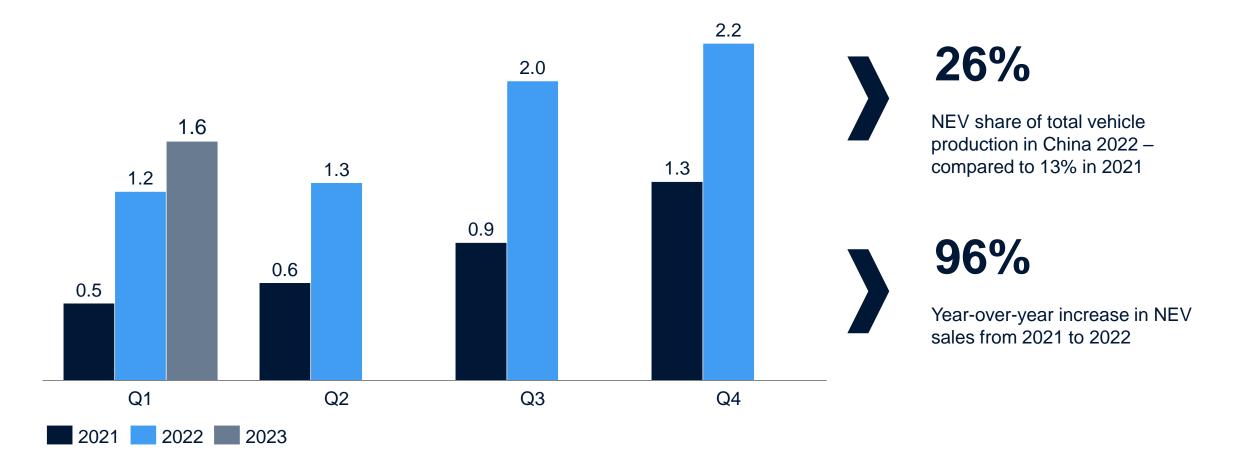




### Electric mobility is the growth engine for the China automotive industry



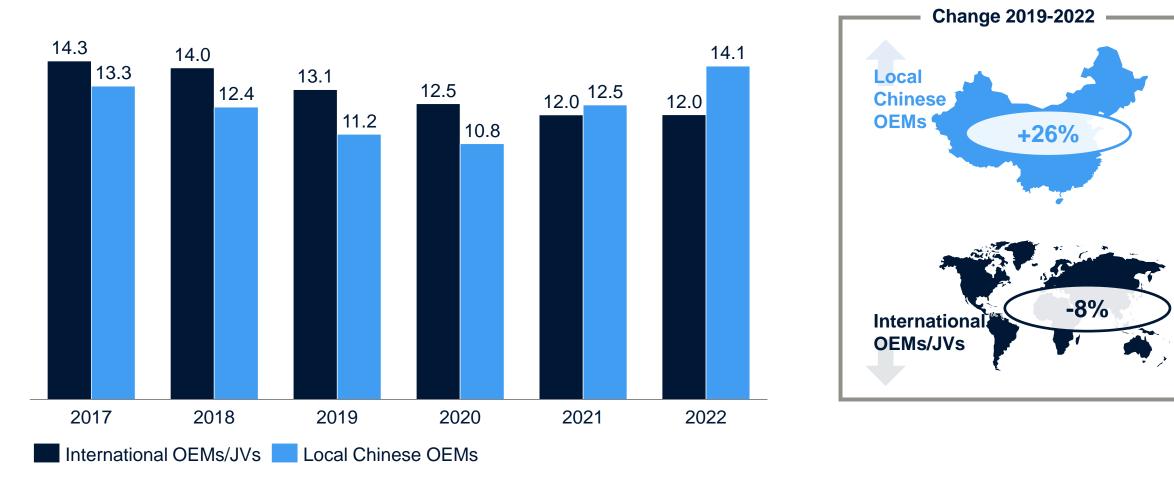
#### Quarterly sales of NEVs in China in the passenger car segment [in Mio. units]



#### Local Chinese players outperform international players in China



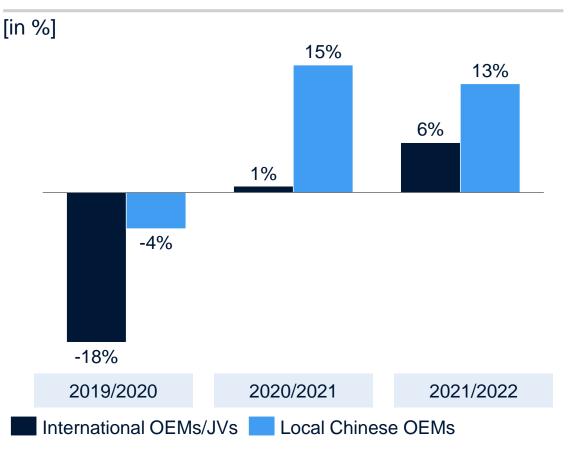
#### Production volumes in China by sales group [in Mio. units]



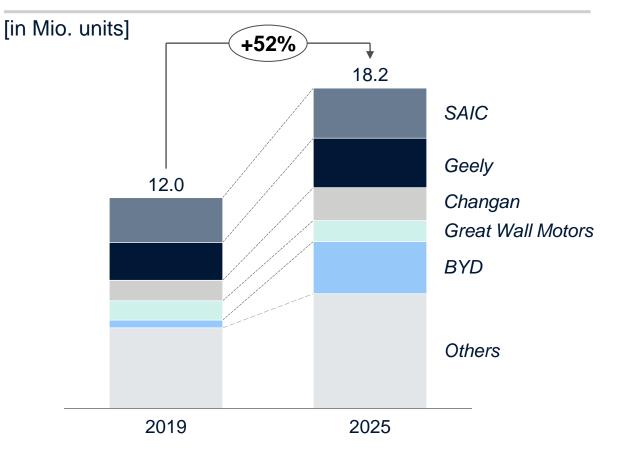
### Local Chinese OEMs outperform the global market as well



## Annual change of global production volume by sales group



## Production volume 2019/2025 Chinese OEMs by sales group

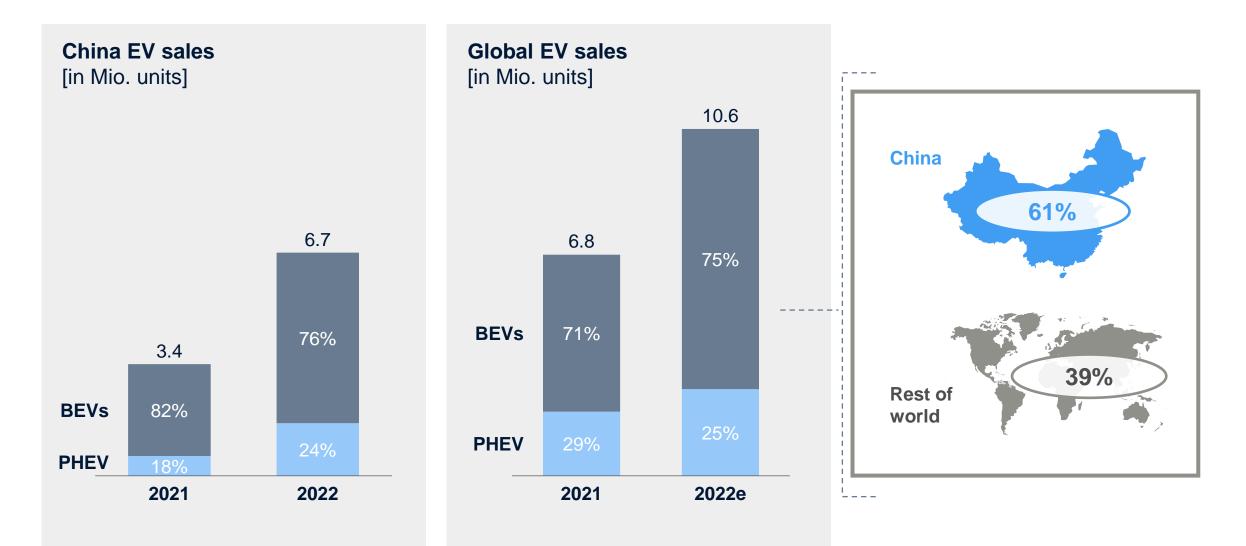


# 02 China's dominant role in electric mobility



### China has already a very strong role in electric mobility





### China's dominant role in electric mobility expected to further increase

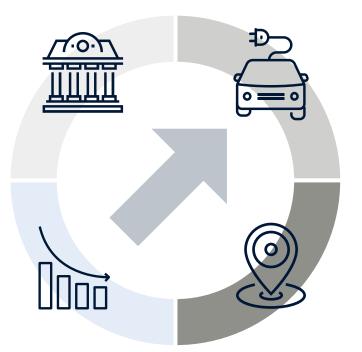


## Strong support by the Chinese government

- Electric mobility considered "strategic"
- Government investments and subsidies
- Legislation to foster electric mobility

## Cost and supply chain advantages

- Labor cost
- Economies of scale
- Short supply chain (raw materials, suppliers)



## OEMs and suppliers with full focus on electric mobility

- OEMs with strong focus on EV
- Strong suppliers esp. for batteries
- Raw materials and refining suppliers

## Big home market with open-minded customers

- By far biggest car market in the world
- Quick accumulation of experience
- Customer openness to new ideas

### Continued strong support by the Chinese government



40%

State target on BEV share of new vehicle registrations until 2030

## 13 years

of government subsidies for BEVs ended in Dec 2022 – purchase tax exemption still remains until end of 2023

## 31%

NEV growth in 2023 year-on-year estimated by the China Passenger Car Association (CPCA)

of global installed battery capacity expected to be owned by China until 2030

31%

#### 20%

goal of BEV deployment by 2025 in Beijing



tax reduction on ICE vehicles in the second half of 2022 to strengthen the Chinese economy

## **Dual Credit Policy**

requires OEMs to manufacture fuel-efficient vehicles, and to meet sales targets of NEVs

65%

of public EV charging stations worldwide are located in China

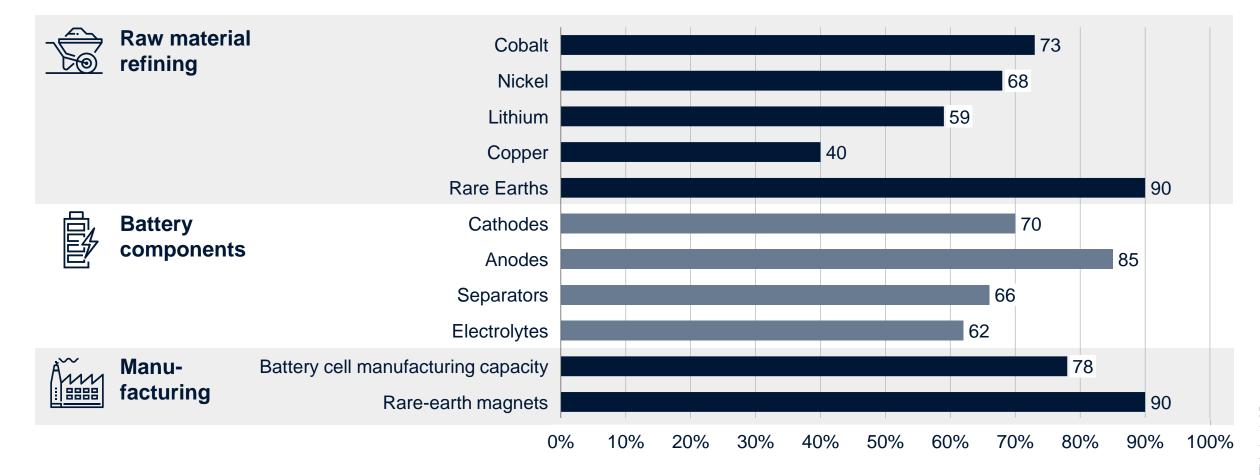
## 14 million

estimated number of EV charging stations in China until 2030; thereof a majority consisting of public fast charging stations

#### China controls key elements of the EV value chain



#### Chinese share on global refining, production of raw materials and EV supply chain components



#### Massive capacity increase for battery production

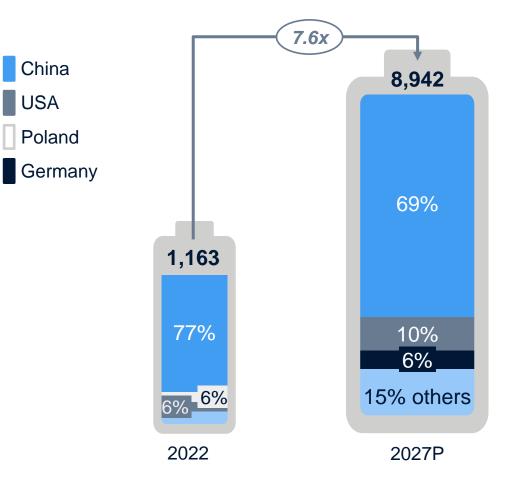


Planned gigafactories for battery production in China until 2030

China is building battery gigafactories at the rate of one every week.

< 10 GWh/ year 10 – 35 GWh/ year > 35 GWh/ year
Areas with high installed capacity for automotive assembly

**Global lithium-ion battery production capacity** (GWh)



# 03 Strategies of Chinese players for Europe





#### Exemplary market entry strategies in Europe

Date of press release:								
08 / 2022	08 / 2022	01 / 2023	01 / 2023	01 / 2023	03 / 2023			
Great Wall Motors	Hongqi	Nio	Polestar	Geely	BYD			
Germany as first entry-market in	ry-market in subsidiary rope Market entry in the tribution in Netherlands by rmany via cooperating with	Expand network of battery swap stations across Europe	Opening of second location in Finland in January 2023 Plan to start production of the Polestar 7 in Europe	Opening of a new Design Center in Milan, Italy	Presentation of plans to establish UK retail network			
Europe Distribution in Germany via Emil Frey Group								
						50,000	1,000	120
required sales in Europe to build a local plant	sold vehicles in Norway in the first half of 2022	Power Swap Stations in Europe until 2023	Sales target p.a.	square meter size	planned dealerships by the end of 2025			

### Chinese OEMs and suppliers enter Europe with full force (2/2)

OEMs



**Automotive** 

suppliers

#### Exemplary market entry strategies in Europe

Date of press release:

Date of press release:		Suppliers			
11 / 2022	01 / 2023	01 / 2023	01 / 2023	08 / 2022	02 / 2023
Aiways	MG	Dongfeng	Xpeng	CATL	Gotion
Aiways expands Technical Center in Munich Considering car manufacturing in Europe	Most significantly in UK, but also relevant in Germany, France, Sweden, Norway, Denmark Successful German market entry with "MG4 Electric"	Delivery of first cars in Norway through new brand "Voyah" Further market entry in Sweden, Netherlands and Denmark are targeted	Opening of delivery and service centers in the first half of 2023 in Europe announced	Announced to build 100 GWh battery plant in Hungary Strategy to secure position as the world's largest battery manufacturer	Lol signed with InoBat for co- development of a JV gigafactory with cell and pack production in Europe
14	61%	500	4	1,200	40
number of European markets served	yoy-sales increase in Europe 2022/2021	Scope of the first batch in Norway of "Voyah Free"	Centers in Norway, the Netherlands, Sweden and Denmark	GWh battery capacity for Europe by 2031	GWh battery production capacity



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