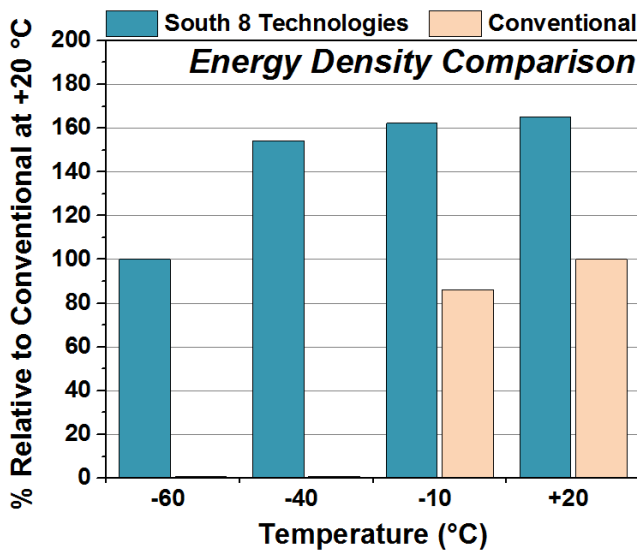


**SECONDARY LITHIUM BATTERIES** are integrated into our society in everything from communications to electric vehicles. Their rechargeability, high energy density, and good cycle life allow for their use in applications requiring continuous operation over many hours or days in moderate environments. However, these devices perform poorly at low temperatures and suffer from significant thermal runaway issues.

**South 8 Technologies, Inc.** has developed a breakthrough Secondary Lithium Battery technology which differs sharply from conventional chemistries. Our novel, patented, non-toxic electrolyte allows for substantial improvement in energy, power, and world-record performance at low temperatures while leveraging conventional low-cost materials and substantially mitigating thermal runaway safety issues which plague batteries today.

Device temperature performance has been third-party validated by the National Renewable Energy Laboratory



## APPLICATIONS

- Hybrid and Electric Vehicles
- Engine Start-Stop, Cold-Start
- Aerospace
- Military
- High-atmosphere Drones
- Cold-weather Stationary Grid Storage



18650-Type Form Factor, Actual Size Shown

Technology Factor	South 8 Technologies	State-of-the-Art	Our Advantage
Energy Density	400 Wh/kg	250 Wh/kg	60% increased energy for longer run time
Low-Temperature Operation	Charge: -60 °C Discharge: -60 °C	Charge: 0 °C Discharge: -20 °C	New markets in aerospace, high atmosphere, military, cold weather grid storage
Danger of Thermal Runaway	Greatly Mitigated	Persistent Issue	Substantially safer battery, saving lives and cost