NETL SUPPORTS R&D OF AWARD-WINNING TECHNOLOGY TO DECREASE LITHIUM-ION BATTERY COSTS

This technology represents a domestic, abundant and inexpensive alternative to graphite.



Semplastics received Voltage Award from the Battery Innovation Center.

NETL supported Semplastics R&D of polymer-derived ceramic composite lithium-ion battery anodes that utilize coal as an alternative to graphite.

• The technology received the Voltage Award from the Battery Innovation Center that recognizes an emerging company and/or technology with the highest potential to make a difference in



RESEARCH PRIORITY

batteries and electrification.

- The technology addresses a growing demand for lithium-ion anode materials used in battery electric vehicles (BEVs), energy storage, and other products.
- If all BEVs utilized this technology, the total global annual BEV production could be addressed with less carbon than two months' operation of a single coal-fired power plant.
- The innovative technology also promotes remediation of existing coal waste sites throughout the U.S.



PERFORMER



NETL ANNUAL ACCOMPLISHMENTS 2023



Fossil Energy and Carbon Management

