



## Transmission Line Monitoring System

### Combatting the Energy Crisis

*"We can create a more sustainable, cleaner and safer world by making wiser energy choices."*

*~ Robert Alan*

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#### Application:

A transmission line is a device designed to guide electrical energy from one point to another. How well this is done depends on the special physical and electrical characteristics (impedance and resistance) of the transmission line. Accurate real-time monitoring of these operating parameters is critical. A non-contact sensor system has been designed for simultaneous determination, monitoring and communication of conductor clearance, phase current, ampacity and maximum conductor temperature.

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#### Key factors in selecting an Octagon CORE System:

- High reliability, field proven
- Environmentally sealed enclosure
- Accuracy not adversely affected by rain, wind, fog, smoke, hail, snow or ice

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#### Solution:

Octagon's RMB-series system was chosen for its ability to provide secure wireless communication of all field data. All real-time complex calculations are remote and autonomous. This ground-based system was designed to be far less expensive than existing monitoring and rating products. The cost savings from these systems will far surpass the new hardware costs.