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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

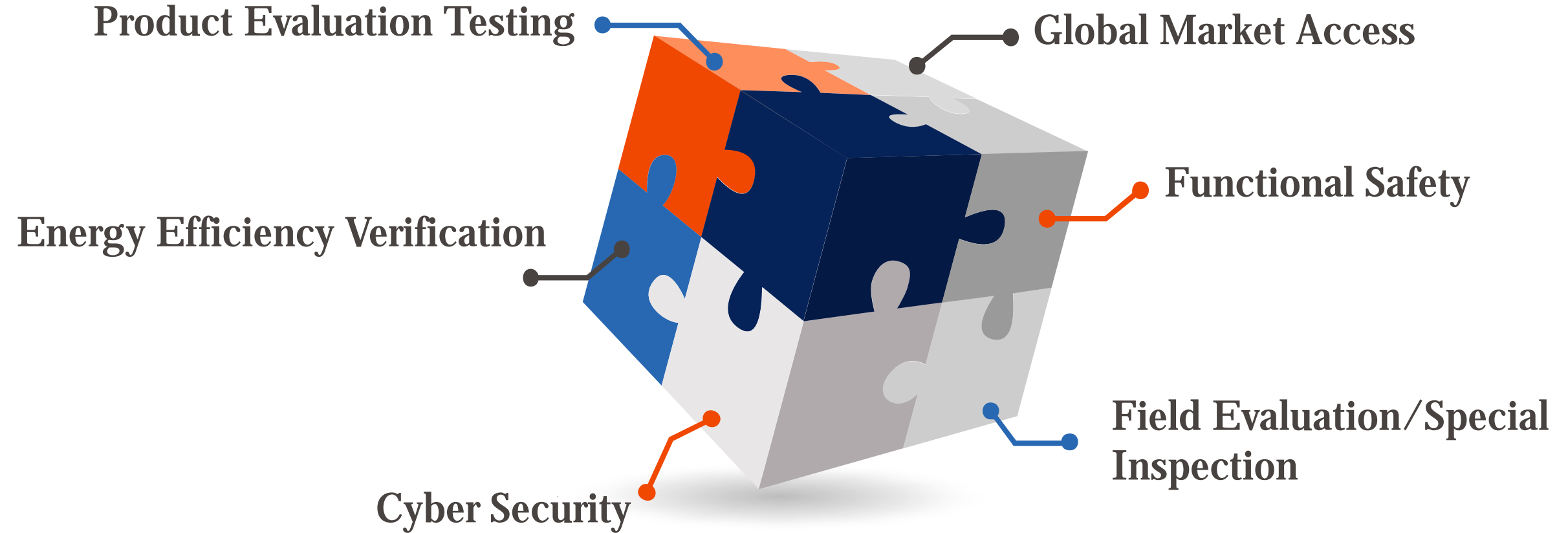
CSA Group certification marks are recognized throughout the world on many common household items, as well as commercial equipment. Some examples shown below:





# 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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