

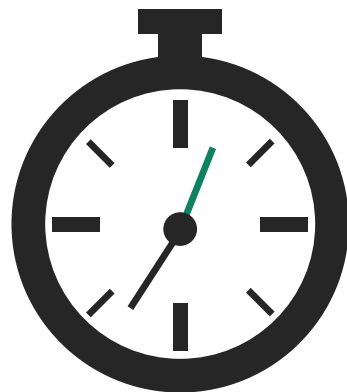
OPERA: Optimizing a potassium-ion electrolyte for revolutionary automotive batteries

Sam Wheeler & Kevin Hurlbutt
Project K Energy, Inc

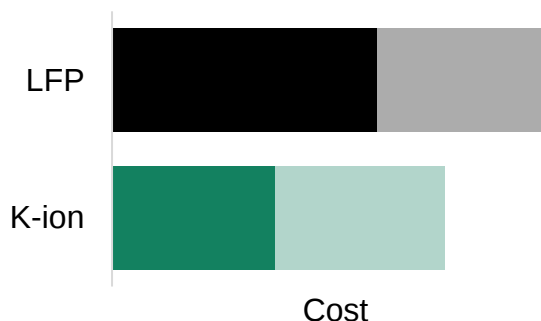
Project K is bringing affordable, fast-charging electric vehicles to new markets of consumers by replacing lithium with abundant potassium in their batteries.

Project K

Project K Energy, Inc, is developing potassium-ion batteries for fast-charging electric vehicles and affordable stationary storage while eliminating the rare and expensive elements lithium, cobalt, nickel, and copper.



Potassium-ion batteries charge fast, opening **new markets of EV consumers** without at-home charging.



Potassium-ion batteries are more affordable, making **BESSes economical for 12-hour storage** and beyond.



Potassium-ion batteries eliminate lithium, cobalt, nickel, and copper for **secure supply chains**.

Technological context

Affordability & supply-chain security

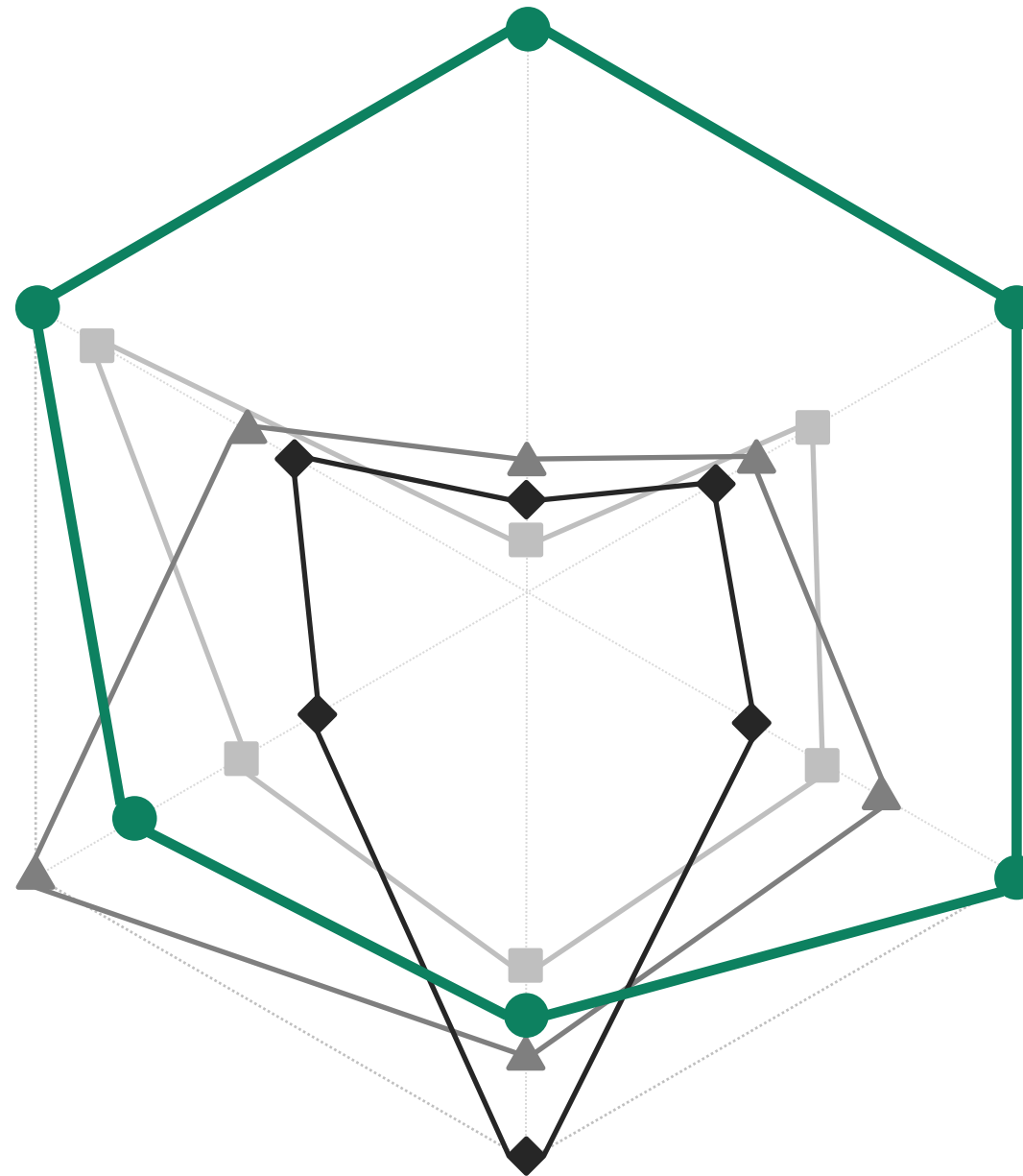
Charging power

Low-temperature performance

Cycle life

Safety

Energy density



Addressable markets

Mobile



Stationary



† MNDA in place

‡ Letter of support received

* Advised by current or former staff



Kevin Hurlbutt, PhD

CEO & cofounder

- first employee at Cuberg
- expert in battery technoeconomics



Sam Wheeler, PhD

CTO & cofounder

- world-leader in PBA electrochemistry
- expert in fast-charging graphite
- >1,220 citations



Richard Wang, PhD

Advisor



Mei Cai, PhD

Advisor



A Siemens and AES Company



Jessica Andrews, PhD

Battery scientist



Katherine Martins

Battery engineer



Darby Hickson, PhD

Battery scientist



Chao Shen, PhD

Senior battery engineer

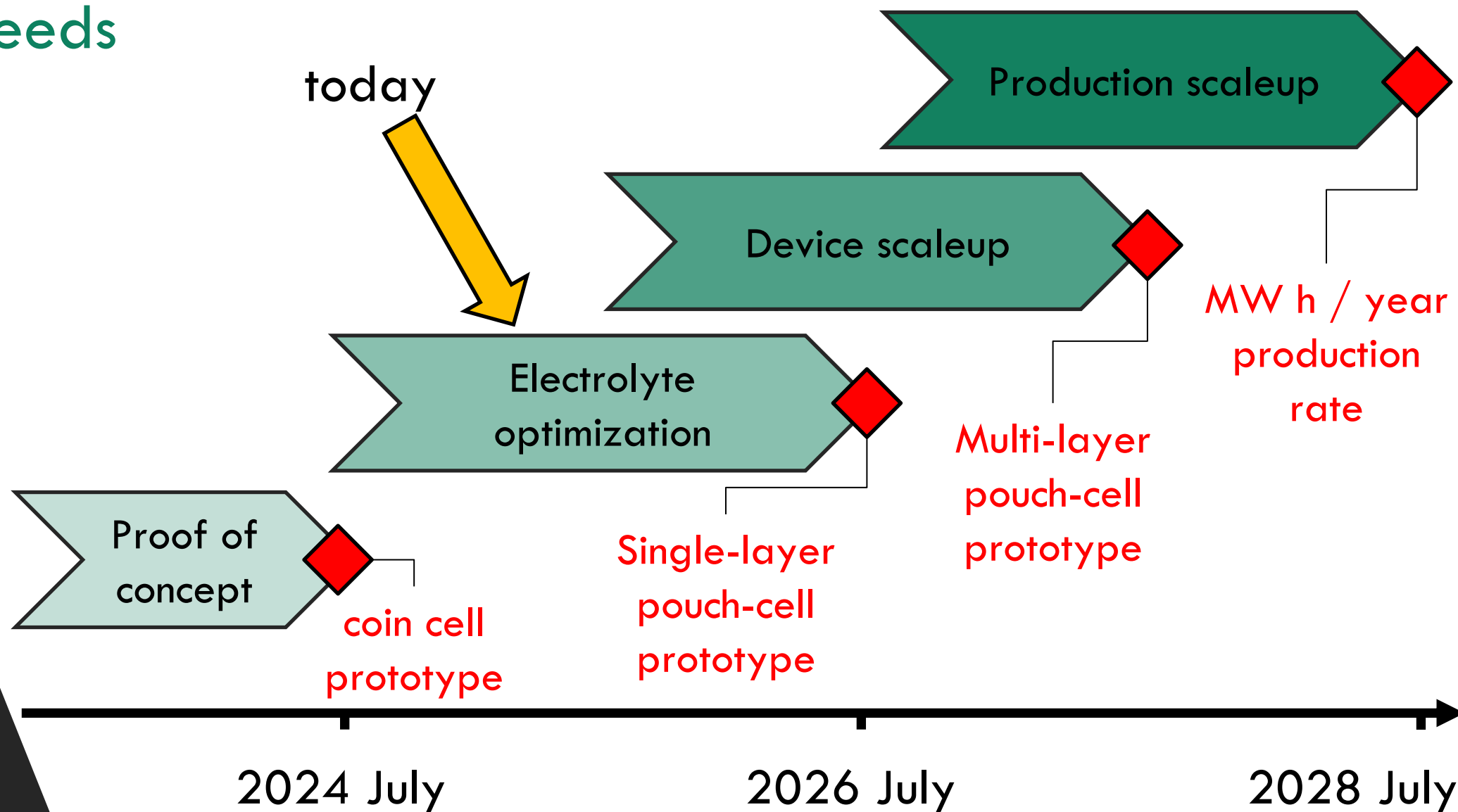


Susan Schofer, PhD

Advisor



Roadmap & needs



Sam Wheeler, PhD
CTO & Co-founder
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Project
K