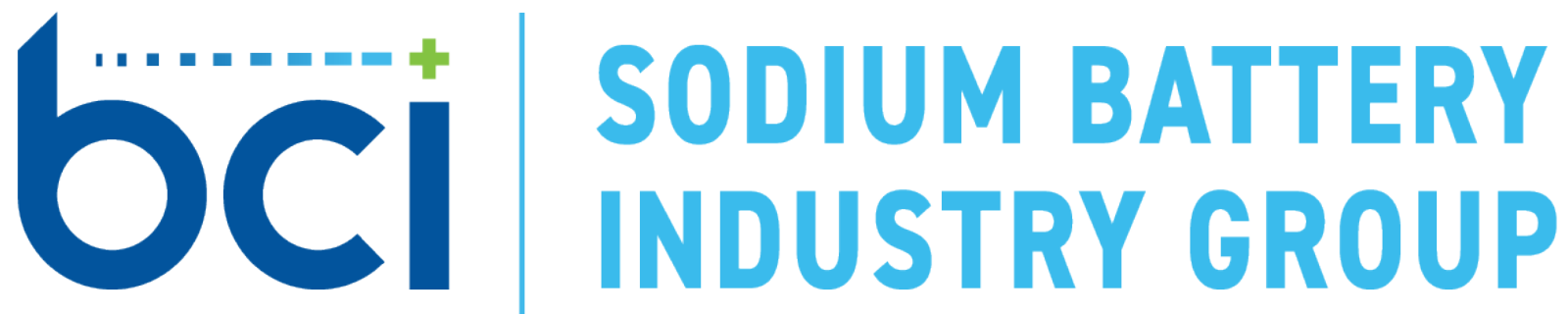




Building the Foundation for a U.S. Sodium-Ion Battery Ecosystem



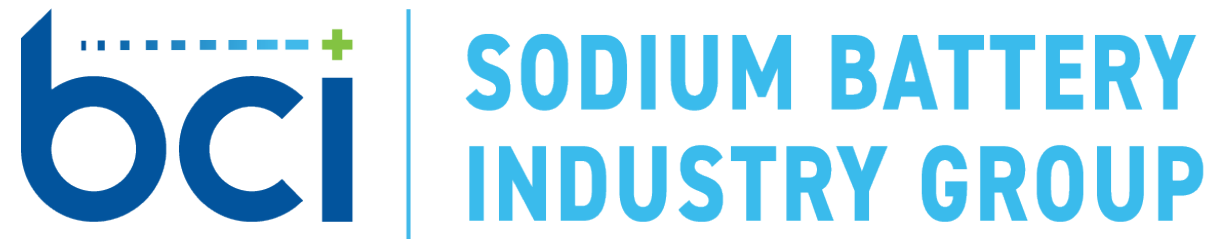
Shawn Peng
Chair of SBIG (BCI)
CEO of QuantumShield Technologies

Why SBIG is Needed

1. There is No Existing Industry Infrastructure in NA
2. Fragmentation is Slowing Commercialization
3. Lack of Standards
4. Policy & Regulatory Gap (High Risk if Not Addressed)
5. Supply Chain Does Not Exist (Yet)
6. R&D is Active — But Not Industrialized
7. Market Education Gap
8. First-Mover Opportunity to Define the Industry
9. Time Window is NOW (Critical Timing)

BCI Sodium Battery Industry Group (SBIG)

-  ONLY formal industry group Newly established (Nov. 2025)
-  First structured platform specifically for sodium ion batteries in the U.S.



□ SBIG Mission



- **Build coordinated ecosystem**
 - Align industry stakeholders across the value chain
 - Enable standards, testing, and qualification frameworks
 - Connect materials, manufacturing, and end-use markets
 - Support policy alignment and market adoption
- **Enable standards**
 - Develop common testing protocols and conditions
 - Align terminology and performance definitions
 - Establish safety and validation frameworks
 - Create standard data reporting formats
- **Accelerate commercialization**
 - Shorten customer qualification cycles
 - Enable pilot projects and real-world deployment
 - Reduce time from lab → market
 - Support bankable data and validation

SBIG Core Functions



SBIG 2-Year Vision



RECOGNIZED STANDARDS

Industry-accepted standards that enable consistency, reliability, and confidence across the value chain.



DOE ALIGNMENT

Strong alignment with DOE priorities and programs to accelerate impact and maximize opportunities.



GROWING DEPLOYMENTS

Increasing real-world deployments that deliver value, drive adoption, and strengthen the domestic supply chain.



STRONGER STANDARDS



STRATEGIC ALIGNMENT



SCALABLE IMPACT

❑ What We Need From Industry



PARTICIPATION



**DATA SHARING
(NON-PROPRIETARY)**



COLLABORATION

Invitation



Join SBIG

Be part of a growing community driving innovation and impact.



Participate in workstreams

Contribute your expertise and help shape solutions that matter.



Collaborate openly

Share ideas, build partnerships, and achieve more together.





Building a safer, more sustainable energy future with sodium-ion battery innovation.

QSalt+



QPack+



QBox+

