### LEM

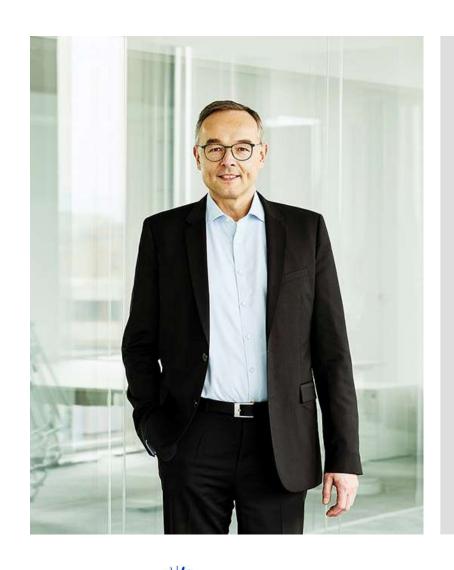
# **Leading the World in Electrical Measurement**



### **Content**

- LEM at a glance
- Our markets and applications
  - LEM solutions in the electricity value chain
  - Our key businesses
  - Our applications
  - Some use cases
- Investing in a sustainable future
  - R&D at LEM
  - Our production capacities
  - Our people and values
  - Our responsibility





"At LEM we help our customers and society accelerate the transition to a sustainable future."

Frank Rehfeld, CEO



# LEM at a glance



Leading the world in electrical measurement, LEM engineers the best solutions for energy and mobility, ensuring that our customers' systems are optimized, reliable and safe.



### LEM at a glance



### 1,700 people in 17 countries

We transform technology potential into powerful answers



### **Best global talent**

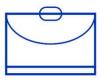
We develop and recruit talent at the forefront of mega trends such as

- renewable energy
- mobility
- automation
- digitization



### Innovative electrical solutions

We help our customers and society accelerate the transition to a sustainable future



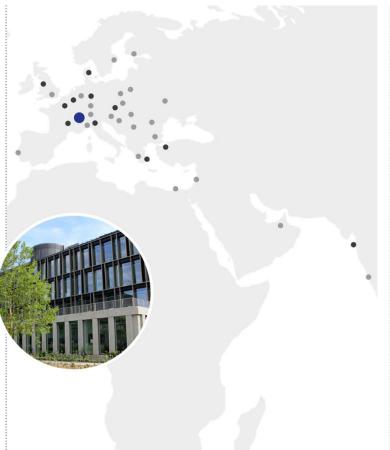
## The broadest product portfolio in the industry

- From Integrated
   Current Sensors to fully instrumented modules
- Single/multi-phase
- Core based/coreless
- Busbar/PCB/cable mounting











#### EMEA

Geneva, Switzerland Frankfurt, Germany Vienna, Austria Brussels, Belgium Randers, Denmark Paris, France Padova, Italy Skelmersdale, UK Lyon, France Sofia, Bulgaria

#### CHINA

Beijing Shanghai Shenzhen Xian Hefei Taipei, Taiwan Wuhan

#### **AMERICAS**

Milwaukee, Wisconsin Detroit, Michigan Bridgewater, New Jersey Columbia, South Carolina Los Angeles, California

#### REST-OF-ASIA

Pune, India Seoul, South Korea Tokyo, Japan Penang, Malaysia\*

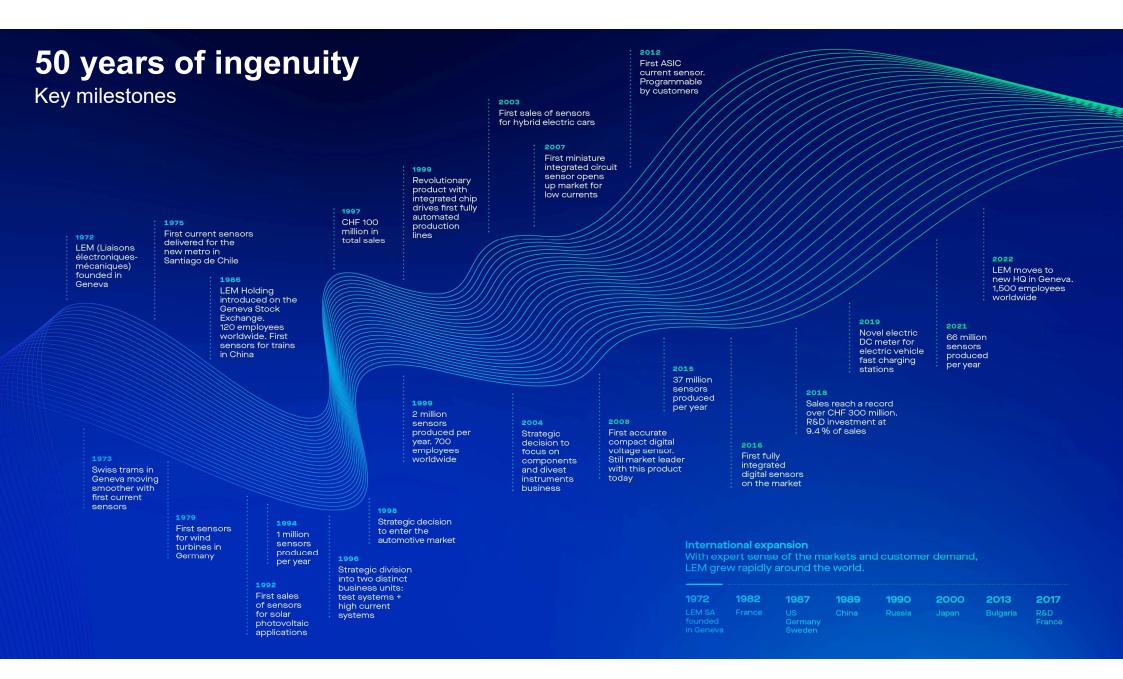
\* Penang site is still under construction

### A global footprint

Headquarters in Geneva, Switzerland





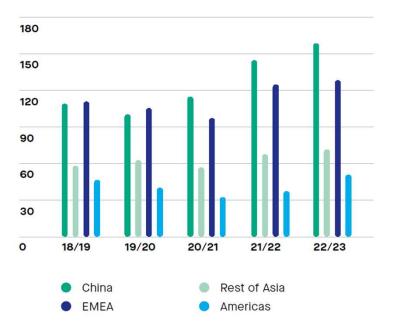


### **Broad global sales**

- Balanced geopolitical and economic exposure
- Close to customers
- Strong focus on direct sales

### Regional sales breakdown

in CHF millions



406.4

Annual sales in CHF millions

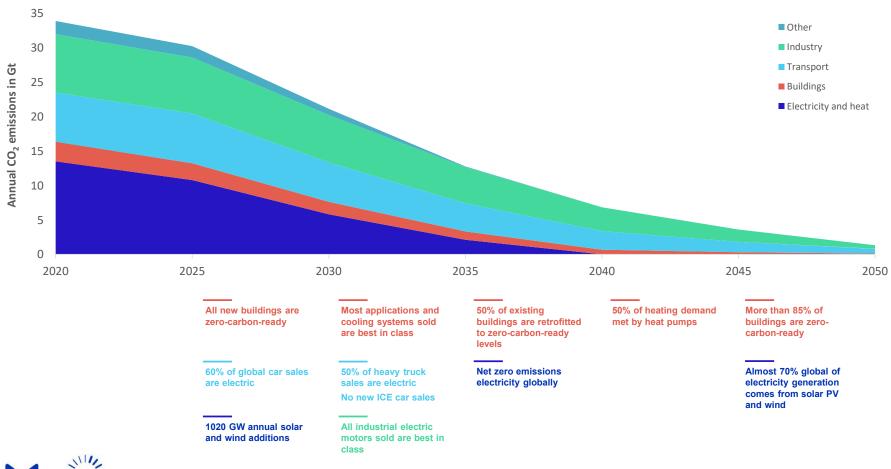
+8.8%

Sales growth



### A long-term vision

Considering the key milestones in the pathway to global net zero emissions by 2050...

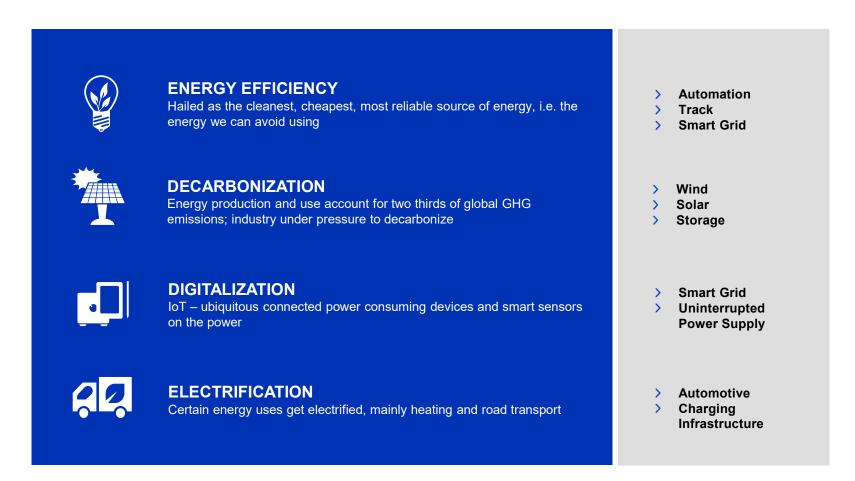






### A long-term vision

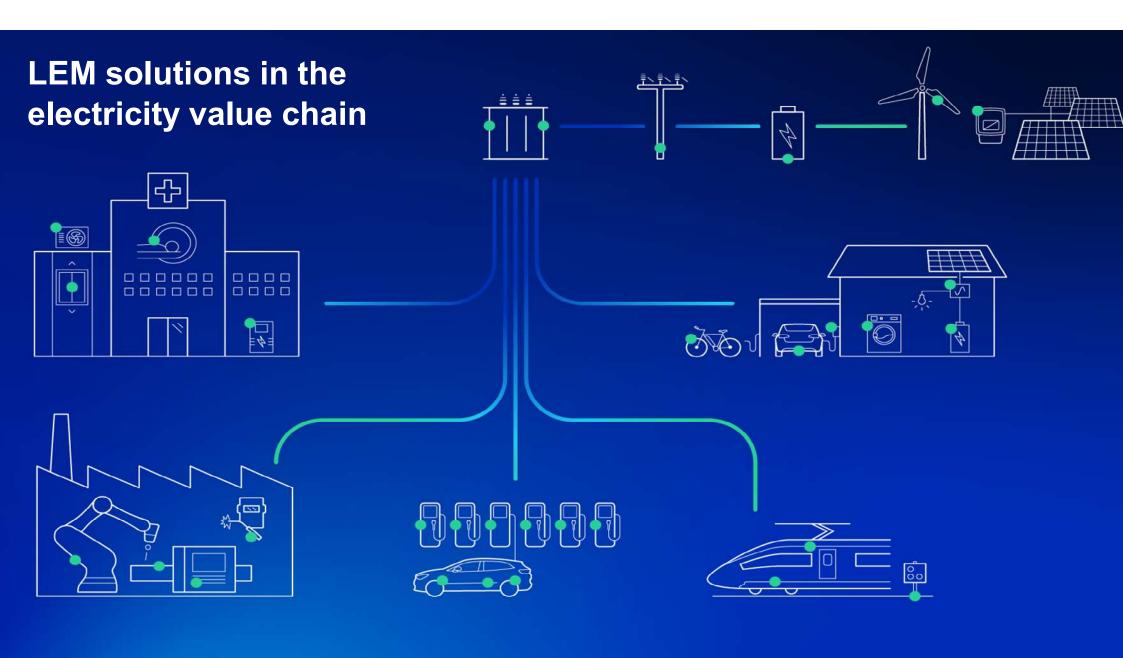
...LEM is strategically positioned and has a role to play in all the mega trends.





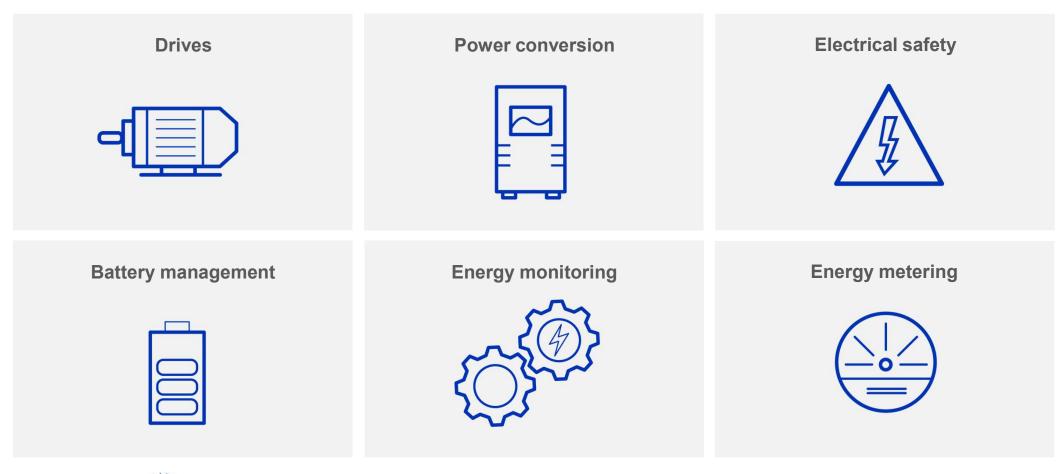
# Our markets and applications





### **Our applications**

LEM sensors and solutions play a key role in 6 areas





### Our product portfolio

The widest choice in the electrical measurement industry



+2,000

products

+240

product families

0.005 - 24,000

Amps measurement range

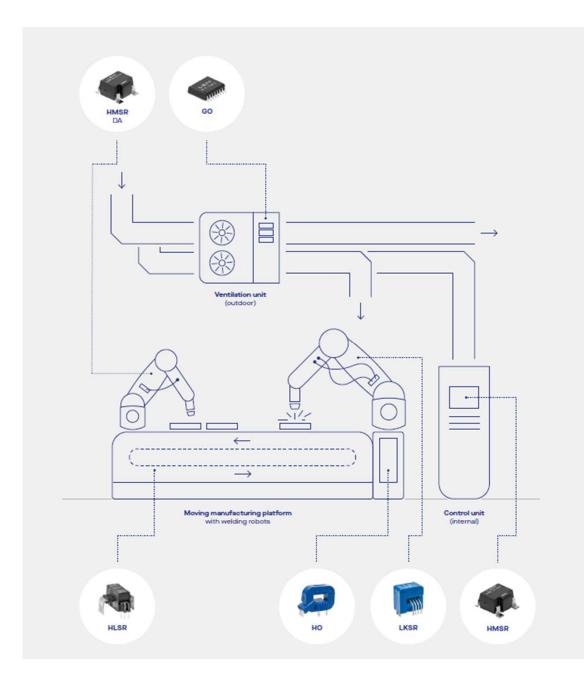


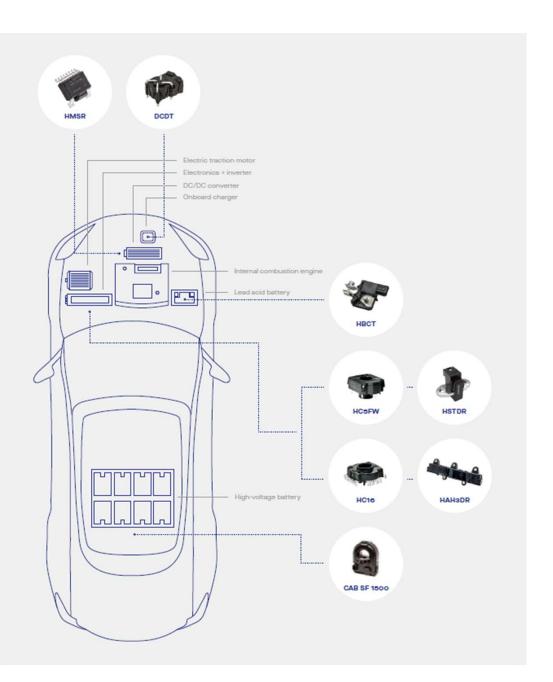
### Our 5 businesses



### **Automation**

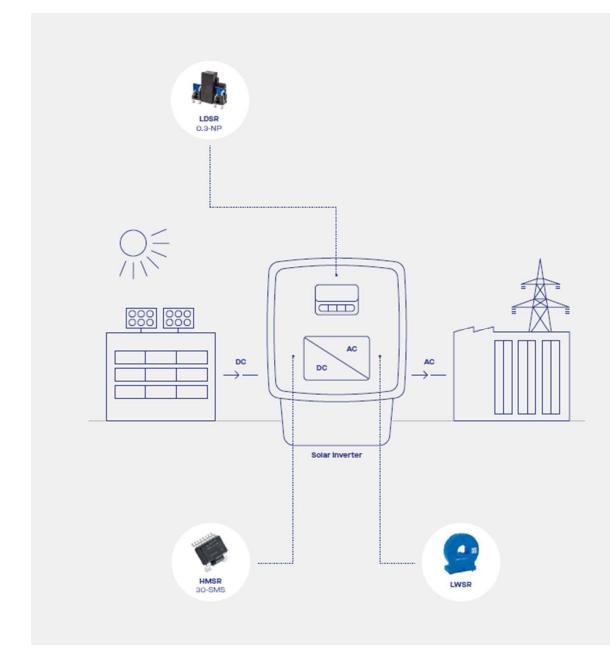




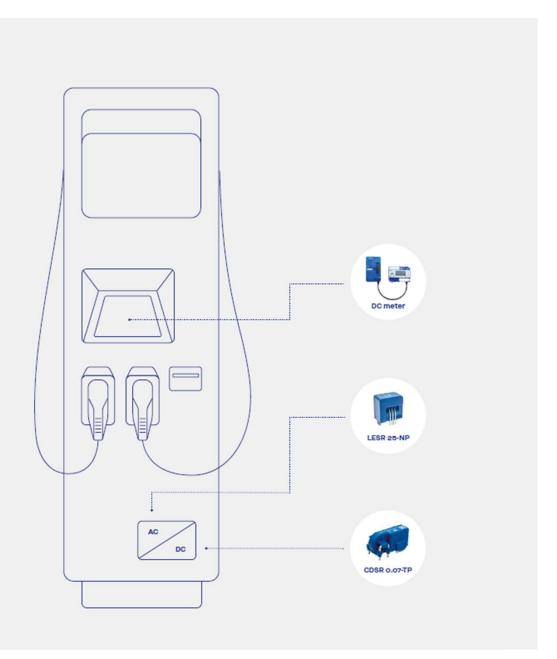


### **Automotive**

### **Renewable Energy**



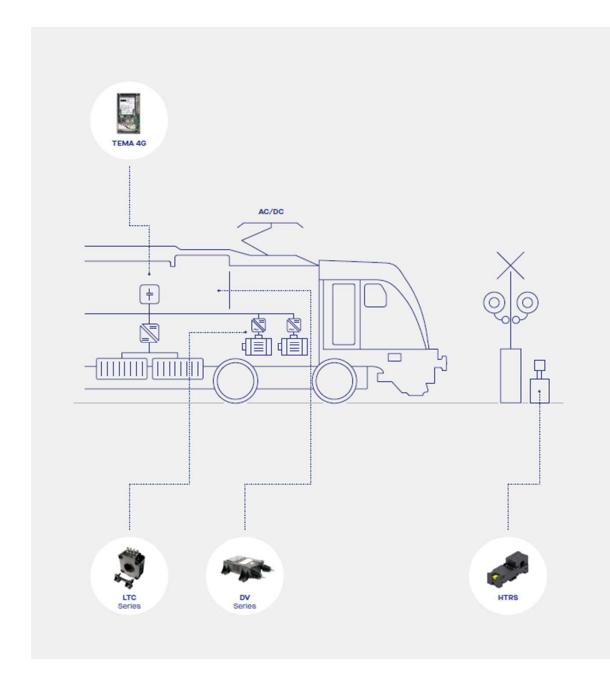




# **Energy Distribution** and **High Precision**

### **Track**

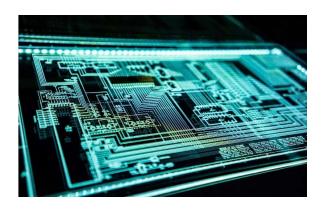




# Investing in a sustainable future



# Continuously growing our expertise and know-how



ASIC DESIGN
to make sure electronics
is tailored to your
application constraints
and sensing needs



**DEVELOPMENT**to fit the needs
of the markets tomorrow

**PRODUCT** 



SOFTWARE
to process and display
the data our sensors
and systems collect

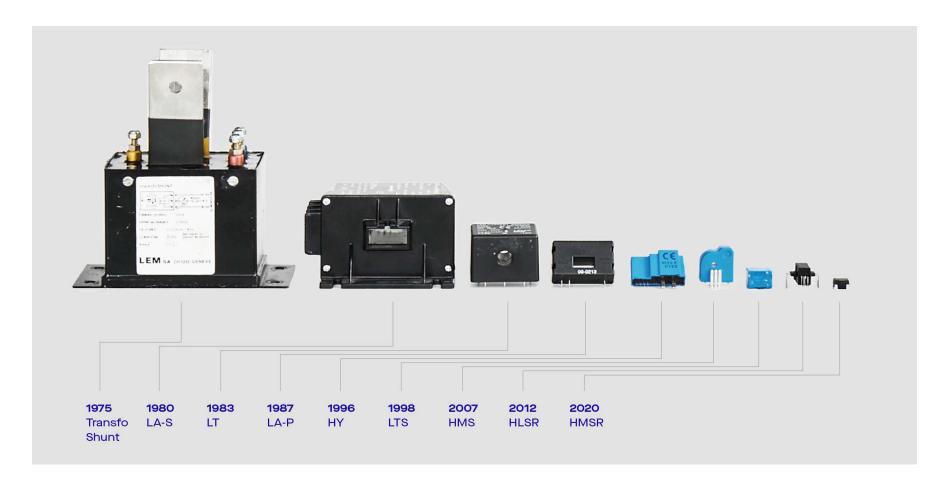


MANUFACTURE AND TESTING to ensure state-of-theart industrialization solutions



### New technologies drive miniaturization

Precision DC and AC current sensors are getting smaller and smarter





### **R&D** at LEM



**R&D** key figures

22/23

14%

of our workforce

32.3m

**CHF** investment



### Our focuses for innovation





- Leveraging new technologies: smart sensors
- Capturing new opportunities in integrated current sensing
- Developing innovation at scale
- Collaborating closely with our customers and local universities
- Developing capabilities





### Our production capacities



4

Production centers in China, Bulgaria, Switzerland, Japan + sub-contractors

11,000

sqm total production surface

**700** 

total production workers



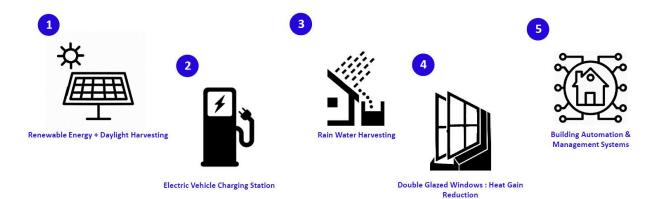


### **Our new plant in Penang**

Groundbreaking: May 2022

Building: 12'000 sqm, 2 floors, 8'000 sqm Operations

Environment: Green Building Index













### **Our values**



We believe that sustainable and ethical practices create long-term value for all stakeholders and assure the longevity of businesses.

### Together we...

- are customer driven
- operate with integrity
- value teamwork
- commit to our goals
- strive for excellence
- lead innovation

This is the spirit and intent of everything we do.





### 1,700 professionals across 17 countries

Inspired by helping customers and society accelerate the transition to a sustainable future we embrace and enact a Constructive Culture









#### **LEM Blue Behaviors**

1

Innovation and continuous improvement mindset

2

Customer orientation and growth mindset

3

Team player mindset

4

Player/Learner mindset





### **Developing and recruiting the best talents**

## Human-sized company with a global footprint

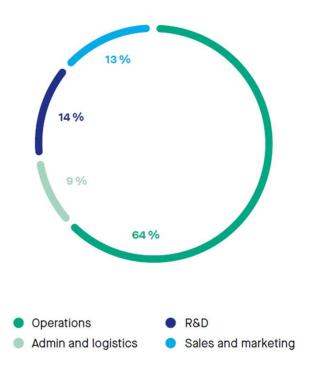
- Collaborative culture
- Mobility and career evolution
- Healthy work/life balance

### **Qualities of LEM people**

- Technical excellence and leadership
- Creative and innovative thinking
- Ambition and accountability

### Workforce by activity

1,716 total employees



### **Average length of service**

1,488 permanent employees







### **Engaged in a sustainable future**

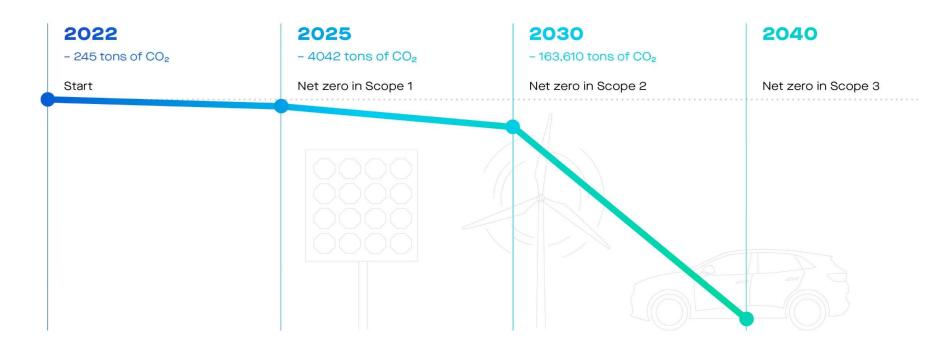




### On our way to CO<sub>2</sub> neutral

### LEM's CO2 reduction roadmap

Our ambition is to become net zero across all scopes until 2040. We aim to achieve this by avoiding and reducing most of our emissions and balancing any remaining emissions that cannot be avoided and eliminated.





# life energy motion

