



## **Problems with using wind and load correction in electrical thermography**

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In electrical thermography, temperature is used to determine the seriousness of a problem, and to establish repair priorities. It is vital that accurate temperatures are measured. Ideally, measurements should be taken under normal electrical load conditions, and with little or no wind.

When measurements are made under a load that is less than normal, thermographers use projections to estimate what the load will be under a new load. Often, they also work in a wind and apply a correction factor to project what the temperature will be should the wind stop.

This paper explores severity issues of the frequently used wind and load corrections for calculating projected temperatures under changing conditions.

### **Keywords**

Correction factor, electrical installation, failure criteria, load, normal conditions, qualitative thermography, quantitative thermography, surface temperature, wind, wind cooling