

Korea Advanced Technology Center (KATC)

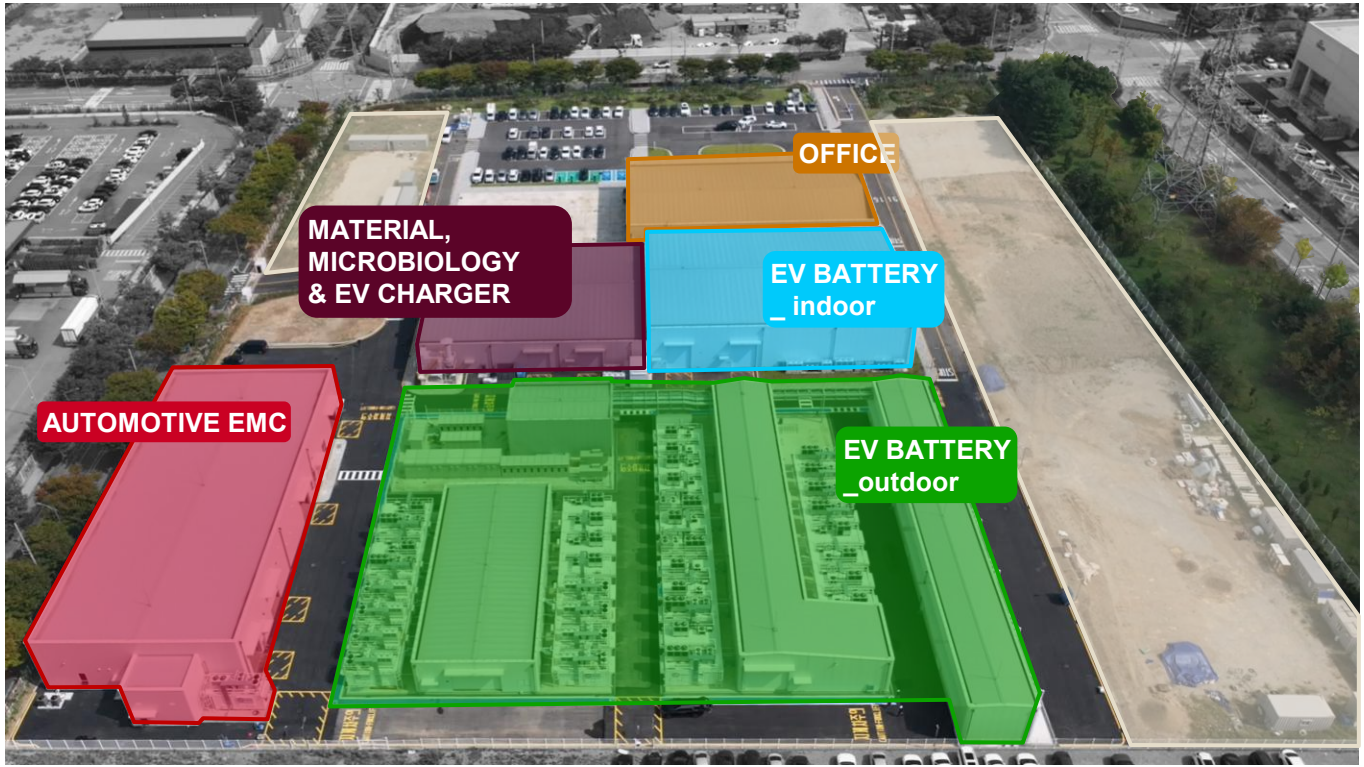
Introduction

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Safety. Science. Transformation.™

Korea Advanced Technology Center (KATC)

Supporting the safety and global competitiveness of future mobility technologies



- Continuous expansion
- Automotive EMC
- Microbiology and safety
- Battery, charger, materials

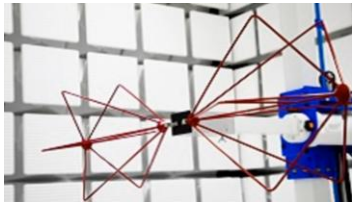
- Total ***33,000*** sqm

Test services at KATC

Strengthening future mobility through testing and certification of batteries, chargers, automotive components and materials

Automotive EMC testing

EMC and wireless testing for EV batteries and high-voltage automotive components to support vehicle safety, security and performance



EV and industrial battery testing

Testing for abuse and fire exposure/thermal propagation and performance at the cell, module and pack levels to help EV original equipment manufacturers



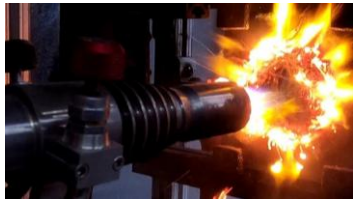
EV charger testing

Safety and interoperability testing for EV charging infrastructure and EVSE, support for U.S. and global market compliance, expertise in international standards and regulations



Automotive material testing

BEMS and BETR evaluation under UL 2596, thermal runaway material performance assessment to help material manufacturers, suppliers and automotive OEMs



Microbiology testing

Microbial reduction testing for household appliances, support for sanitary standards compliance, validation of hygiene performance, safer and cleaner product development



Automotive EMC Laboratory

Testing for:

- High-voltage battery systems
- Power electronics
- Electric drive units and e-motors
- Charging systems and components
- Automotive electronic components
- OEM EMC validation



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EV Battery Laboratory

Testing for:

- Performance and life cycle testing
- Thermal and environmental testing
- Design and production verification (DV/PV) testing



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EV charger Laboratory

Testing for:

- AC EV chargers
- DC EV chargers
- EV charger power modules
- EV charging connectors



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EV charger Laboratory

Testing for:

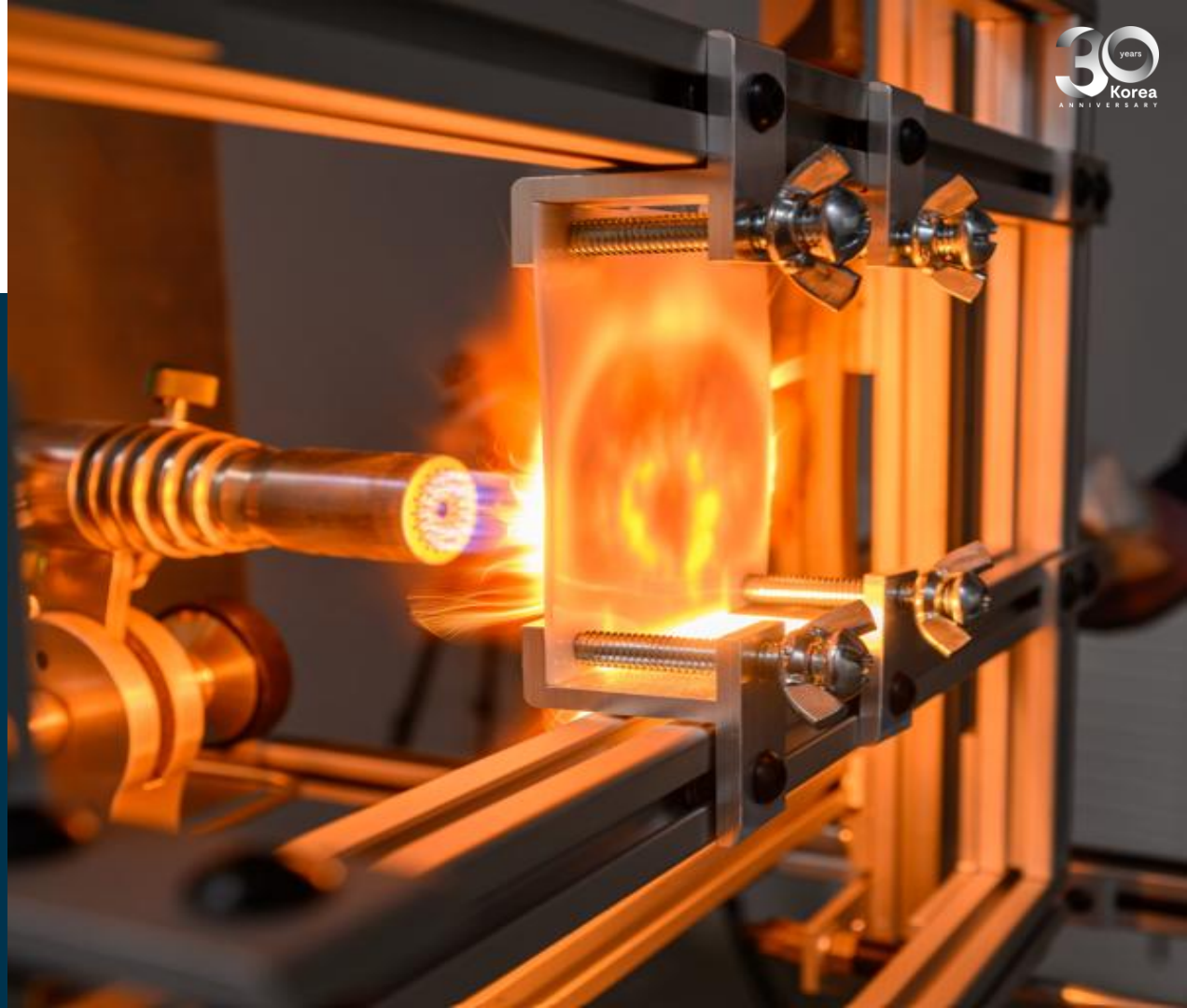
- AC EV chargers
- DC EV chargers
- EV charger power modules
- EV charging connectors



Material Laboratory

Testing for:

- EV battery materials
- Flammability
- Mechanical and electrical performance

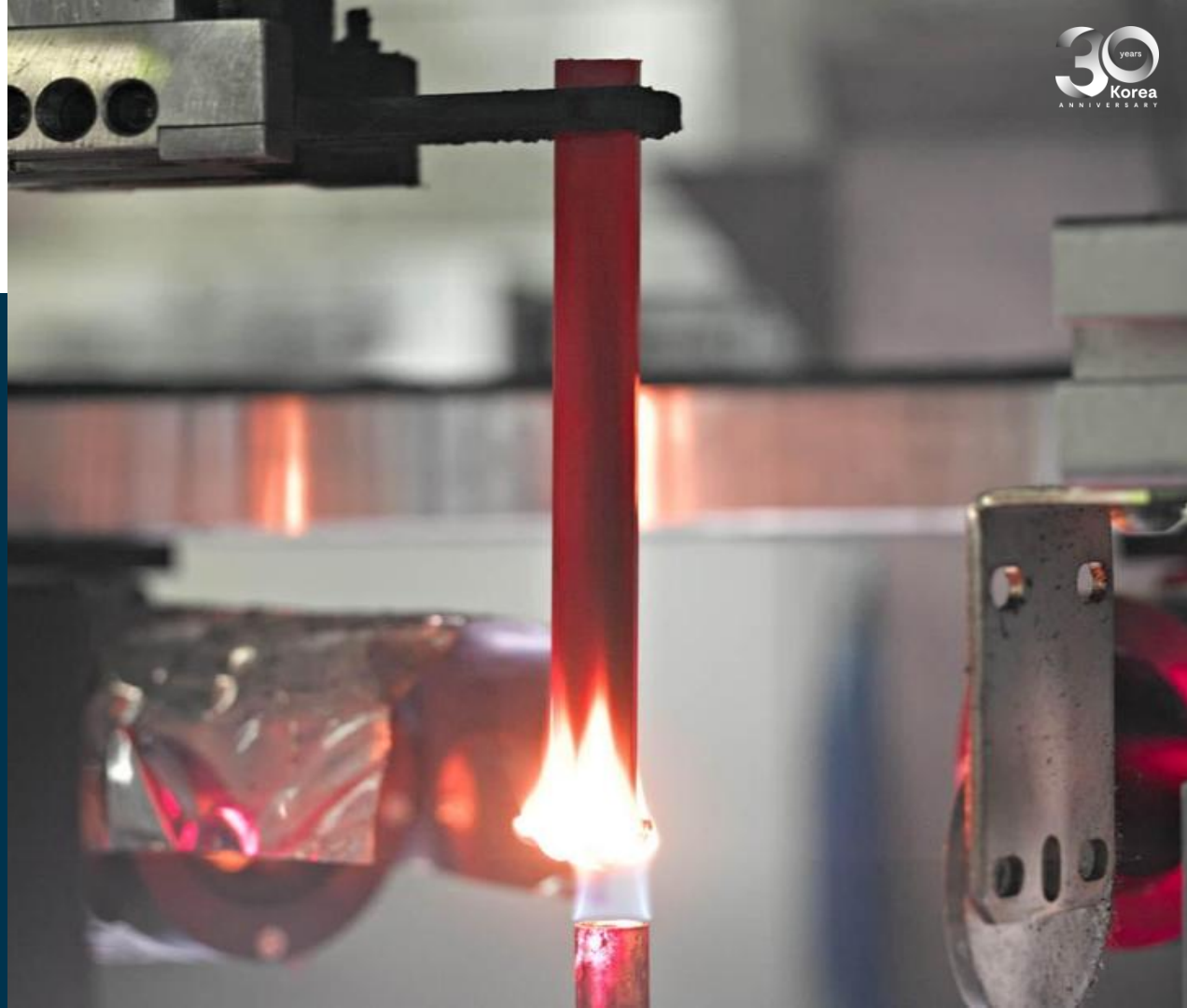


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Material Laboratory

Testing for:

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Microbiology Laboratory

Testing for:

- Consumer appliance performance testing
- Specialized R&D and validation
- Material antimicrobial analysis
- Specialized microbiological evaluations



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Safety management in KATC

Protecting people and products through advanced safety management

Fire suppression system

An engineered network of equipment automatically detects fires and releases agents to control or extinguish them before they spread



Battery immersion system

In the event of a battery module fire, the system immediately descends and is extinguished by water



Fire drill training

Regular drills with the local fire station reinforce emergency preparedness and response capabilities



Thank you

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