

# Newsletter November, 2022



# ICR



# Hot Issue

1. Opening of battery testing service
2. Designated Testing Agency Association  
Wireless Subcommittee Technical Council
3. ESG structure and ISO management system relevance



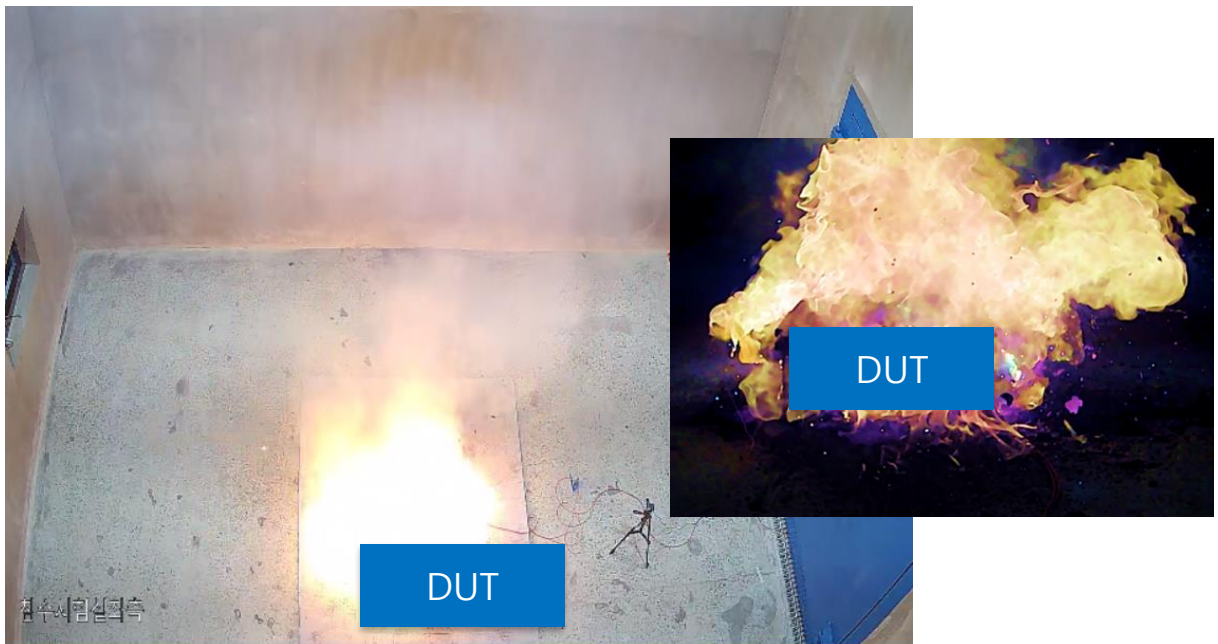
# Opening of battery testing service

- **ICR battery testing center** has been providing testing services for test equipment and facilities that have finished installation since September.

All clients were satisfied with our testing service and it was the first step in the successful business.

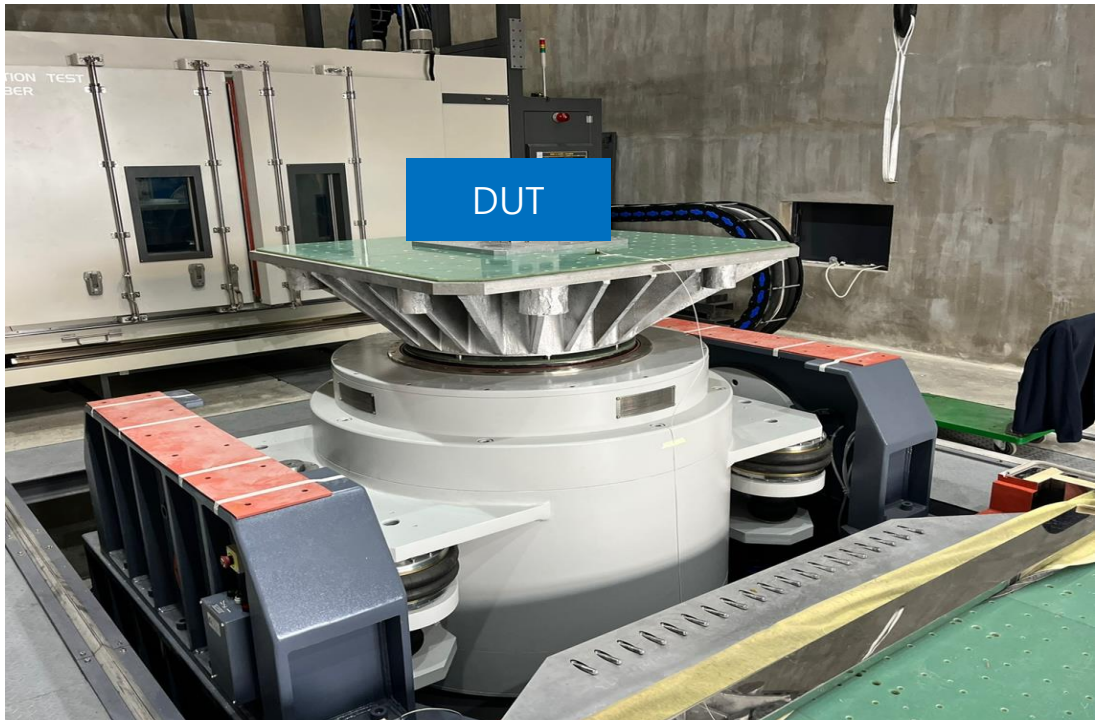
- **Thermal runaway**

Thermal runaway test about **Li-Ion pouch cell** was carried out safely and the wet scrubber was also successfully operated.



# Opening of battery testing service

- We conducted a **vibration test** for UN ECE R136 homologation of **LIB pack** for electric motorcycles.



- If you have any inquiry about battery testing and certification service as well as Thermal Propagation test, please feel free to contact our Battery Testing Center.

 **Inquiries**

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# Designated Testing Agency Association Wireless Subcommittee Technical Council



## ■ 1. Schedule and Participants

- ▶ Schedule and Venue: 9.22. ~ 23. / Wired/Wireless Test Lab of Radio Test Certification Center
- ▶ Participants : 5 people including National Radio Research Institute (Chung-hyeon Yoo, Yu-seon Pyo, Byung-jun Kang), RFcore

## ■ 2. Implications and further discussion

- ▶ It is impossible to accurately measure the maximum frequency shift\* of the emitted radio waves with a general-purpose spectrum analyzer, so it is necessary to define and estimate the chirp bandwidth.

\* Theoretically, the maximum frequency shift is 1/2 of the chirp bandwidth.

- ▶ Since the drone detection radar emits a random frequency within the frequency band, it is difficult to apply the general frequency tolerance, so further discussion is required.

# Designated Testing Agency Association Wireless Subcommittee Technical Council



- ▶ In order to measure imported equipment, it is inevitable to expose the sealed equipment output port, but it is unclear whether importers will support it, so further discussion is necessary.
- ▶ Confirmation tests should be carried out for equipment in the 8.5~8.6 GHz (pulse method) and 15.7~17.2 GHz (FMCW) bands, but additional discussion is necessary as it is impossible to secure samples.

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# ESG structure and ISO management system relevance

## ■ What is ESG?

When making investment decisions, it refers to evaluating the sustainability of a company based on environmental, social, and governance criteria. ESG is a key factor for a company to achieve a **'sustainable' business**, and it can be defined as a non-financial indicator that has a huge impact on a company's mid- to long-term corporate value even though it is not shown in the company's financial statements.

## ■ ESG Market Trends

Companies that have invested in pension funds and reported high earnings in the UK, Germany and Sweden have been revealed to be strong in ESG, and the culture is spreading to many companies.

In Korea, **the Financial Services Commission requires an ESG notice** for all listed companies with more than 2 trillion won in assets **from 2025**. ESG is no longer an option.

# ESG structure and ISO management system relevance

## ■ ESG Structure

### Environmental

- Climate change and carbon emissions
- Environmental pollution and environmental regulations
- Resource and waste management
- Energy efficiency
- Ecosystem protection

### Social

- Worker safety
- Working environment
- Client satisfaction
- Community Relations
- Data protection

### Governance

- Business Ethics
- Fair competition
- Lobbying and political donations
- Composition of the Board of Directors and Committee
- Compliance

## ■ Relevance of ESG Structure and ISO Management System Certification

In the ESG evaluation model, certification of 'ISO 14001 Environmental Management System, ISO 45001 Occupational Health and Safety Management System, and ISO 37001 Anti-Bribery Management System' accounts for a large proportion. In order to make the ESG assessment more objective and reliable, one of the good alternatives is to utilize the ISO standard system.





# ESG structure and ISO management system relevance

## ■ The Strength of ICR on ESG

- ▶ **ICR** continuously monitors international and domestic trends to respond quickly to market trends on ESG. In addition, for domestic companies preparing for ESG management, ICR will quickly respond to market trends on ESG and support companies that need ISO certification.
- ▶ Most of the things required by ISO are things that companies should basically operate. ICR is not a certification that a company has to prepare formally and consumes time, but will proceed with **ISO certification to help the company's ESG management.**

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