

Excellence in Energy Management...

CASE STUDIES

A case study of an Ice Cream manufacturing industry

Introduction:

This ice cream unit a part of India’s leading FMCG company, situated in Nashik is involved in the preparation of ice cream packed as candies, cups and in bulk. Ice cream storage in freezers is a power intensive process. The refrigeration & cold storage alone consumes up to 80% of the plants load. The capacity of ice cream manufactured is about 8.0 million litres / year.

Positive impact of eLAN[®] on Energy Management Practices:

With increasing power costs, the Unit was determined to optimise their electrical usage. An earlier method of collecting electrical data gave inaccurate reading and was prone to human errors. To overcome such inconsistencies the company switched to eLAN[®] - Energy Management Networks, which provides them with accurate online real time data centrally.

With the many features of eLAN[®], the company was able to plan load distribution, manage and control kVA Demand within the sanctioned limits (as set by Supply Authority). They installed an Automatic Controller of screw compressors used in cold storage refrigeration plant. Improved efficiency resulted in good energy savings. The Network helped them to identify the savings opportunity and the plant inefficiencies.

These meters are connected to a dedicated PC, which has software that generates reports on trends, mimics, single line diagram etc. for analysis purposes. eLAN[®] system helped them to identify the losses.

Pay back:

Investment	US \$ 8437.50
Annual Savings	US \$ 12500.00
Payback period:	9 months

- Automobiles
- Beverages
- Cement
- Chemicals
- Engineering
- Fertilizers
- **FMCG**
- Glass
- Hotels
- Hospitals
- IT
- Paints
- Paper / Pulp
- Petrochemicals
- Pharmaceuticals
- Textiles
- Shoes
- Steel
- Sugar
- Wind Mills
- Shopping Malls

Conzerv Systems Pvt Ltd
(formerly Enercon Systems Pvt Ltd)