Phase Change Energy Storage
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**Impact**
Applications include: backup cooling, absorption of thermal transients, quick heating (for startups), defrosting, temperature control, cooling of portable and other devices with low duty cycle,…

**Objective**
Map the capabilities of phase change energy storage for thermal management of transient heat dissipation.

**Approach**
- Develop simple analytical tools and comprehensive numerical models to determine the performance of different PCMs in energy storage systems in different configurations, with and without thermal conductivity enhancers
- Experimentally investigate the performance of PCMs in representative applications

**Selected Publications**