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# NAATBatt 2020 CSA Group Member Update

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# CSA Group – 100 Years of Heritage

FOCUSING ON THE FUTURE SINCE 1919

## Testing, Inspection, and Certification



Reliable testing expertise across major industries around the world

**2000**

**Employees**

**+2250**

**Accredited  
Certification Programs**

**39**

**Offices**

**+200**

**Countries**



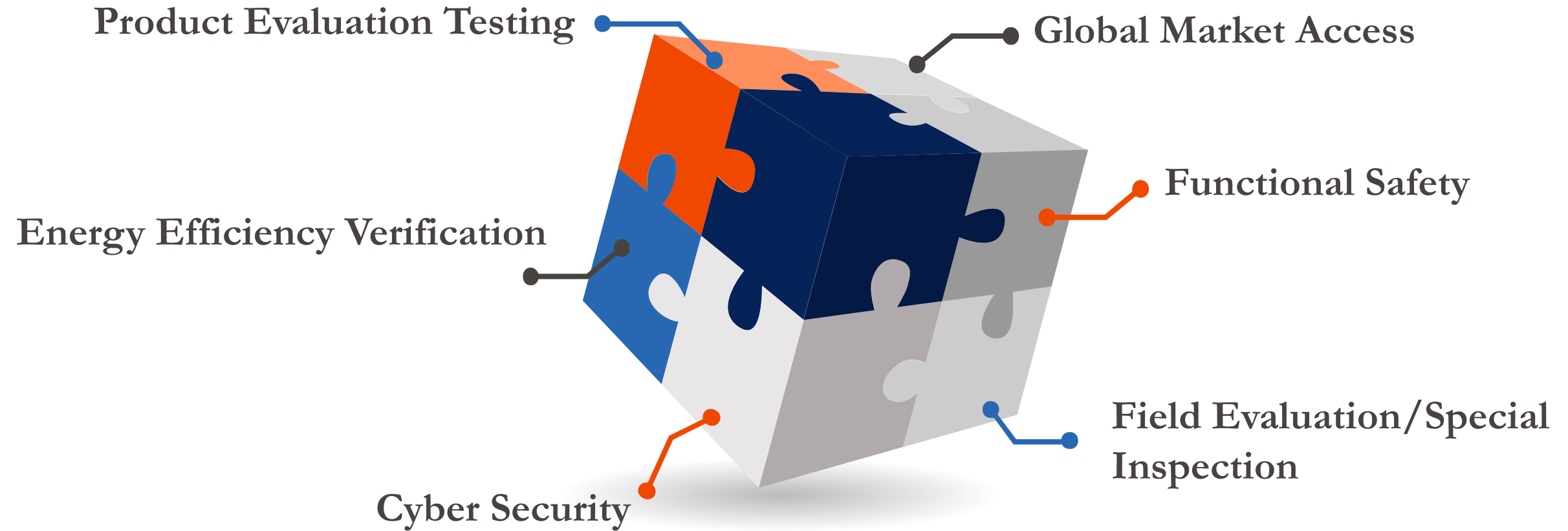
# Certification Marks and Labels

CSA Group certification marks are recognized throughout the world on many common household items, as well as commercial equipment. Some examples shown below:



# Additional Services Complement Certification

CREATING SOLUTIONS THAT ENABLE YOUR BUSINESS



# Battery Testing and Certification

- Testing and certification for cells and packs
  - Transportation testing
  - US, Canadian, International certification
  - Benchmarking, quality assurance, third party attestation of performance
- Energy storage system certification
  - Battery, System, and supporting component certification
  - Fire testing
  - US and Canadian Field Evaluation and Special Inspection
- E-Mobility applications
  - LEV and consumer/industrial certification

Technical Information Service (TIS):  
Upfront meeting to help you understand the  
applicable standards and develop a successful  
compliance plan



## Common Standards:

- **Cell/Pack**
    - UN 38.3
    - IEC 62133
    - UL 1642, 2054
    - IEC 60086 series
    - Lead acid – UL 1989, IEC 60896 series
  - **Energy Storage**
    - UL 1973, 9540
    - UL 9540A
    - IEC 62619
    - Functional Safety
  - **E-mobility**
    - UL 2271, 2272
- ... and many more

## New for 2020: Repurposed Battery Certification

- NAATBatt is a leading organization on the important discussion of end of life for batteries
- Concerns exist regarding performance and safety of repurposed batteries

CSA is now Accredited  
to provide UL 1974  
certification

### ANSI/CAN/UL 1974 “Evaluation for Repurposing Batteries”

- Process standard to review the sorting and grading of batteries
- Goal is to enable a process which leads to repeatable, quality results
- UL 1974 compliant products still need to comply with relevant product standard such as UL 1973

# New Developments – Cybersecurity

- Effect of cyber attack on an ESS
  - Compromise safety
  - Financial loss
  - Loss of confidentiality
- Current ESS codes and standards do not reference cyber security
- Cyber protection is critical from design phase through ongoing maintenance – response to the inevitable attack is a critical aspect of the process

CSA can provide a full spectrum of services for cybersecurity







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# Thank you.

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