

# Technical Assistance Document

## Infineon Technologies Americas Corp.

**Combining new SiC MOSFETS and packaging technology for a cost reduced and high efficiency 1500V solar power converter**

### **Set phase**

Infineon will take their concept 125 kW power converter to the prototype phase. This will require the following technical tasks:

- Double pulse and load testing.
- Filter design.
- Simulation of abnormal grid conditions such as low voltage ride through.
- Thermal analysis of the power semiconductors and system.
- Software design for optimal ANPC switching patterns.
- Design for assembly and cost optimization.

At present Infineon will partner with Sandia national labs.