

# Lithium Battery Recycling & Lifecycle Management

## WORKSHOP VIII

### Day Two Welcome

**Second Use Committee**  
Don Karner  
John Kincaide

# Day 2 Agenda



Availability

Transportation

Applications

Regulation

Economics

# 2<sup>nd</sup> Use Committee Pathway



**Availability**

**Transportation**

**Applications**

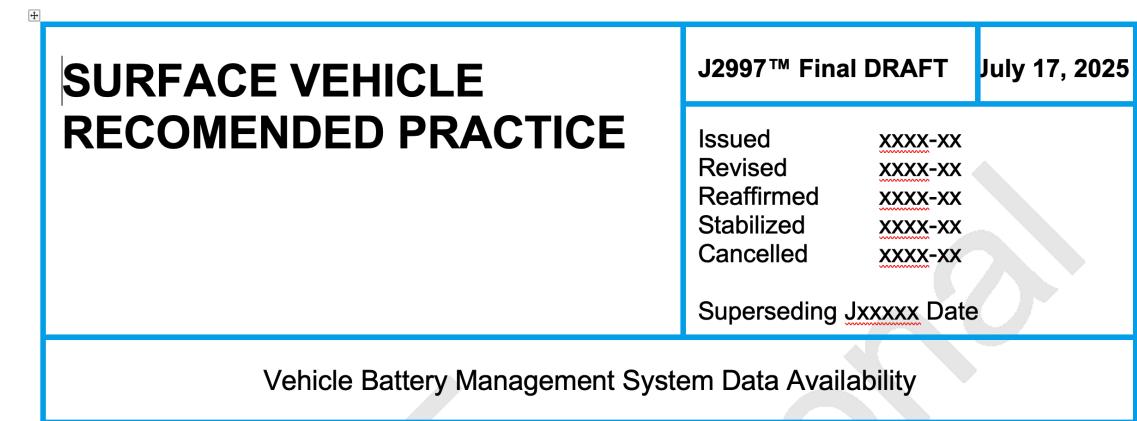
**Regulation**

**Economics**

# Automotive Batteries 2<sup>nd</sup> Use



- Economics linked to regulation
- Evolving standards
  - Abnormal operation
  - Shock & vibration
  - Crush & penetration
  - Thermal runaway mitigation
  - 2<sup>nd</sup> use
- Self certification



# 2<sup>nd</sup> Use Stationary Battery



- Evolving standards
  - Siting
  - Operation & maintenance
  - Component certification
  - Thermal runaway mitigation
  - Emergency planning
- 3<sup>rd</sup> party certification
  - International Building Code
  - International Fire Code
  - NRTL listing
  - Local code inspection

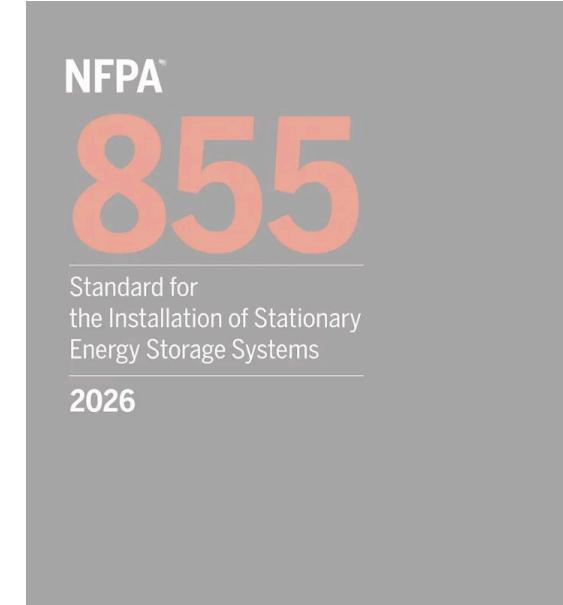
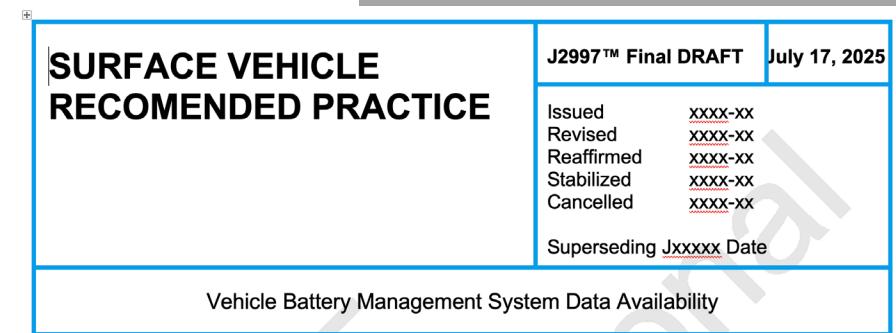


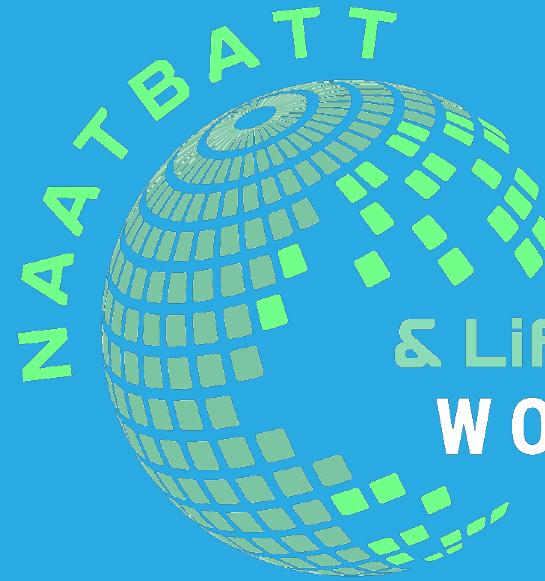
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# V2G Opportunity



- Reuse complete OEM battery packs
- Coordinate OEM and Building Code requirements
  - V2G - 1st use stationary
  - Seamless transition
  - Code compliant stationary 2<sup>nd</sup> use applications
- Barriers
  - Self vs. 3<sup>rd</sup> party certification
  - Factory audits
  - Home brews
  - Slow code evolution





## Lithium Battery Recycling & Lifecycle Management WORKSHOP VIII

ENJOY DAY  
Come Help The 2<sup>nd</sup> Use Committee

