

## Company Profile

Kennametal India Ltd is a leading manufacturer of hard metal, hard metal products and machine Tools and caters to the needs of auto and auto related industries, defence, general engineering, etc, and seeks to provide total manufacturing solutions to its customers

### Products:

Insert



Dies



Milling Cutter



End Mill



The company employs about 990 people including skilled and semi skilled workers and has an annual turnover of about Rs 3572 Mi0.

Lean manufacturing practices are adopted to improve the efficiency, increase manufacturing velocity, shortening lead-time and improving the on time delivery. These efforts have enabled the Company to achieve higher output, improved productivity and reduced inventory.

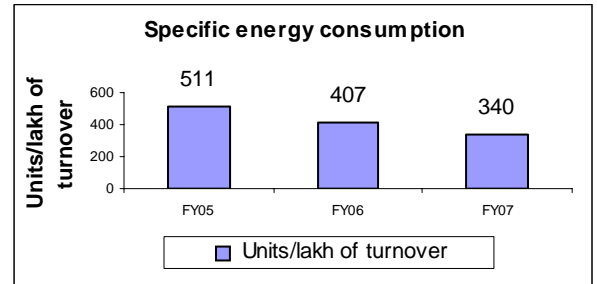
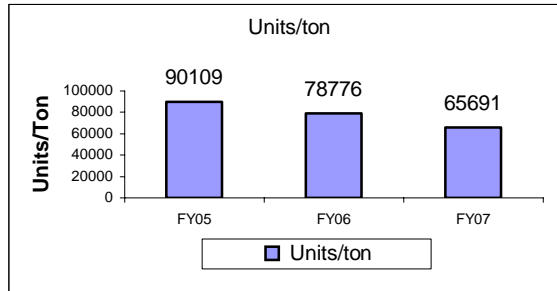
The Manufacturing Practices are Environmental friendly, Ecologically Sound and the company has Cordial Industrial relations. Global quality control practices and process followed in the facility are designed to ensure that the product quality is consistently high.

The Company has been implementing the Energy Conservation Programs consistently to conserve the Energy.

In FY - 07 the Energy Conservation Program was implemented by completing 7 major projects & sustaining the Energy conservation efforts of earlier years.

## Energy Consumption Data and Graphics

	<b>FY05</b>	<b>FY06</b>	<b>FY07</b>
Sales Turnover in Lakhs	27526.9	32109	35723
Hard metal production in Tons	156	166	185
Electrical cons. Lakh Kwhrs	140.57	130.69	121.53
<b>Specific energy consumption</b>			
Kwhrs / Ton of Hard metal production	90109	78776	65691
Kwhrs/Lakh of Sales Turnover	511	407	340

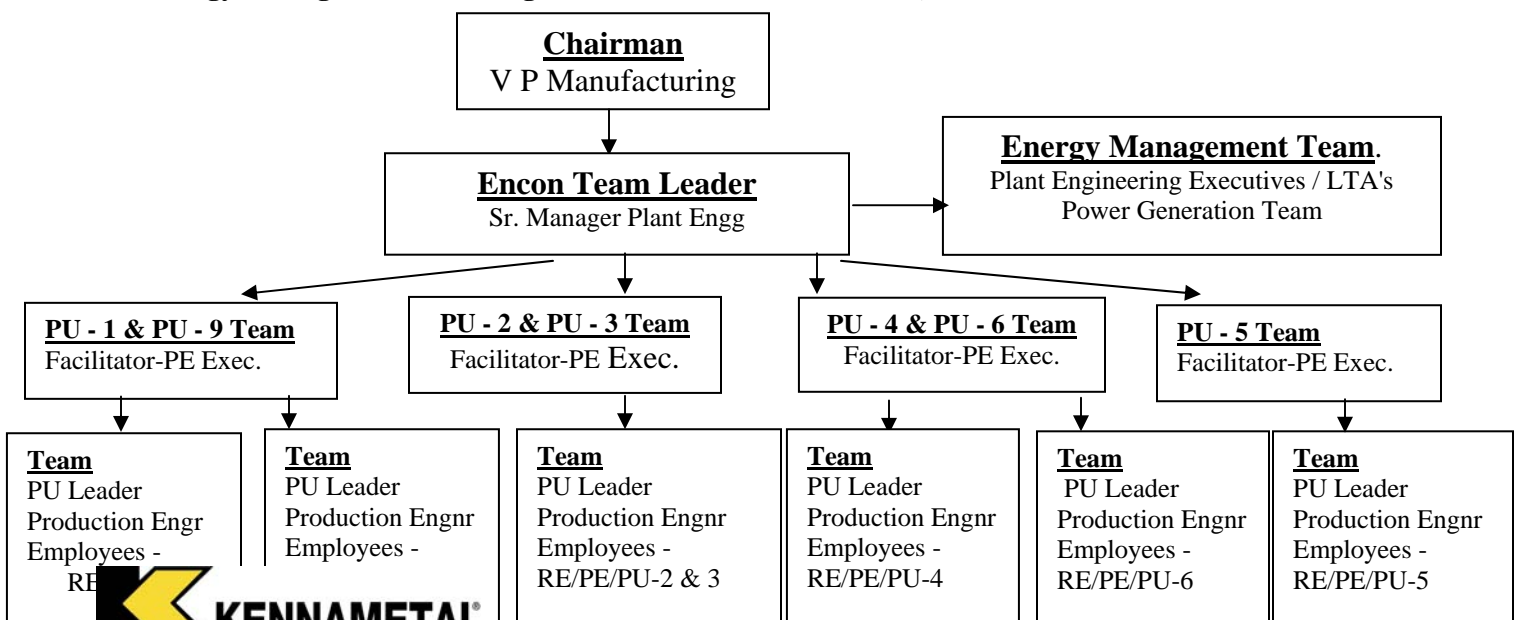


## Energy Conservation Commitment, Policy and Organisational Set up

The Energy Conservation is considered at Kennametal India as a lean activity to eliminate the waste and all the Executives and Employees are committed in conserving the Energy. The Management is committed in implementing the available opportunities and has invested about Rs 10 Mio in FY06 to conserve about 1.8 Mio Units of Energy and Rs 5 Mio FY-07. The Action Plans have been drawn to conserve about additional 6 Lakh Units in FY -08 by investing Rs 1.5 Mio.

The daily monitoring of the Energy consumed is monitored through an Energy Monitoring Data System and the information is shared with the PU Leaders for analysing and reviewing with their Team. The Senior Manager of Plant Engg along with PU leaders is responsible for conserving the Energy. The Executives of the Plant Engg dept facilitate in monitoring the PU wise Power consumption and review the same during monthly meeting with PU leaders and PU Team.

Energy Management Team organisation Structure is as below,



## Energy Conservation achievements in FY -07



In FY –07 several Encon Projects were implemented & the savings from the major projects are summarized below

SI No	Encon Project	Investment in Rs	Annual Energy Consumption in Kwhrs			Annual Savings in Rs
			Before	After	Saving	
1	2MW DG Set Waste Heat Recovery	188	18.9	8.4	10.5	69.72
2	Efficient ventilation system	13	4.64	3.04	1.6	10.62
3	Energy Efficient Lighting system	10	9.36	6.16	3.2	21.2
4	Compressed Air system Improvement	13	6.93	6.06	0.87	5.77
5	Cooling water system Improvement	5	5.25	4.2	1.05	6.97
6	Dust Collectors Modifications	3	1.2	0.64	0.56	3.71
	<b>Total</b>	<b>232</b>	<b>46.28</b>	<b>28.5</b>	<b>17.78</b>	<b>117.99</b>

In addition to the above savings

- The system load has been reduced by 250 KW.
- Furnace oil consumption has reduced by 445 Kl. In FY-07
- Proposed investment of Rs 10 Crore on new DG set to cater the additional load is deferred

#### Energy Conservation Plan for FY –08

SI No	Projects	Investment in Rs	Annual Savings in Kwhrs	Annual Savings in Rs
1	Energy Efficient Fans for Ventilation Plant of PU1, 2 & 5	1600000	192500	1155000
2	Installation of VAM for DG HT Water for Air-conditioning MTB and R& D	4000000	210000	1260000
3	Improvements in Compressed Air Distribution system	1000000	70000	420000
4	Improvements in Street Lighting	1500000	70000	420000
5	Improvement in Electrical Distribution System	1000000	60000	360000
		<b>9100000</b>	<b>602500</b>	<b>3615000</b>



#### Environment and Safety

The Manufacturing Practices of the Company are Environmental Friendly and Ecologically Sound. The Safety Procedures and Practices are complied in all the Operations.

The Designated Manager - EHS coordinates with functional Heads of various Departments and ensures the compliance of EHS norms.

The Company complies with the Legal and Statutory requirements and has Authorization / Permits as per Environmental Norms.

- ❖ The Waste Generated are collected separately, Stored and disposed off / Recycled as per Environmental norms. R and D Dept in FY06 developed a new process, which was approved by State Pollution Control Board to recycle the TC Scrap Powder.
- ❖ The Domestic Water is Treated in house 100m<sup>3</sup> / Day Sewage Treatment Plant and treated water is used for Gardening.
- ❖ Rain Water Harvesting – The Facility has implemented various Projects like; Bore well Recharging, Soak Water Pits, Infiltration Wells, Ponds, constructed Underground tanks of 80 KL to harvest about 8 Mio Liters of Rain Water, thus making the facility self sufficient trade Effluents are sent to PCB approved vendors for Disposal
- ❖ The Stacks and Air Pollution Control Devices are provided as per PCB norms and performances are monitored periodically.

### **Safety and Health**

- ❖ The working environment in the facility ensure Safe and Healthy conditions. The PPE s (personnel protection Equipments) are provided. The safety eyewear are provided to all the Workmen, contractor and Visitors.
- ❖ The Annual medical Health Check up of the Employees is done to monitor the Employee Health.
- ❖ The Fire Alarm, Detection and Fire Suppression Systems helps in monitoring the Workplace.
- ❖ The Risk Audit, Safety Audit and recording Near Miss accidents help in sustaining the safe working Environment.
- ❖ The Facility has been Land scaped with Lawns, Gardens and Trees.

### **The Company's efforts have been recognized & has received the following Awards in FY04~FY06.**

1. **Kennametal Presidential Award for Environment** - For Encon Project.
2. **Kennametal Excellence Award for Safety & Health** - For Powder Handling
3. **CII Leadership & Excellence Award in SHE- 2005**
4. **Parisara Mitra** – Instituted by Karnataka Environmental protection Institute. Bangalore.
5. **Outstanding Gardens and Lawns** - Instituted by Mysore Horticultural Society, Lalbagh.
6. **Samman Patra** - For outstanding Central Excise revenue performance during the FY05.
7. **CII Leadership & Excellence Award in SHE- 2006**
8. **Best Safe Industry (Large) Award. –2006 –Directorate of Factories & Boilers**
9. **State Level Energy Conservation award 2006 – Govt. of Karnataka/KREDL**