

Problem Statements for Shaastra – 2015

Problem Statement 3: Next generation thermal management solutions for high power density electrical system.

Thermal management for high power density of electrical system poses a significant challenge from product performance and reliability. Conventional cooling mechanisms are unable to handle thermal management requirements. There is a need to address this challenge through next generation cooling technologies.

In particular high power density electrical systems are finding application in next generation More Electrical Aircraft, circuit breaker and transformers. The proposal will be evaluated on the bases of

1. Comprehensive study
2. Proof of concepts - analytical
3. Novelty