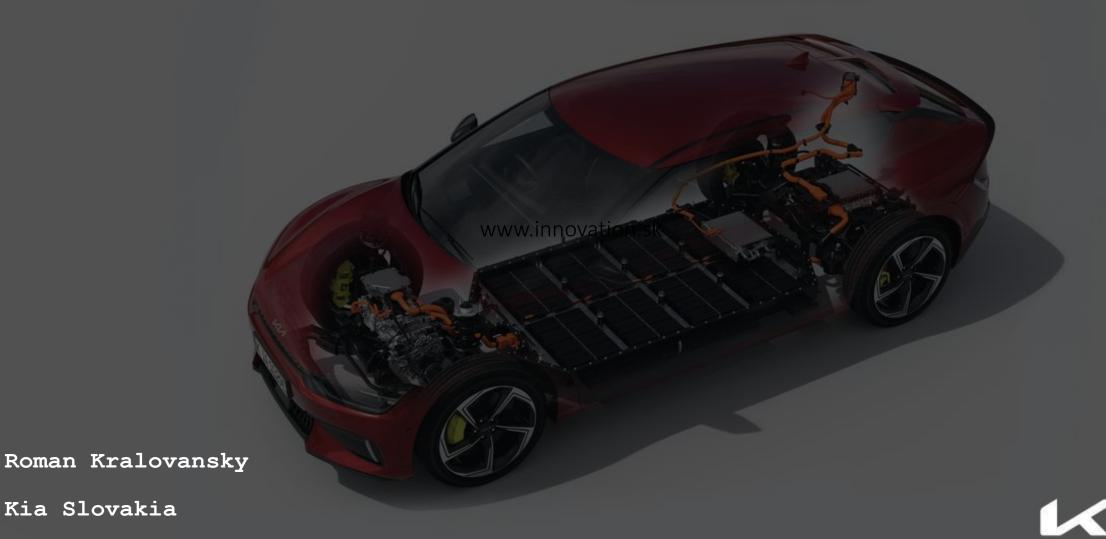
Kia Slovakia on the path of Transformation to Electromobility



Movement that inspires

October 2024

Kia Slovakia

Automotive industry in Slovakia

- > GDP 10,4% auto industry share on GDP
- > 255,000 people directly or indirectly employed by the automotive industry
- > 170,000 people directly employed in auto makers and Tier 1 suppliers







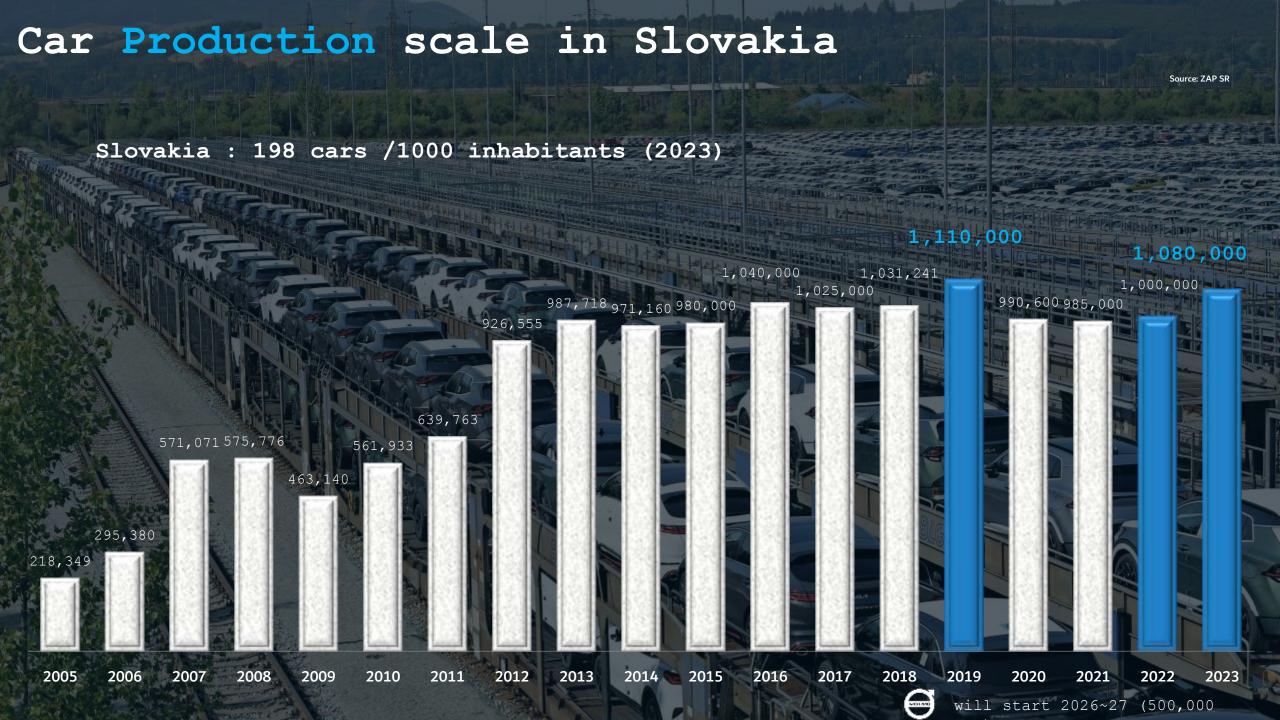




Emp. 11,000 4,500 4,500 3

3,800

source:\AP\$46,5% share of automotive



Hyundai Motor Group

- Hyundai
- Genesis
- Kia

- Hyundai MOBIS
- Hyundai Transys
- Hyundai WIA
- Hyundai MSEAT
- Hyundai KEFICO
- Hyundai IHL
- Hyundai PARTECS

Steel

- Hyundai Steel
- Hyundai BNG STEEL
- Hyundai Special Steel

- Hyundai Engineering & Construction Hyundai GLOVIS
- Hyundai Engineering
- Hyundai Engineering & Steel
 - Industries
- Hyundai City Corporation

nance

- Hyundai Capital
- Hyundai Card
- Hyundai Commercial
- Hyundai Motor Securities

Others

- Hyundai Rotem
- INNOCEAN
- Haevichi Hotel & Resort
- Hyundai AutoEver
- Hyundai NGV
- Hyundai Farm Land & Developm
- GIT
- G-Marine Service

Establishment: 2000

Companies: 56



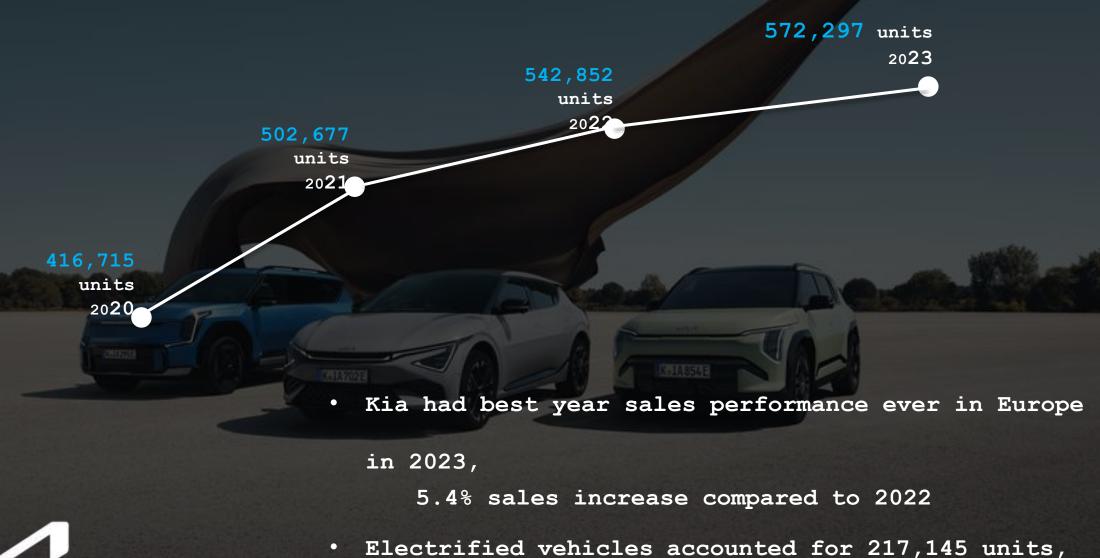
Employees:

000

Kia production facilities



Kia in Europe sales performance



representing a 9% increase over 2022



Kia Slovakia

Employees: 3,800

Capacity: 350,000

Investment: 2.3 billion Euro

Revenue: 8 billion Euro

Area: 192 ha (269 soccer fields)

• Buildings: 28 ha

Products: Sportage, Ceed, engines



40 % (4 body versions)





Engine1: gasoline 1.5,

diesel 1.6

Engine2: gasoline 1.6

9 basic specifications

Export markets 2023

Europe 87.4%:

• UK: 16.4%

• Germany: 10.7%

• Spain: 9,5%

• Poland: 7.8%

• Italy: 7.3%

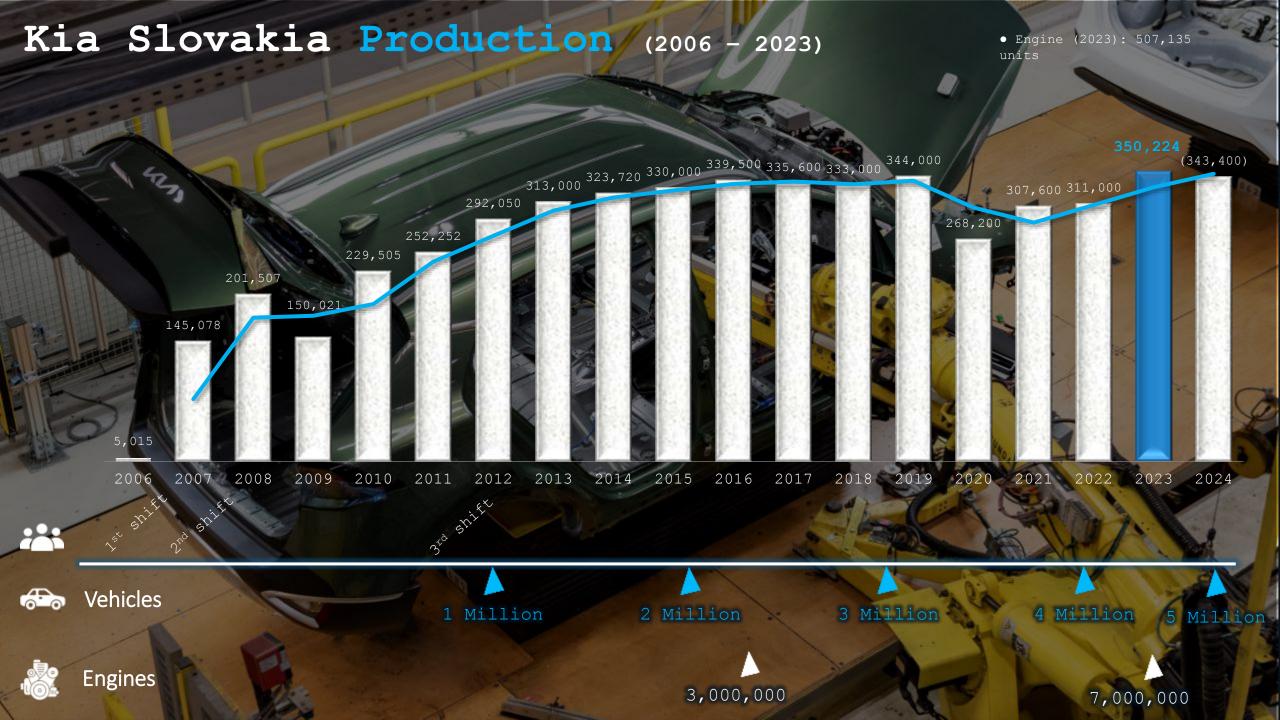
• Slovakia: 2.1%

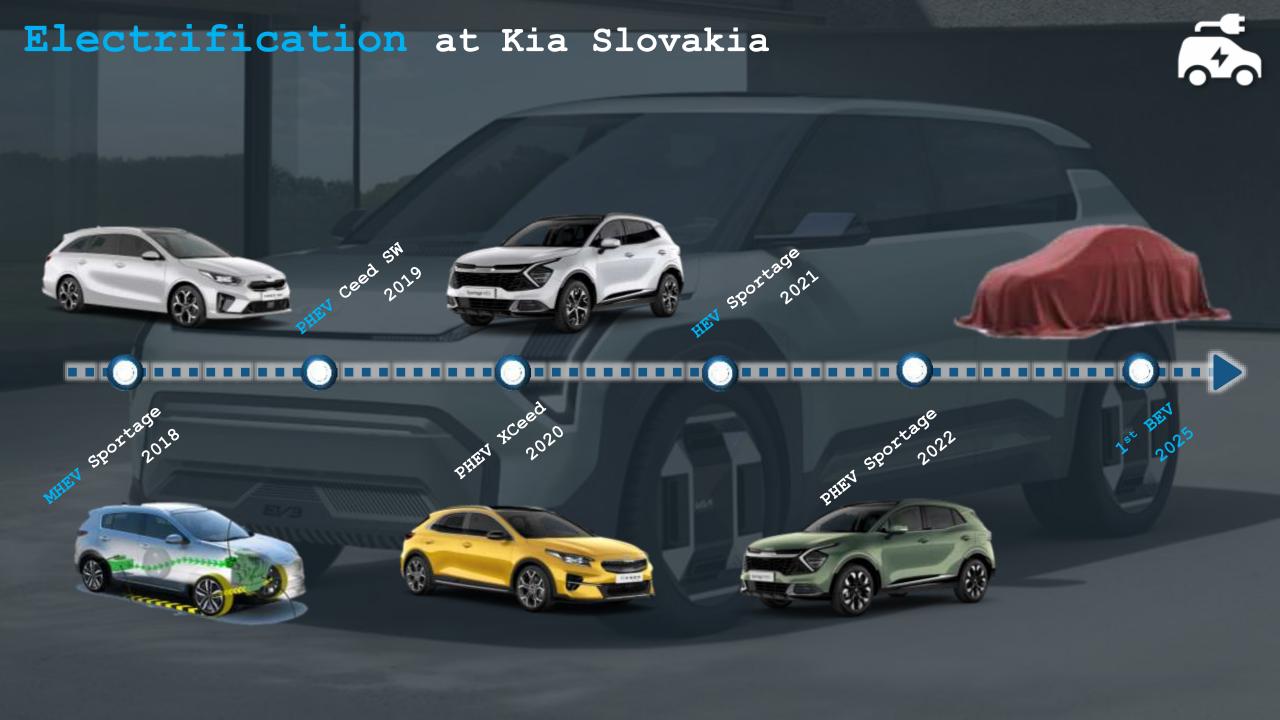
Others 12.6%

2006 : 14

2013 : 69

2023 : 87 countries





Upcoming **Electrification** at Kia Slovakia

CO taxasta



- > BEVs will contribute to global target of Kia brand to achieve carbon neutrality by 2045 (electrification to reduce emissions from vehicle use stage)
- > BEVs will address EU customers demand for electrified vehicles and EU

EU CO2 legislation

... how to understand

Vehicle
,,EU
regulations,,
Emission

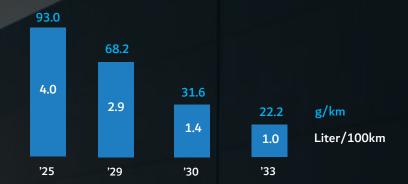
CO₂ regulation (Fuel consumption 1/100km) Emission reg. - EU6,

(THC, NOx, CO, NMHC, PM, PN)

 \square EU CO_2 fleet targets for passenger vehicles 2015-2024:

Year	2015- 2018	2019- 2024
CO ₂ limit	130g/km → 5,81/100km	$95g/km \rightarrow 4.11/100km$

Penalty: 95€ exceed each gram CO₂ /km per vehicle till year 2030 (after 2030 calculation still in development) \square Kia CO₂ simulation target scenario (2025- 2033):



- Influence on calculation fleet CO_2 for years 2025-2030:
 - calculated Fleet CO_2 in 2021
 - number of sold vehicles in year 2021
 - averaged test mass manufacturer's sold vehicles in calendar year
 - EU averaged test mass sold vehicles in calendar year
 - share of sold low CO₂ vehicles (CO₂ below 50g/km)

 "test mass., car weight + operation lique
- Other countries in the world with specific CO₂

 targets:
 Targets

From ICE to BEV

01 Car

- Engine
- Starter & Alternator
- Transmission
- Fuel system
- Exhaust system
- 12V battery



- Electric motor
- HV Battery system
- Battery thermal management
- ICCU + charging plug
- High voltage wiring
- Heat pump
- 12V battery

02 Production

- Body structure
 (mainly floor, new parts)
- Steel → Al, plastic parts
- One line ICE, HEV, PHEV, BEV (uneven work balance)
- Control units modulation

03 Others

• Education & Qualification

(high voltage, new powertrain system)

• Legislation

- Battery- logistic, warehouse, enviro., ...)
- ,,Decarbonization,, reporting

- Safety & cyber Security
- Charging infrastructure



Key Trends in EU BEVs market

Jan-Aug '24 '25

D1 BEVs market slows down, but prediction for 2025~ remains optimistic due to new models launch 21%

*BEVs market share in EU *Slovakia: 2,5% *August '24: YoY drop: -44% 12.5% 12.6%

5.4%

'22

Source: JD Power, ACEA, EU Federation for Transport & Environment

'21

03

Factors for higher demand for BEVs

- Lower charging time
- Longer driving range
- Lower price
- Available

infrastructure
Source: Boston Consulting Group

Growth of Chinese BEV brands in EU 25% > Share of China-made BEVs on all EU BEVs registrations > New plants in EU announced: Spain (Chery), Italy (Dongfeng), Poland (GEELY), Hungary (BYD) Source: EU Federation for Transport & Environment Rapid growth of charging points in EU is needed > 2017~2023: BEVs sales 18x vs Charging points only 6x → 61% of all points is concentrated in 3 countries (Germany, France, Netherlands) > Strong correlation between charging points and sales → highest BEVs sales similar to countries with most chargers (Germany, France, Netherlands) Source: ACEAO plan of EU Commission: 3,5 million new points needed \rightarrow it means 400,000 points per year in next 7 years, Slovakia: below EU

EV Transition, Sustainibility and Competitiveness

Are policies, existing state of clean tech, access to raw materials, and costs all aligned to maintain success?

01 **Transition from ICE to Sustainibility** 0.3Competitivene

Challenges Ahead:

- > To achieve EU
 Ambitious CO2 targets
 and related regulations
- > To build resilient supply chain with focus on circularity
- > To reduce carbon
 emissions across all
 stages of automotive life
 cycle
- > To support continual Development and Innovation related to erological mobilarity position by focus on customer, costs effectiveness and productivity

SS

