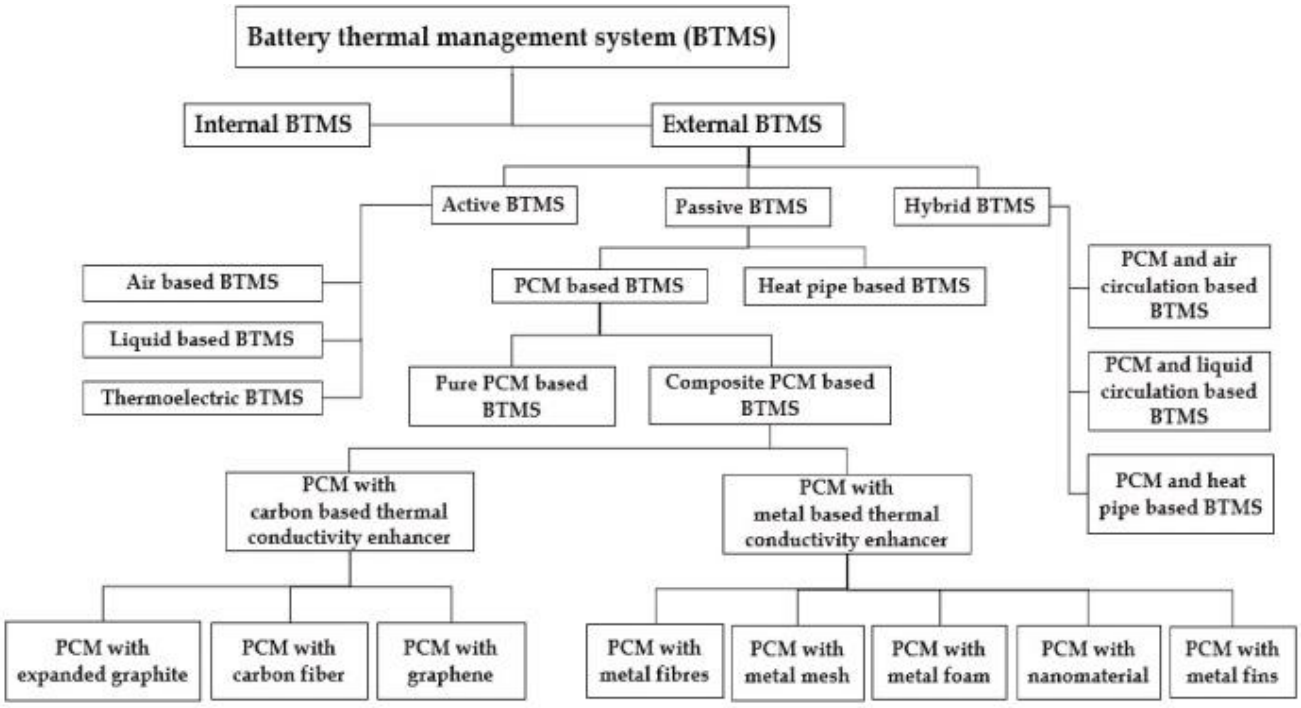
BTMS Report

Problem statement

- Thermal management remains a significant challenge due to the dynamic nature of battery behavior and the varying environmental conditions
- These challenges include temperature control, heat dissipation, and battery health monitoring.
- there is a need for a comprehensive thermal management system that can optimize the performance of the battery
- The system must be capable of regulating the temperature of Li-ion batteries within an optimal range to prevent overheating, thermal runaway
- The system should be scalable, adaptable, and flexible enough to accommodate various battery chemistries, sizes, and configurations in different applications and environments.

Need of your Project

- Battery thermal management systems are needed to ensure optimal performance and safety of batteries, especially in electric vehicles.
- The temperature of the batteries to prevent damage and improve efficiency
- battery thermal management systems play a critical role in maximizing the performance, safety, and lifespan of batteries, particularly in high-demand applications like electric vehicles.



Innovation solution for the problem statement

- To develop a battery and battery cooling system using a heat pipe System
- To optimize the heat in any situation
- By using of the cooling system reduces the heat in the battery through the heat pipe technology

Startups in our area

1. Chroma ATE Inc.: A startup that provides battery simulation and testing services, including thermal management systems for batteries. Los Angeles, California.

2. 24M Technologies: A startup that develops low-cost, high-performance lithium-ion batteries with advanced thermal management systems. Cambridge U.S.

3. MAHLE GmbH: A German-based startup that provides innovative thermal management solutions for electric vehicle batteries. Stuttgart, Germany.

4. Nuvation Energy: A startup that offers advanced battery management systems with thermal management capabilities for energy storage applications. Sunnyvale, United States.

5. Viridity Energy Solutions: A startup that specializes in grid-scale energy storage systems with advanced thermal management for batteries. Oregon, US.

6. Cadenza Innovation: A startup that provides lithium-ion battery systems with proprietary thermal management technology for various applications. Danbury, Connecticut.

8. Enevate Corporation: A startup that develops advanced energy storage systems with fast charging capabilities and thermal management technology. Irvine, California, USA.

9. Eberspächer: A German-based startup that provides heating and cooling solutions for battery thermal management systems in electric vehicles.

10. Pyrotek: A startup that offers innovative thermal management solutions for energy storage systems, including battery management for electric vehicles.

BMS for utilizing multiple types of lithium batteries to develop battery packs
https://tracxn.com/d/companies/brill-power/__MxmDBxxvG3gPAxfdy31hA7SUqOxWFfB-PvbI7QNbbCM

Provider of energy management solutions for commercial and industrial solutions
https://tracxn.com/d/companies/verlume/__zrQZjuZlPWRibApTw8FyNdVg39Vvu0PGXmaQi47OMQI

Designs smart energy storage systems
https://tracxn.com/d/companies/dukosi/__I56ODJghF7tpfZt6XMjOGXGuQkHe61sCLmaelcd2ENk

Developer of safety technology for lithium-based batteries
https://tracxn.com/d/companies/amionx/__0ehDjDyhQrZy026o079o99YTVO3PgMPVlQrKEimYxcg