



4TH ANNUAL
ENERGY STORAGE GRAND CHALLENGE
SUMMIT

**Investment
Commercialization
& Scale-Up Track**

DOE CHAIRS

Vinod Siberry

NAT LAB CHAIR & CO-CHAIR

Will Chueh, SLAC-Stanford Battery Center

Tracie Owens, Lawrence Livermore National Laboratory



- TRACK FOCUS/OBJECTIVES

The Investment, Commercialization & Scale-Up Track Focus is to facilitate the DOE's ESGC strategy by:

- Promoting public-private partnerships/engagement in commercialization
- Clarifying investment landscape and national lab capabilities that can support commercialization
- Gain DOE support for identifying, maturing, and aligning community support, government contracts, and workforce development toward deployments

Alignment between industry needs and DOE resources can accelerate commercial lift off in ESGC use case areas

Promoting public-private partnerships/engagement in commercialization

- Showcased ESGC and Investment Commercialization, Scale-Up Track activities during **STEER Na-ion Commercialization Forum** at Stanford on April 15 (<https://steer.stanford.edu/events/past>)
 - Presented engagement strategy
 - Feedback supportive from industry and national labs on engagement strategy
 - Next steps: create more forums to showcase DOE lab capabilities, identify best partnership opportunities
- Long Duration Energy Shot Assessments
- Zinc Battery Workshop
- ESGC Summit – **Tech Transfer Highlights** (Presented tonight in break out rooms!)

CHALLENGE: Lack of clarity on investor needs, commercialization pathways, and best role played by DOE

- Address by getting insights from technical reports, industry forums, and national lab capabilities, but there are many.
- No funding to draw insights and clarify path forward for investors

RESOLUTION:

- With existing resources: (1) Clarify DOE capabilities that can catalyze commercialization, (2) Clarify investor landscape at meetings/forums
- Get funding to execute

Reports

- 30 DOE energy storage technologies in ESGC Road Map Report
- Many reports from across DOE and industry
 - Long Duration Energy Shot Assessments
 - Methodology Report
 - Li-ion Battery Technology
 - Lead Acid Battery Technology
 - Flow Battery Technology
 - Thermal Energy
 - Supercapacitors
 - Hydrogen Storage
 - Pathways to commercial lift off
 - Battery white papers

314 National Lab capabilities to summarize for investors

Dozens of Tech Transfer examples to highlight

Actions

- Please check out the National Lab Tech Transfer Capabilities in the break out room
- Reach out to Tracie Owens (owens44@lnl.gov) or Will Chueh (wchueh@stanford.edu) with questions or requests to engage in tech transfer activity.
- Watch for upcoming STEER, and investor forums.