Case Study: **Power & Harmonic Audit**

SENERGY Consultants (P) Ltd

**Background:**

While conducting energy & power quality audit for the printing industry; the total harmonic distortion in current was wave form was observed to be abnormally high.

![Graph showing harmonic distortion](image)

**Scenario:**

- The failure rate of electronic components was quite high with 4 to 6 failures in a month.
- This not only added to the costs; but adversely affected the productivity and delivery schedule.
- The harmonic level was observed to be high due to failures of chokes provided by the machine manufacturer.

**Corrective Measures:**

The above concerns and issues were addressed by taking the following measures.

- The damaged choke was replaced by the machine manufacturer.
- The total harmonic distortion level was brought down to 12 to 13%.

**Outcome:**

- The failure rate of electronic components came down by over 90%.