

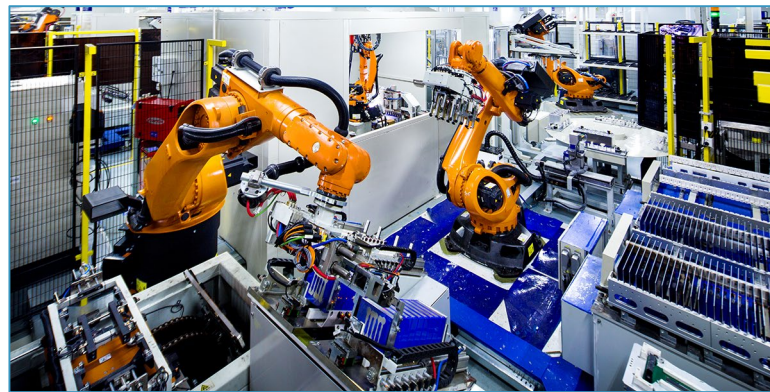
ENERDELTM

Improving the Safety of Lithium-Ion Battery Systems

February 2020 - NAATBatt Annual Conference



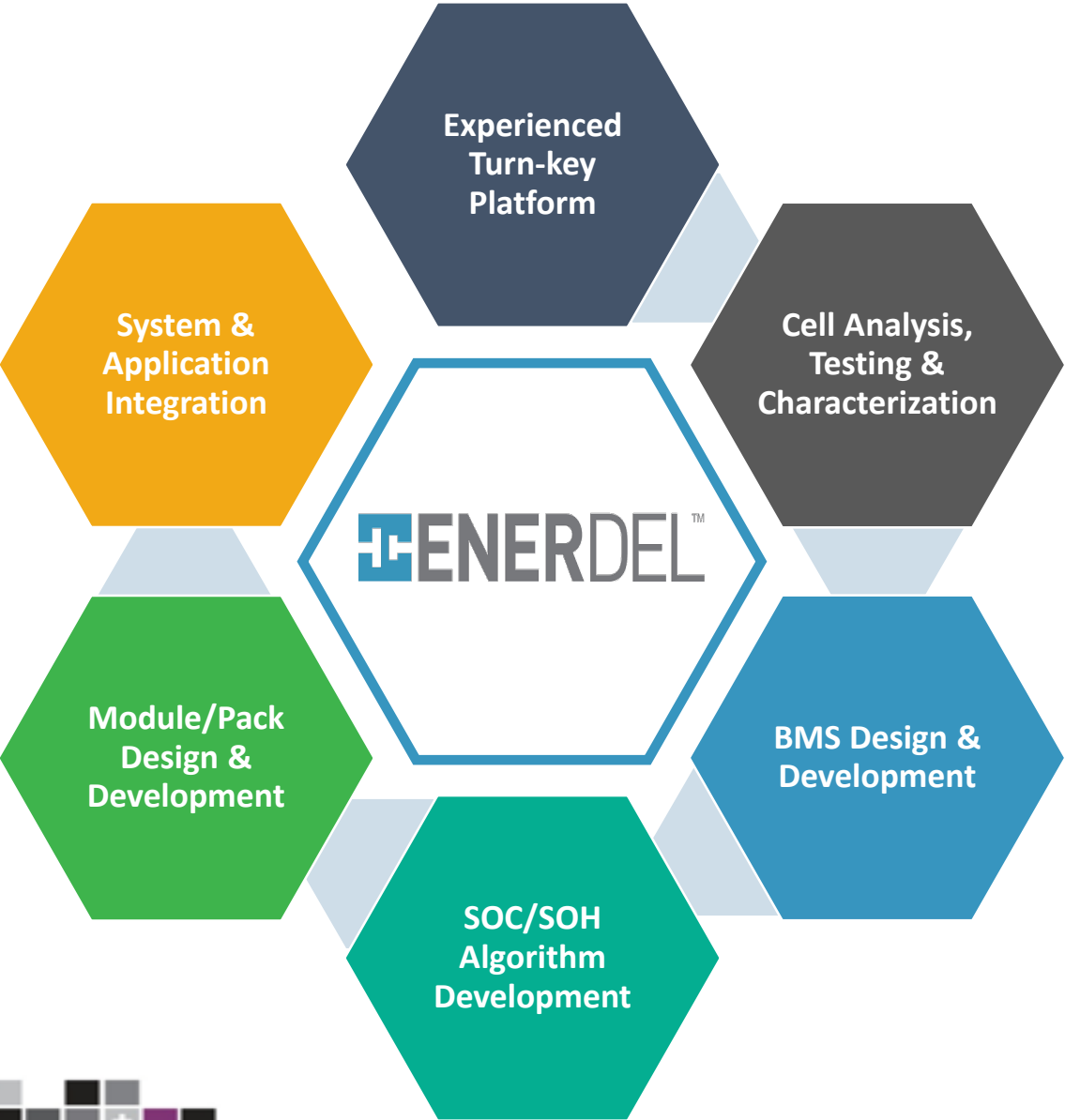
Commitment to Safety – Focused on What Matters Most



- Qualified Sources
- Relevant Experience
- Demonstrated Capability
- Know Your Customer and Commit to Educating/Training



Safety is our responsibility – advantages of being vertical integrated

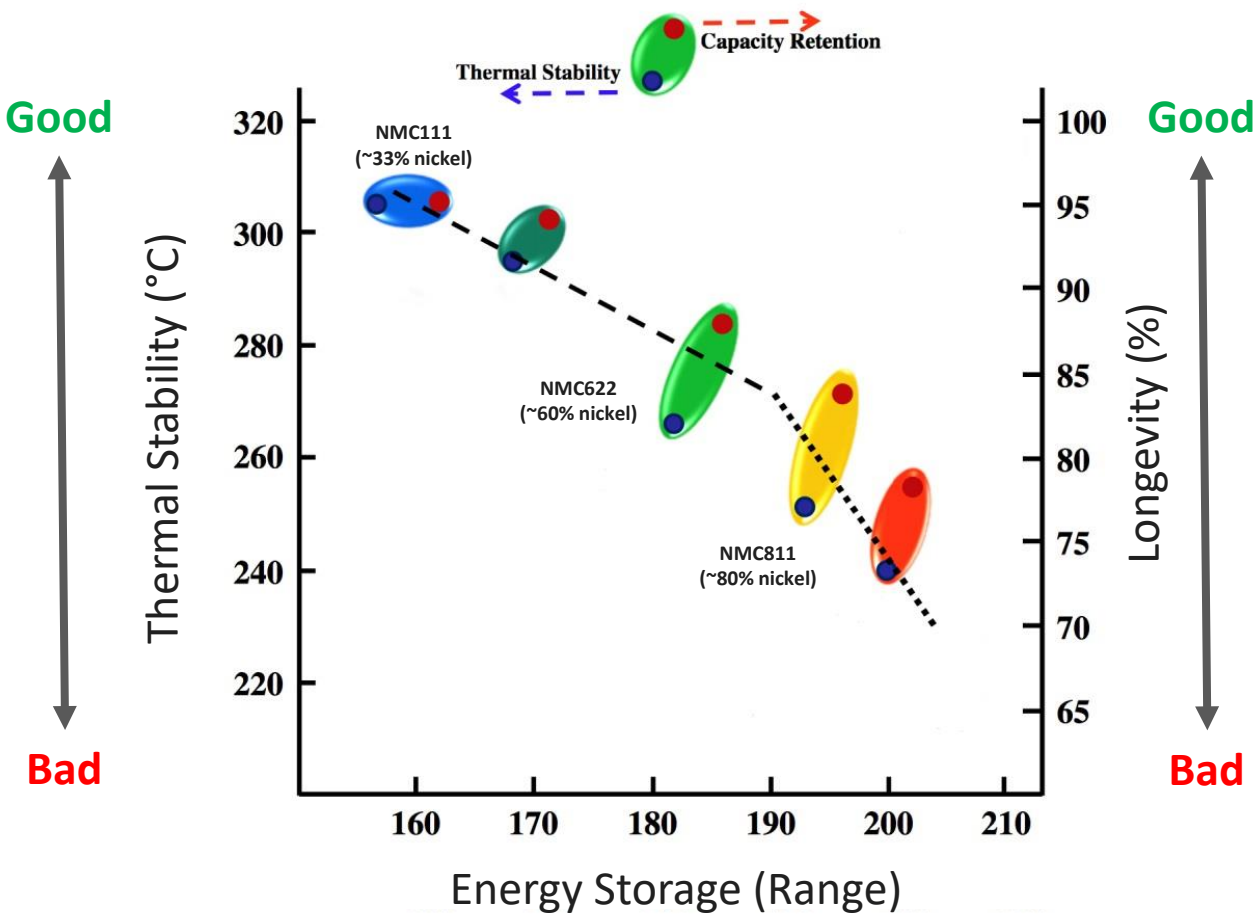


Significant growth of the U.S. Energy Storage Market

Market Demand Increasing and Driving technological Advancement

Li-ion Technology Advancement Tradeoffs⁽¹⁾

- Understanding the tradeoffs

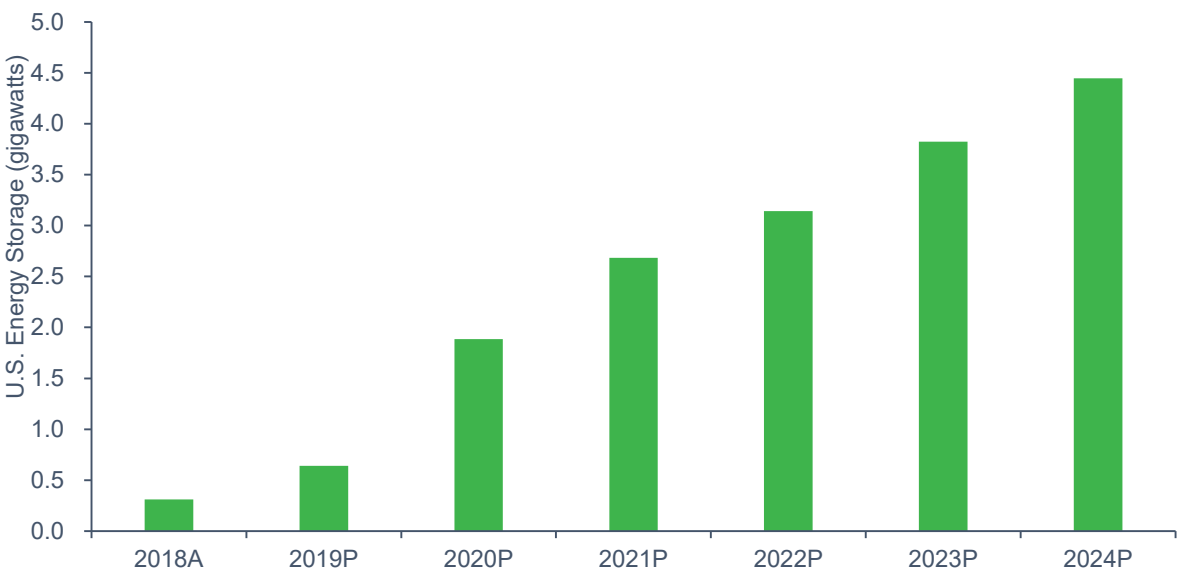


(1) 1 Reprinted (adapted) from Journal of Power Sources, 233, Noh H., Youn, S., Yoon C. and Sun, Y. Comparison of the structural and electrochemical properties of layered Li[NixCoyMnz]O2 (x=1/3,0.5,0.6,0.7,0.8and 0.85) cathode material for lithium-ion batteries. p.121-130, 2013, with permission from Elsevier.

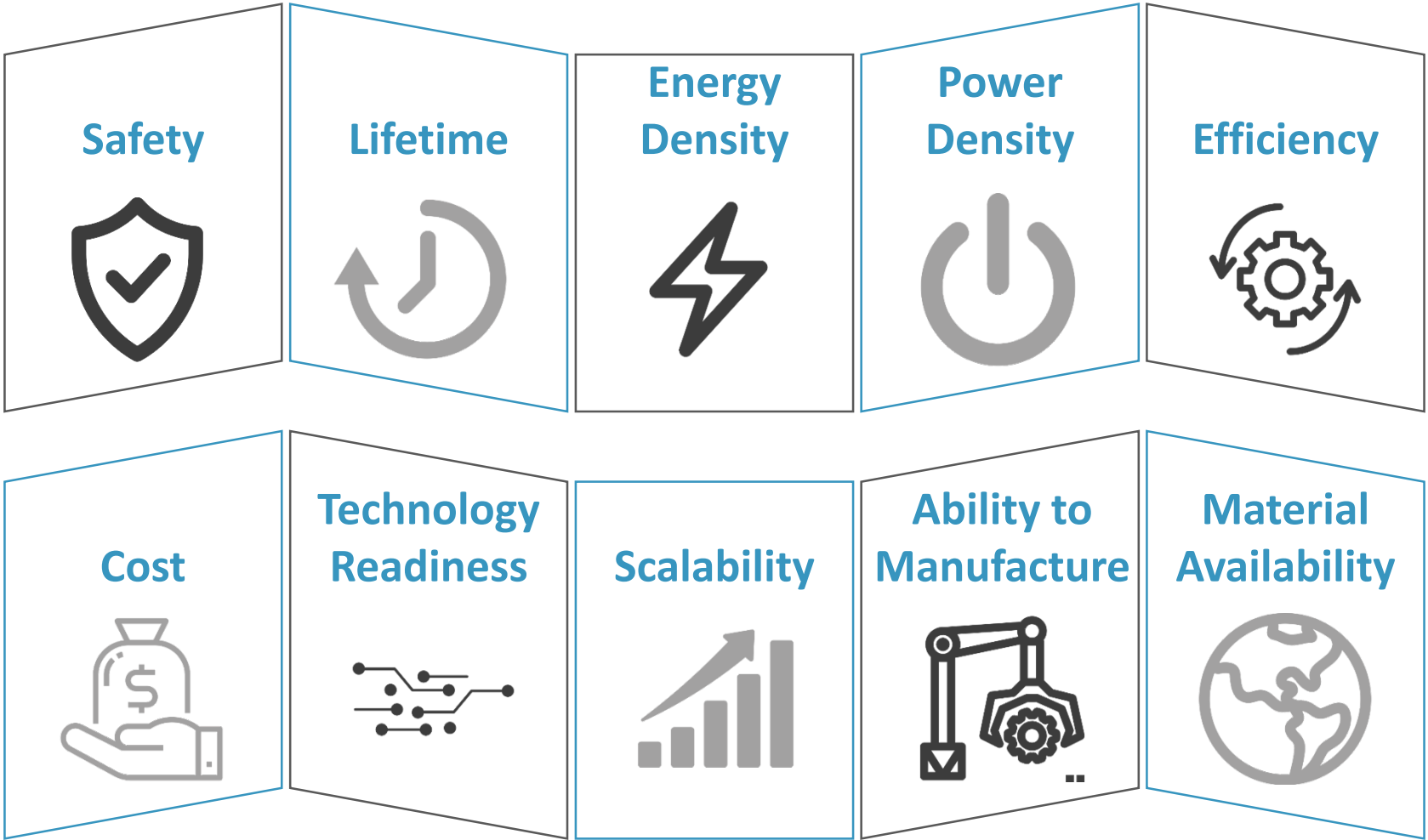
(2) Wood Mackenzie Renewables January 2019

U.S. Energy Storage Market Demand⁽²⁾

- Manage Market Growth with Technology Readiness

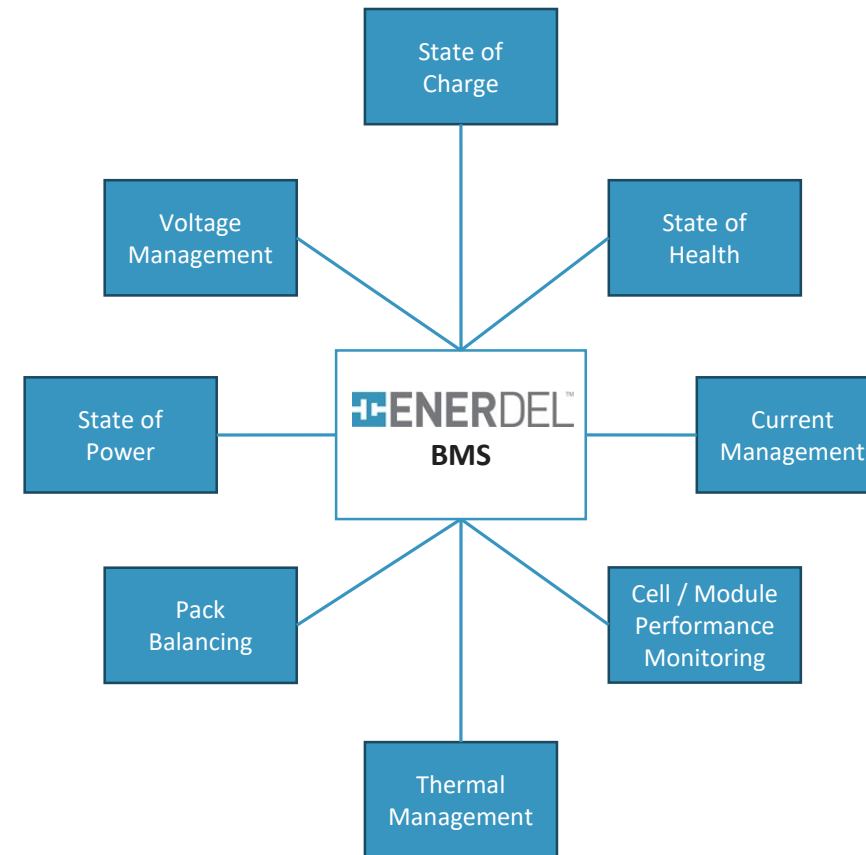


Key Factors to be considered when selecting new technology



EnerDel BMS

- Customizable
- Configurable
- Chemistry agnostic
- Manages system
- Monitors pack performance
- Communicates with fleet management
- Data and performance calculators
- System optimization
- Safety and protection protocols
- Redundant fail safes

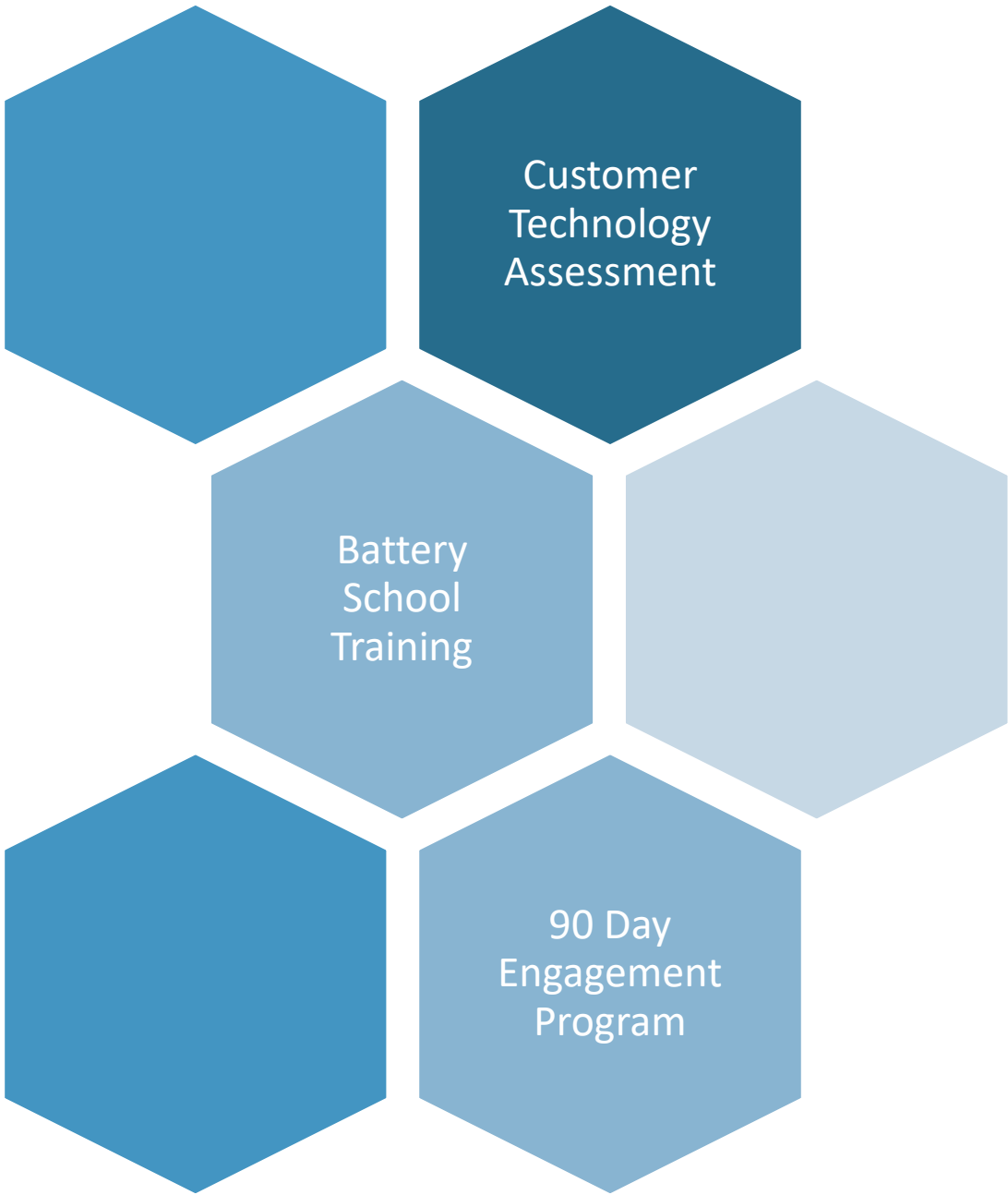


EnerDel's BMS ensures safe, reliable performance for any ESS regardless of cell chemistry



Customer Sustainability Model

- Requires Commitment
- Requires Investment
- Requires Time



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