

## Wabco-TVS (India) Limited, Chennai –58

### Unit Profile:

Established in the year 1962 as a joint venture with Clayton Dewandre, UK (Now WABCO Vehicle Control System). This plant is located in Ambattur, Chennai. WTIL manufacture Air and Air actuation systems for automotive and non-automotive applications and elements thereof.

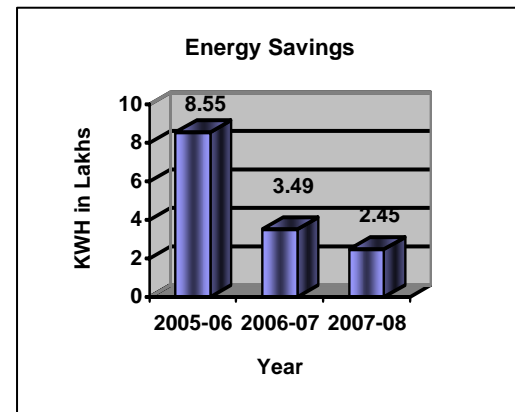
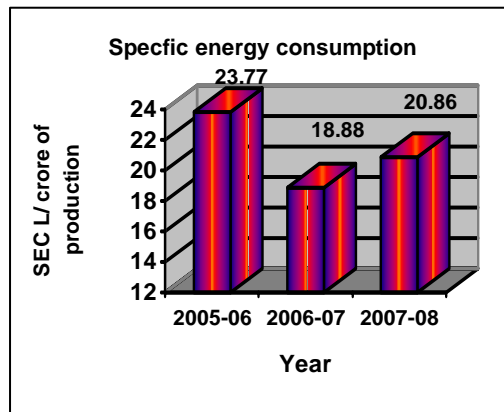
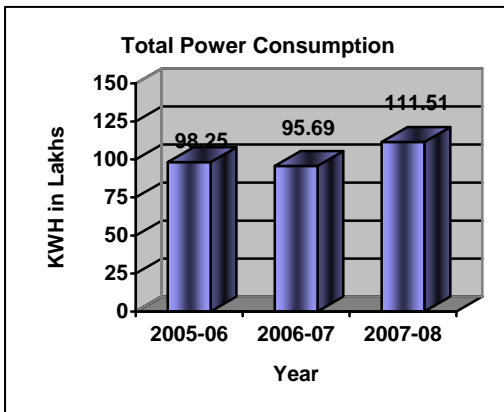


### Salient features of the Plant

- Leader in Air Brake systems for commercial vehicles in India
- More than 300 sales and service outlets in the country
- TS 16949 & ISO 14001 certified
- Sales – Rs 600 crores / Year
- First Indian company to be awarded the coveted “Deming Prize” in 1998
- Only Indian Company and Second outside Japan to Win “Japan Quality Medal” in 2002
- ACMA Award for “Technology” in 2002 and “ Manufacturing Excellence” in 2003
- Tata Cummins Certificate for Value Engineering and Cost reduction in 2003-04
- Frost & Sullivan Overall Gold award for Manufacturing Excellence in 2005
- Got the TPM Excellence Award from JIPM in the year 2007.



### Energy Details



### Environmental Policy (Includes Energy Conservation)

We shall continuously improve our Environmental performance by:

- Prevention of pollution including conserving key resources such as Aluminum, **Energy**, water, compressed air and lubricants, minimizing waste generation and maximizing recycle and reuse.
- Adopting measures to control generation of effluents, waste, noise and emission and remaining, in compliance with applicable legislations and other requirements.
- Improving work environment through better housekeeping and safe work practice
- Supporting our supplier and contractors to become environmentally responsible.
- Providing appropriate training and achieving the Environmental Objectives through active Involvement of all employees.

13. Organisational Setup for Energy Conservation

a) Does your organization have an Energy conservation cell?

Yes

b) If yes, who heads the EC Cell? Whether energy conservation is his exclusive or additional responsibility? To whom he is reporting?

General Manager (Maintenance)

Additional responsibility, He is reporting to the President.

c) Give salient features of EC Cell's constitution, functions, amount of finances available, achievements, future plans and strategy followed to implement energy conservation/ efficiency programmes and policies, etc.

EC cell members meet once in a month and discuss about the energy conservation projects identified and the finances needed to implement the projects.

The EC projects implemented and the results achieved are presented to the management

The EC cell members conduct energy audit once in 6 months and identify projects.

Every year Rs 10 Lakhs is budgeted for implementing energy conservation projects.

Details of implemented projects and achieved savings are compiled and published in the annual report.

d) Does your unit have energy accounting and monitoring procedures and system in place? Which department is responsible to maintain such records - EC cell or any other?

We have "Energy Management System" with digital Multi data meters in all the feeders. The EMS runs in a centralized server PC. All the multi data meters are networked to the EMS thro' RS485 communication protocol. Data from the meters are acquired and logged. Automatic reports on energy consumption of individual feeders are sent to all the sectional heads everyday.

Plant maintenance Department is responsible for monitoring and accounting.

During Monthly Performance review the power cost details are analysed and actions are planned.

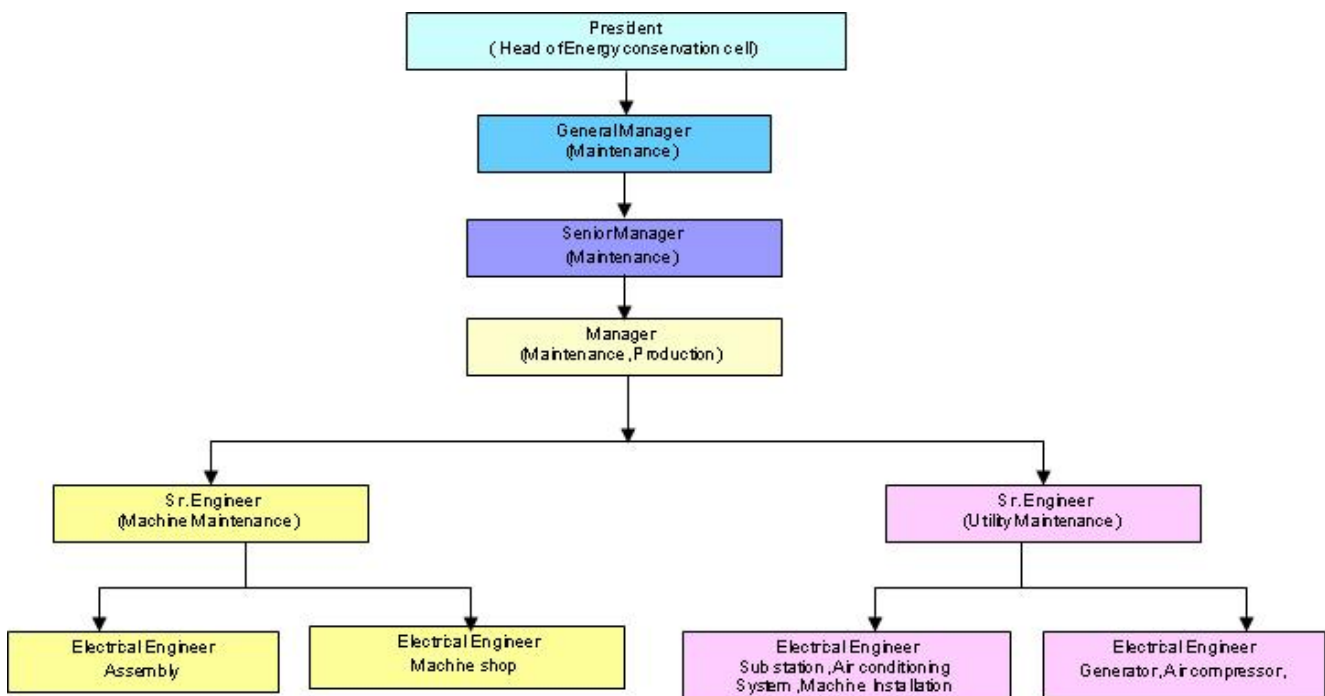
e) Has your unit/ organisation declared its `Energy Management Policy'? If yes, please attach a copy of the same. Energy resource is included in our Environmental policy

Energy resource is included in our Environmental policy

f) Has your unit appointed or designated an `Energy Manager'? If yes, please give his name, complete plant address, Telephone No., Fax No. and E-mail Address.

No.

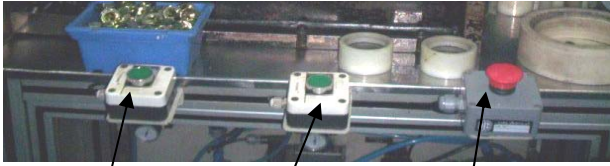
**Organisational Setup for Energy Conservation**



# Commitment to Environmental and Safety

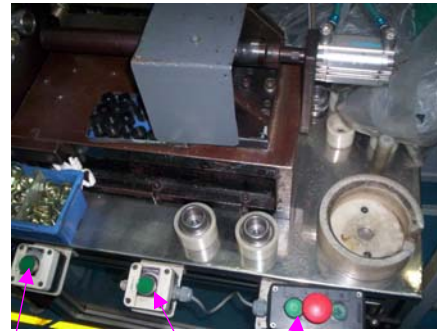
## 1. Two Hand Push button – Cycle start

Before: Single hand Push button



Veih Connector push button      Single Hand cycle Start      Emeraencv Stop

After: Single hand Push button



Veih Connector push button      Two Hand Cycle Start

## 2. Fire hydrant sprinkler alarm system

### Hydrant System

Hydrant system comprises of Diesel Fire Pump, Jockey Pump, Fire Hydrant lines and Sprinklers. 700KL of water is stored in the sump exclusively for fire protection system. Hydrant pressure of 8 Kg/cm<sup>2</sup> is maintained through out the fire hydrant system in our plant. Incase of fire , due to temperature of the liquid bulb it fuses and sprays a fine jet of water over the fire. If the hydrant pressure drops to 5.5 Kg/cm<sup>2</sup> Jockey pump starts automatically and if the hydrant pressure drops below 4 Kg/cm<sup>2</sup> main Diesel Pump starts automatically



Diesel Pump



Jockey Pump



Smoke Detector

Sprinkler

### Alarm System

The Alarm system comprises of Edwards System Technology Main Panel, Repeater Panel, Smoke Detector, Heat Detector, MCP, Flow -Switches from hydrant system and Hooters. The Detectors are placed through out the plant and connected to the Main Panel. Repeater Panels (2Nos) has been fixed for safety measure to access the condition of the alarm system.



EST MAIN Panel



Sprinkler alarm valve



Repeater panel – 1



Repeater Panel – 2

## 3. Effort towards zero discharge

**Before:** Treated effluent water discharged to land after treatment for horticultural purpose

**After :** Treated effluent reused to process after post treatment in RO and Mechanical Evaporator