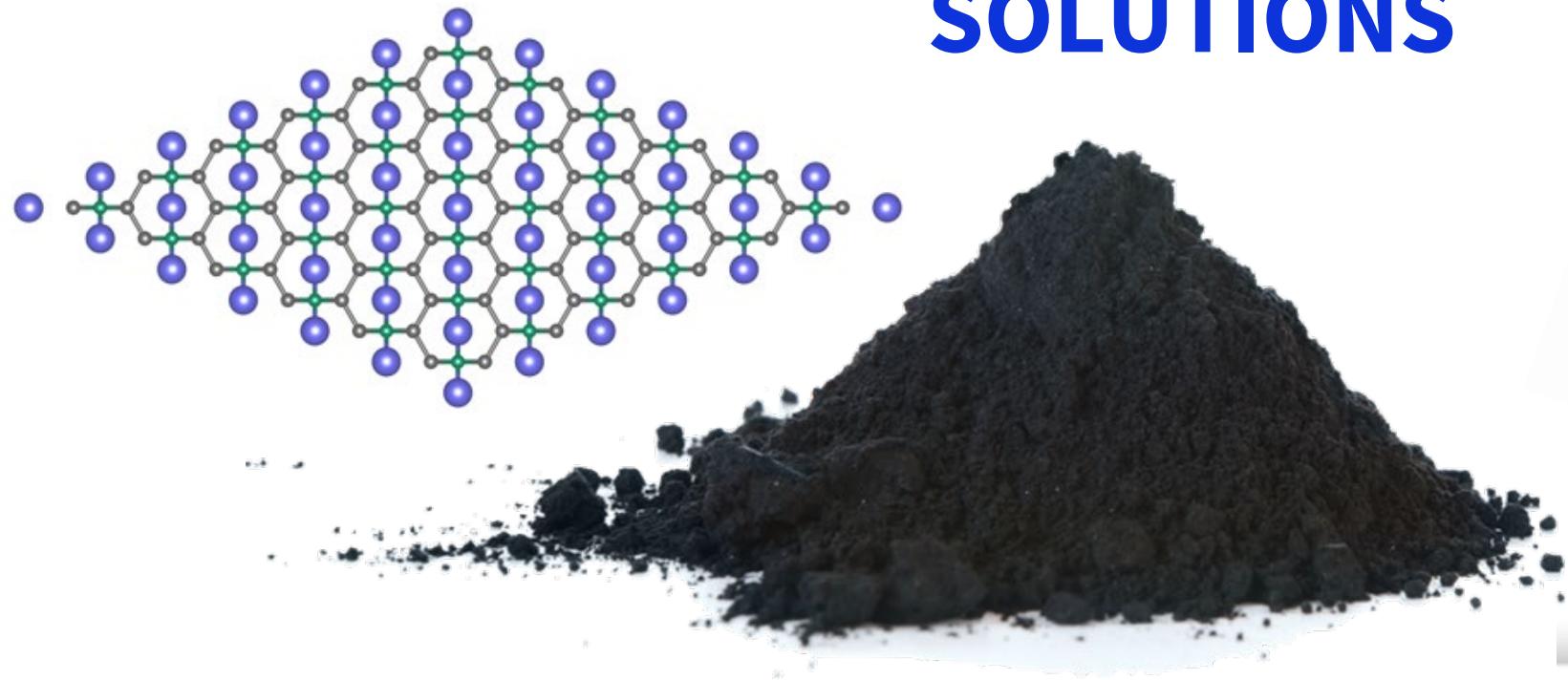




REVOLUTIONARY MATERIALS FOR EVOLUTIONARY SOLUTIONS

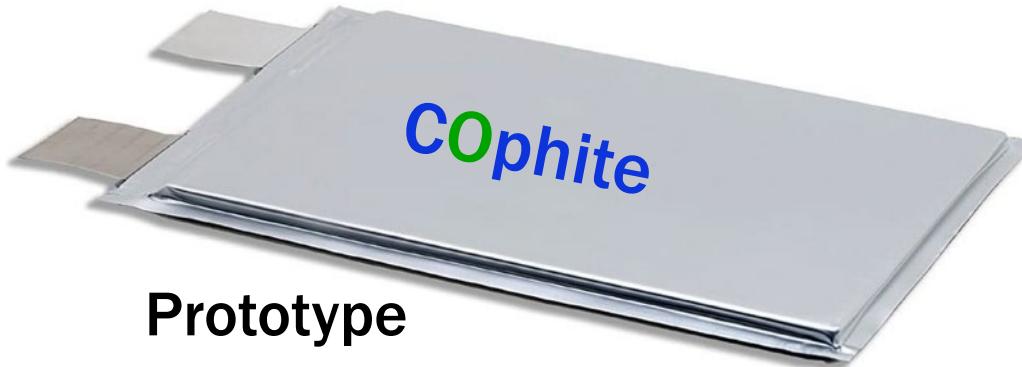


Carol Hirschmugl, PhD

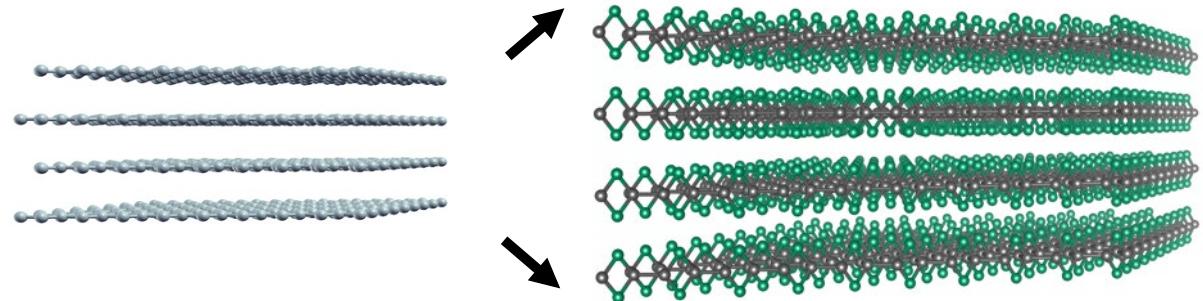
dr.carol.h@conovateinc.com
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www.COnovateInc.com

LARGER SPACING AND OXYGEN ENABLE BETTER PERFORMANCE



Prototype



Graphene Layers
in Graphite
372 mAh/g (LiC_6)

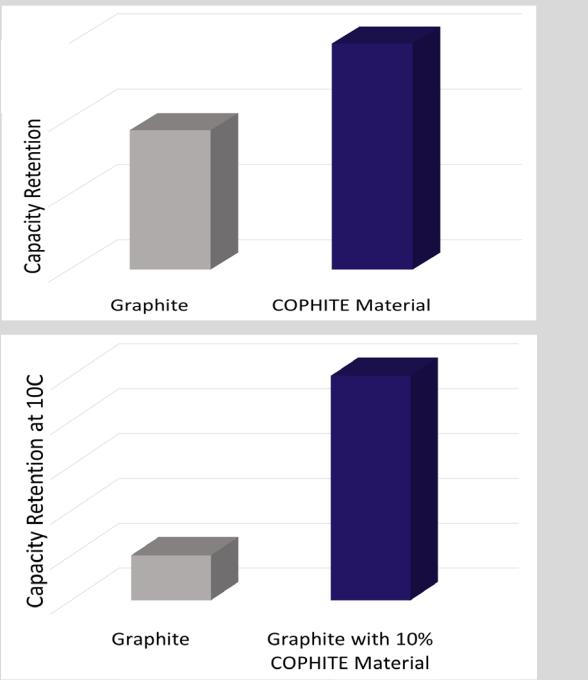
Graphene Monoxide Layers
in COphite Material

Graphene Monoxide:
957 mAh/g ($\text{Li}_2\text{C}_2\text{O}_2$)*

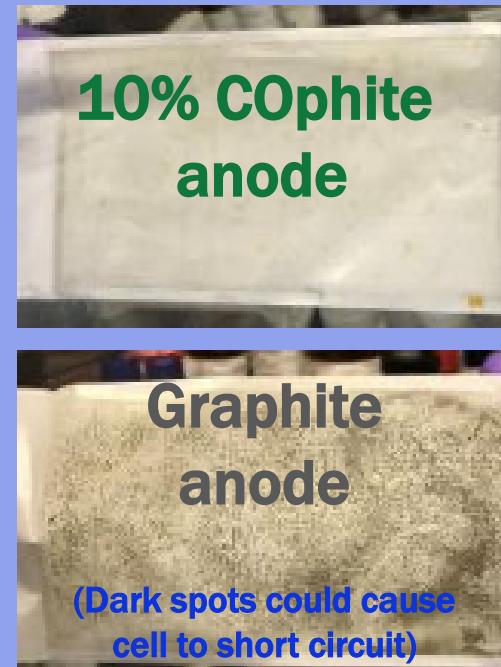
Large spacing between the carbon layers makes it easier for the lithium to move in, and oxygen sites for binding lithium

PATENTED COPHITE™ MATERIAL OFFERS SIGNIFICANTLY BETTER BATTERY PERFORMANCE, SAFETY AND SUSTAINABILITY

Higher Capacity (2x)
Faster Charging (6x)



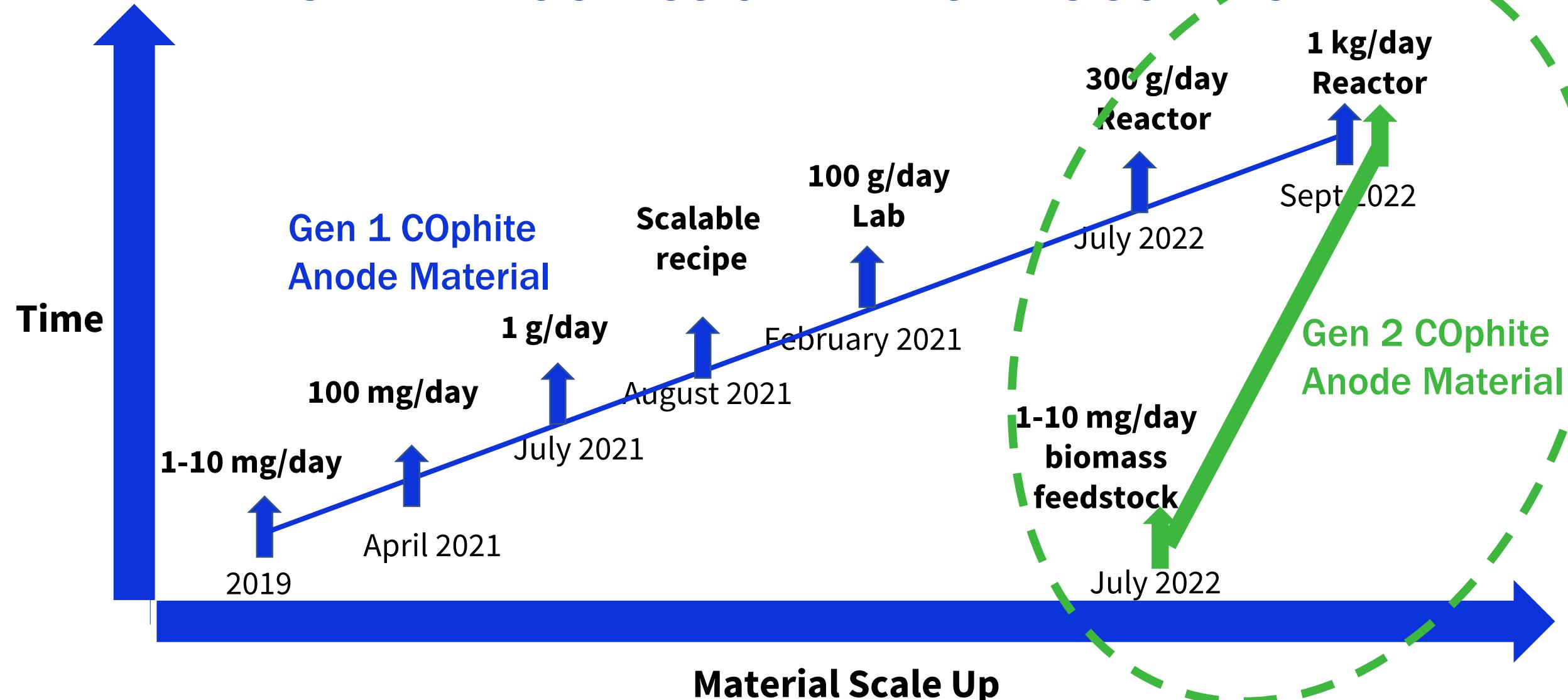
Better Safety after Low Temperature Operation



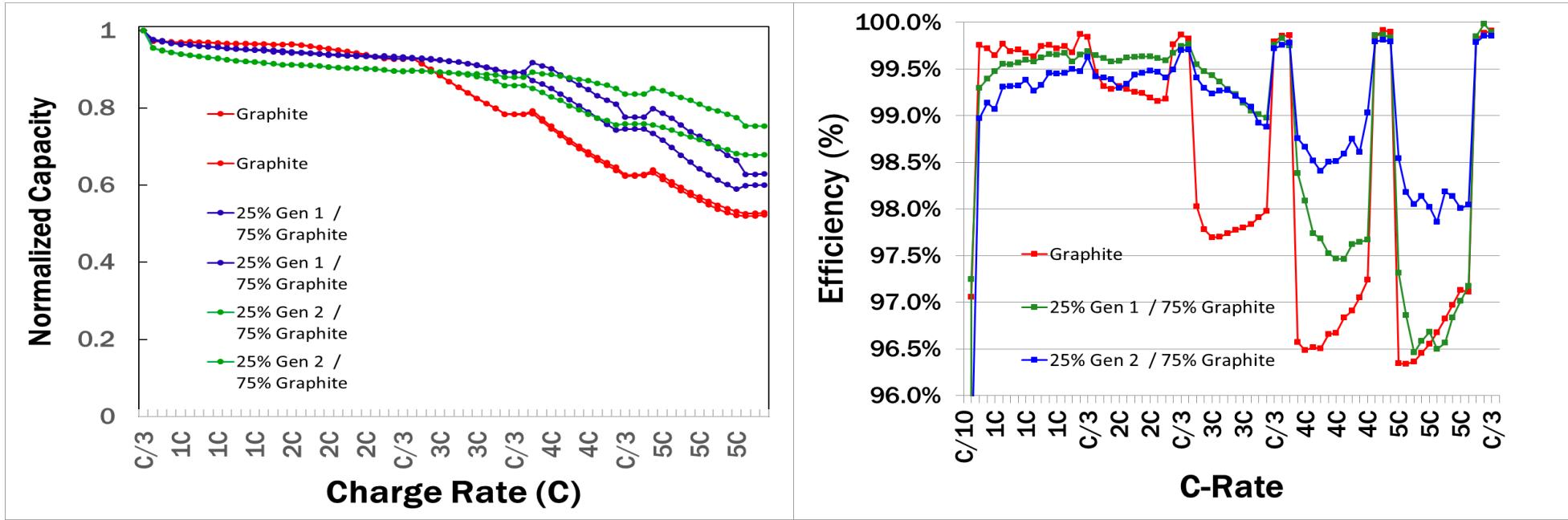
Can be derived from inexpensive, natural sources



GREAT PROGRESS ON DE-RISKING SCALE UP

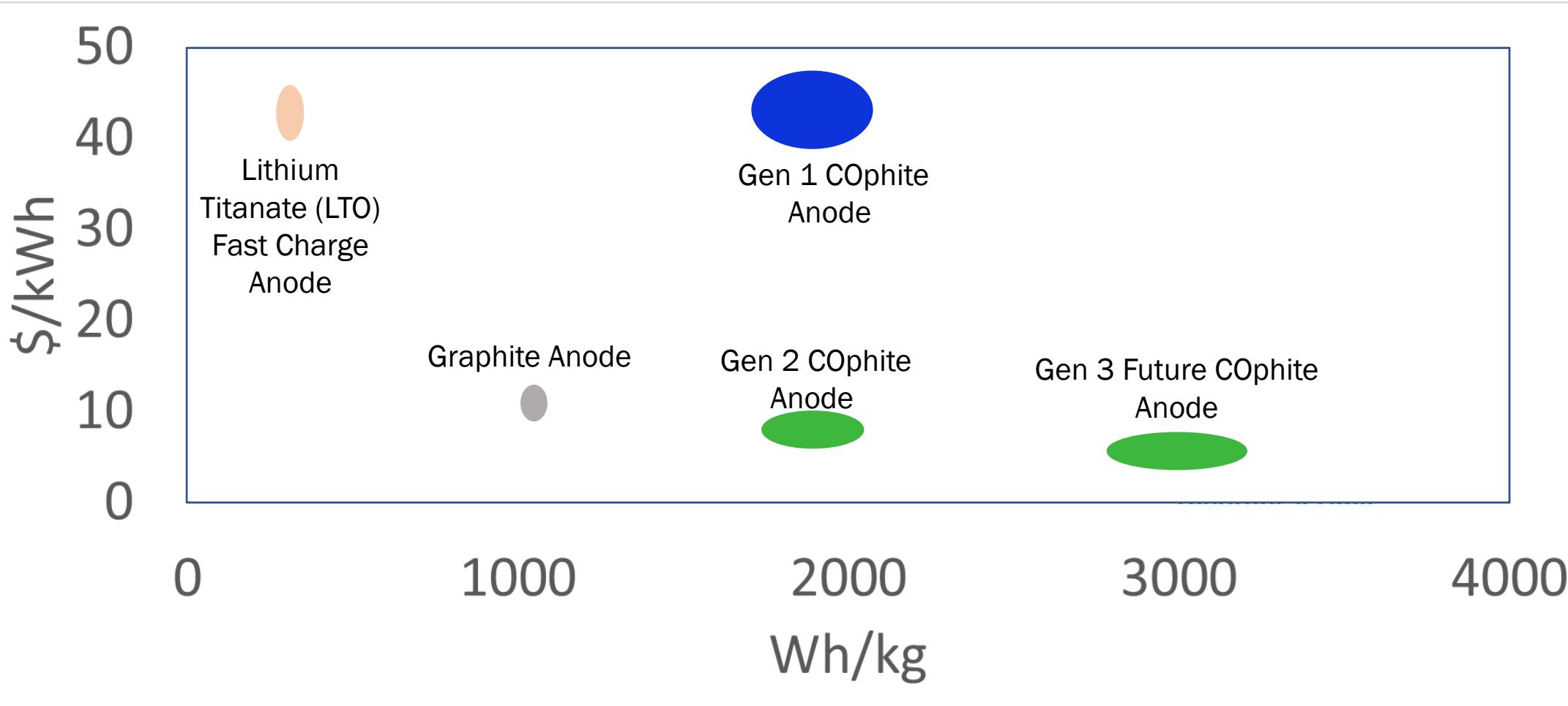


SINGLE LAYER POUCH CELL PERFORMANCE

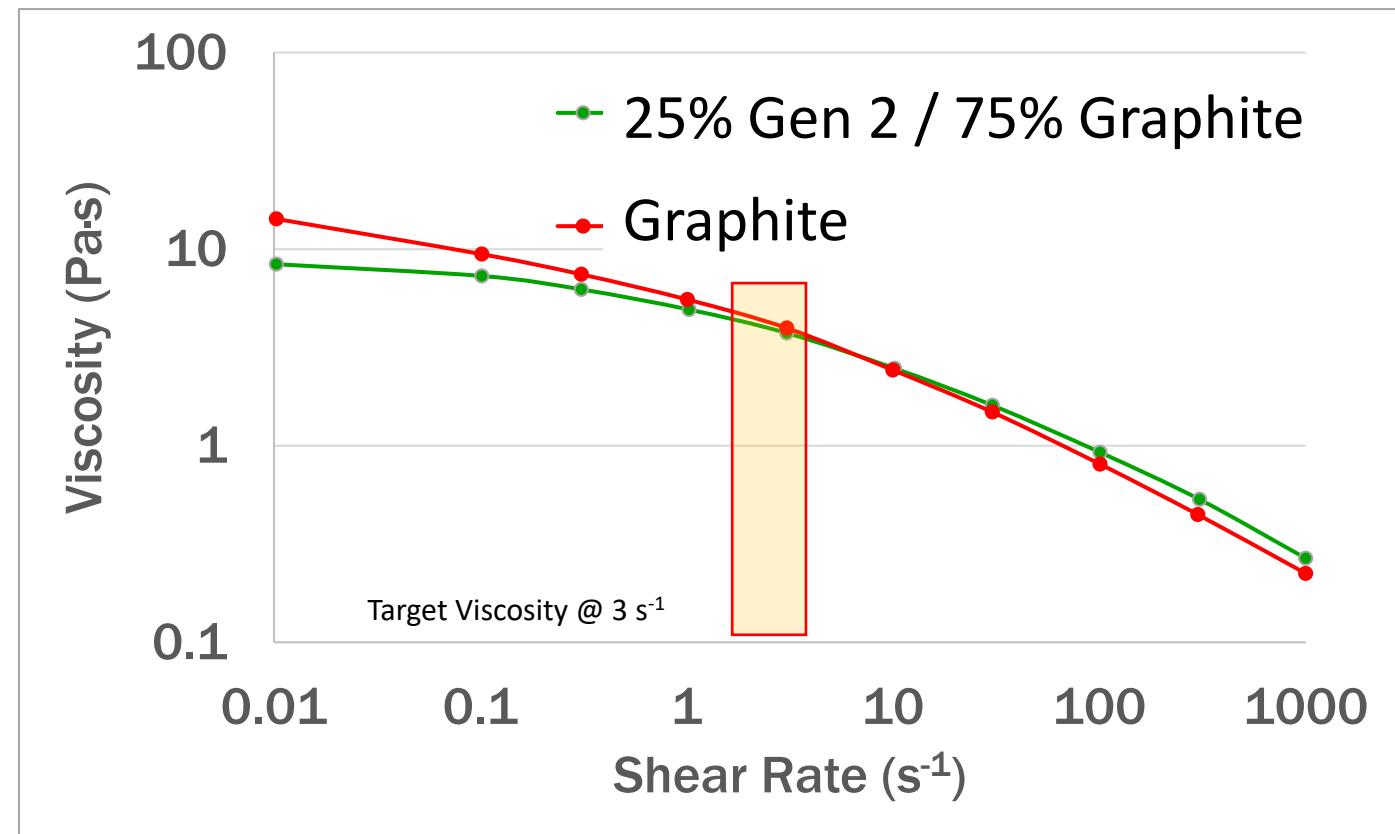


Remaining challenge: Leveraging \$1M NSF SBIR Phase II
to address 1st cycle irreversible loss

COPHITE ANODES ARE COST COMPETITIVE WITH INCUMBENT GRAPHITE



COPHITE MATERIAL WORKABILITY



COphite material has desirable viscosity

SUMMARY

- Patented COphite material has demonstrated good capacity, fast charging, workability and safety
- COphite is compatible with incumbent materials (graphite) and anode processing with existing infrastructure
- We are developing and scaling a cost effective, domestic solution into the anode materials marketplace

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