

## ENERGY CONSERVATION TIPS FOR ELECTRICAL DISTRIBUTION SYSTEM

TOTAL  
ENERGY  
CONSULTANT

- ✓ Properly size to the load for optimum efficiency. (High efficiency motors offer of 4 - 5% higher efficiency than standard motors)
- ✓ Use energy-efficient motors where economical.
- ✓ Use synchronous motors to improve power factor.
- ✓ Check alignment.
- ✓ Provide proper ventilation (For every 10 ° C increase in motor operating temperature over recommended peak, the motor life is estimated to be halved)
- ✓ Check for under-voltage and over-voltage conditions.
- ✓ Balance the three-phase power supply. (An imbalanced voltage can reduce 3 - 5% in motor input power)
- ✓ Demand efficiency restoration after motor rewinding. (If rewinding is not done properly, the efficiency can be reduced by 5 - 8%)

