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Efficiency monitoring as a strategy for cost effective maintenance of induction motors for minimizing carbon emission and energy consumption

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**Highlights**

- Fault leads to reduction in motor's efficiency which increases its energy consumption and CO<sub>2</sub> emission.
- As the fault propagates, these losses increase further and are generally ignored by the industries.
- Efficiency monitoring based CBM has been proposed as a part of motor maintenance strategy.
- Proposed strategy considers the faulty motor running loss for planning maintenance action.

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