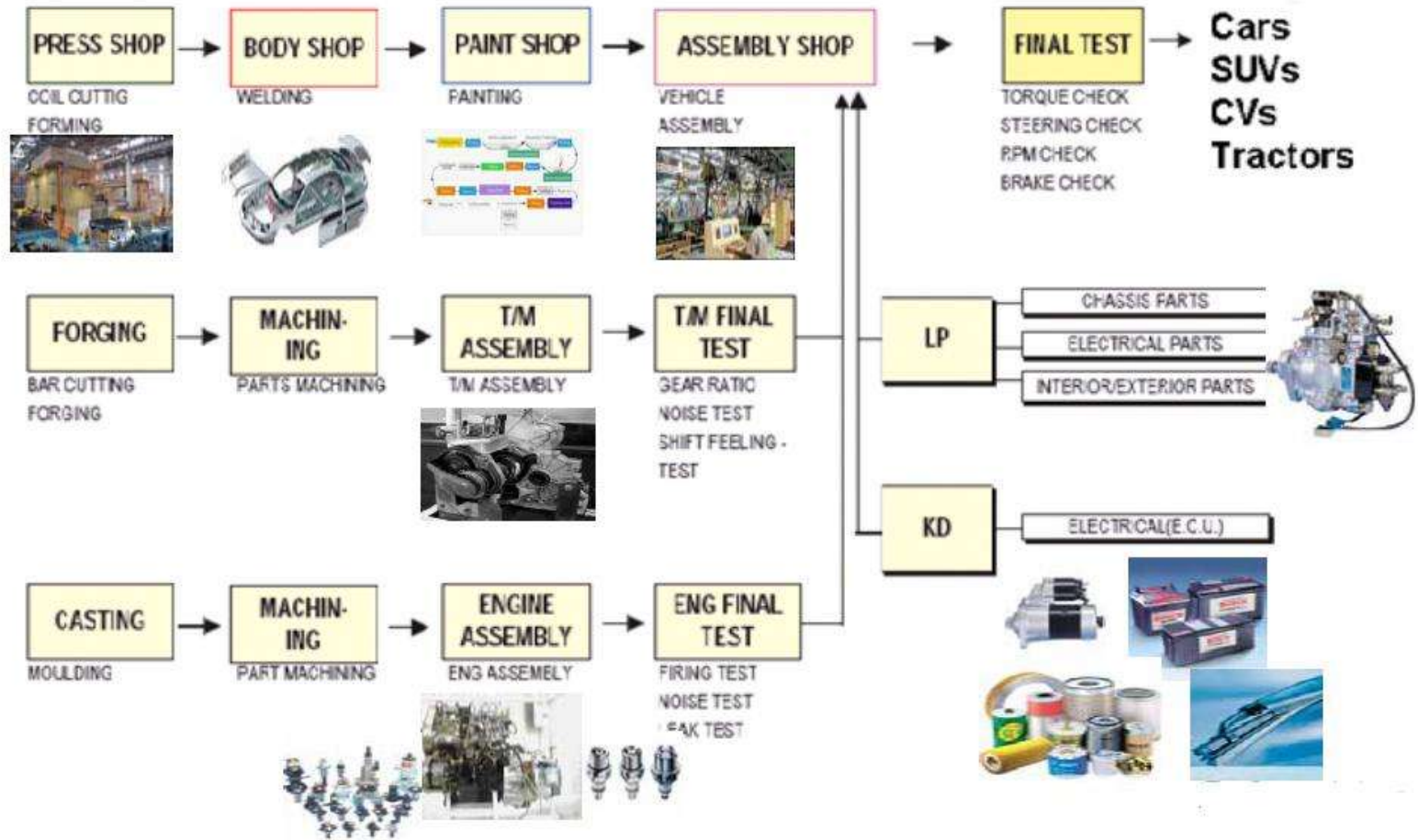


25th June 10

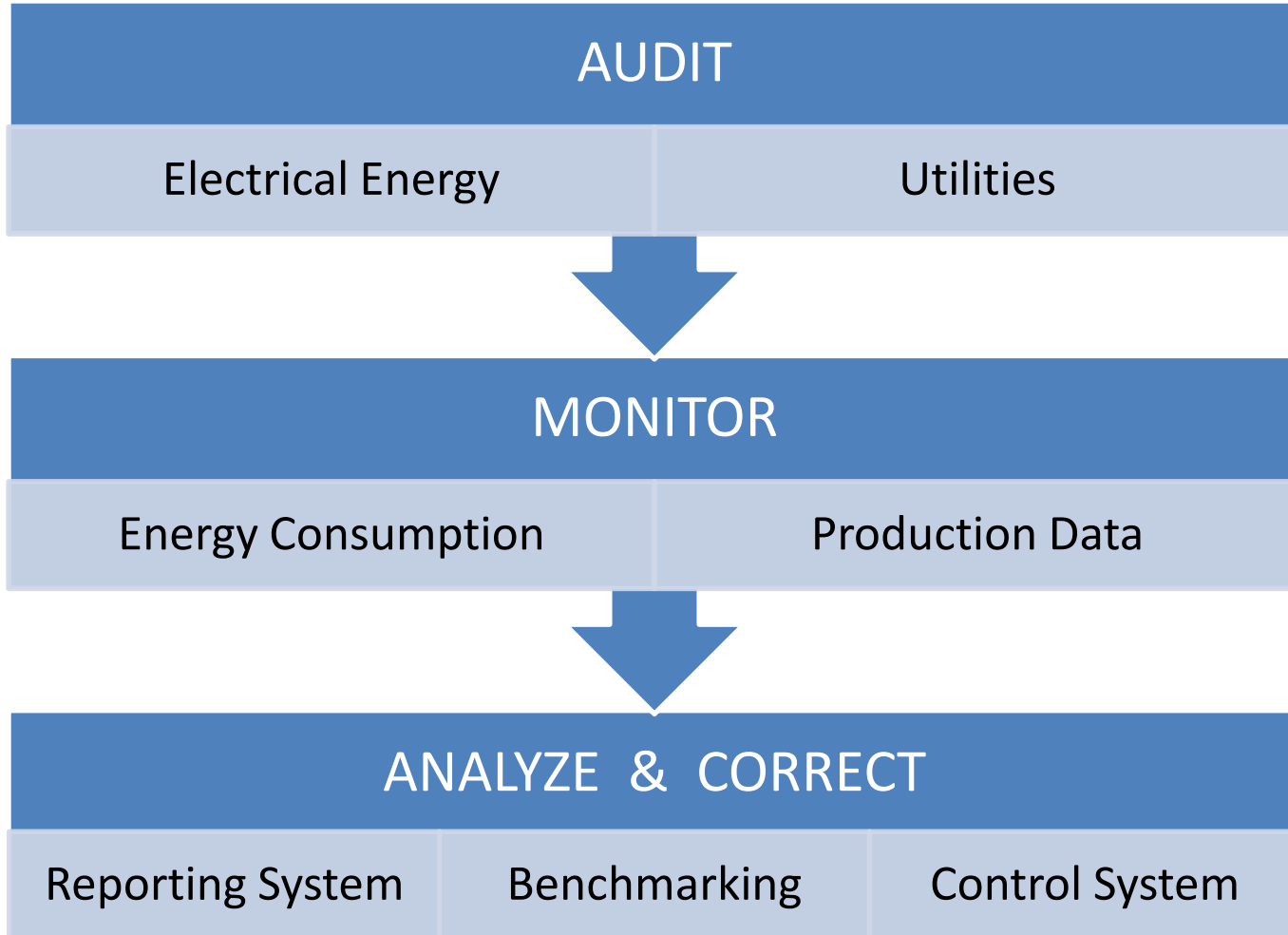
Energy Management System - Automobile Industries



TYPICAL AUTO. PLANT – MANUFACTURING FLOW



EMS Flow Chart



Why EMS?

- Cost of Energies per Product produced ~ 3.5-5% of Total Cost
- Savings in ALL Energies can be achieved only if we KNOW the source of wastage
- Use of Benchmarking helps in better Energy Conservation
- Integration with MIS / ERP helps Management in faster & realistic decisions
- No Manual intervention in Data Acquisition & Reports Generation; helps in knowing REAL picture of Energy Consumption [no manipulated data]
- On-Line Data Monitoring for fastest remedial actions
- LAN / Web enabled data allows all concerned in Remote Monitoring & Controls
- Easy Integration with Productivity / Breakdown / Traceability Reporting
& Asset Management System

Different Energies & Utilities

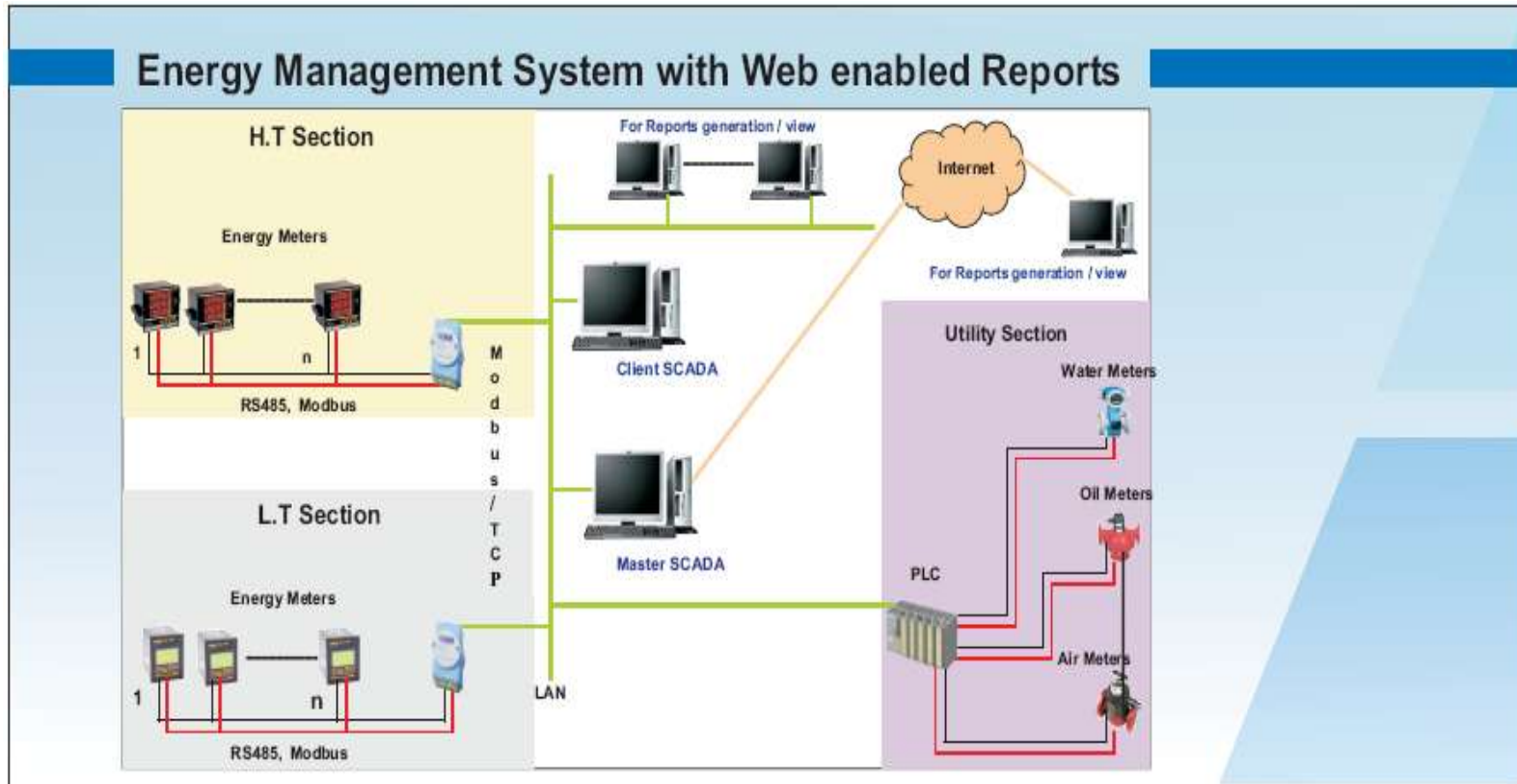
**Electrical
Energy**

- **SEBs**
- **Gen. Sets**

Utilities

- **Gas [LPG / CNG]**
- **HSD / FO**
- **Steam**
- **Water**
- **Air**

TYPICAL SCHEMATIC



Features:

- ✓ Web enabled Reports upto Product Loading [Cost of Energy / Product]
- ✓ For all Energies / Utilities like Electricity, Fuels, Air, Water, Steam . .
- ✓ ANY make / ANY Protocol / ANY Interface
- ✓ Uses existing Meters & LAN to save Hardware & Cabling costs



AUTOMATION TEKNIX

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FEATURES

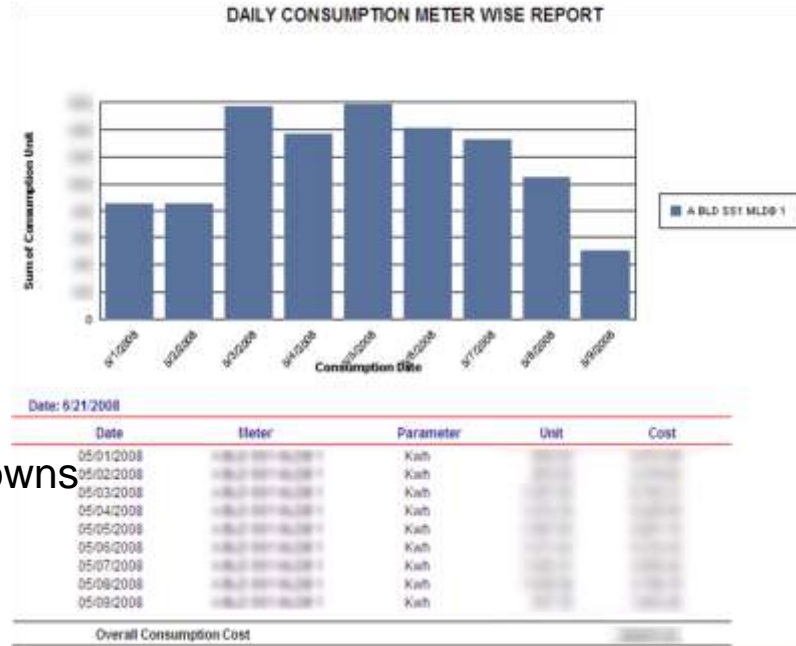
- ✓ Consumption / Quality Analysis
- ✓ Remote Monitoring & Controls thro' Web / LAN / GPRS / PSTN line connectivity
- ✓ Can work for ANY Energy / Utility like Electrical, Air, Steam, Water, Fuels, Gases . . .
- ✓ Can work for ANY Application / Hardware
- ✓ Scalability to ANY Level
- ✓ Can add Asset Management Module to manage Machine / Equipment / Instruments . . .
- ✓ One Point Responsibility
[Design to Procurement to PC based Software development to Project execution]
- ✓ Databases like SQL Server, Oracle & exhaustive Reporting
- ✓ TOD (Tariff Zones) based Productivity Planning
- ✓ Monitoring & Control of Max. Demand (M.D.), Power Quality, Power Factor correction
- ✓ Settings like Set Points, CT / PT Ratios, Reset etc. thro' PC (meter dependent)
- ✓ Harmonics Analysis

ADVANTAGES

- ✓ Online, Real Time Data Reporting
- ✓ Web / LAN enabled Standard & Custom-built Reports
- ✓ Integration with ERP / MIS Systems thro' APIs with automatic flow of plant data
- ✓ Centralized Database for All Equipments / Sections / Plants helps in Benchmarking
- ✓ No additional software installation required on Client's PCs to view Reports
- ✓ LAN connectivity for entire system for faster communication & savings in cable costs
- ✓ Scheduled auto E-Mailing of Reports
- ✓ SMS notification of Alarms/Faults for faster corrective actions helps in Preventive Maintenance / avoids Breakdown
- ✓ Can take commands over Cell Phones
- ✓ Modular Architecture

REPORTS

- Shift / Day / Month / Year wise plus From-To
- Energy Consumption in KWh / in Rs.
- Energy Cost per Product produced
- Phase / SBU / Section wise
- Machine / Equipment wise - Running Hours / Breakdowns
with Reasoning for Analysis
- Alarm / Events Status
- Average / Min. / Max. Values
- Auto Report Generation
- Auto E-Mailing Reports
- Bar / Pie Charts for ease of analysis
- Machine Breakdown
- SMS for Alarms for faster action



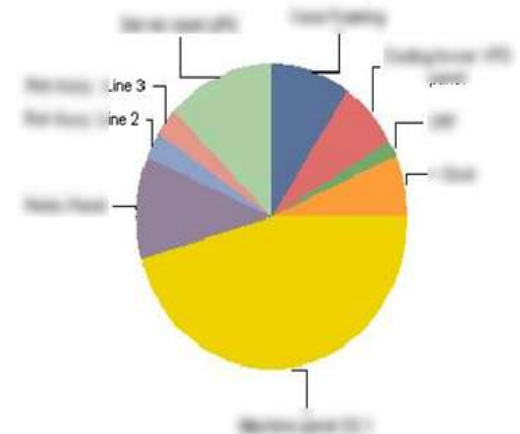
Log In

User Name :

Password :

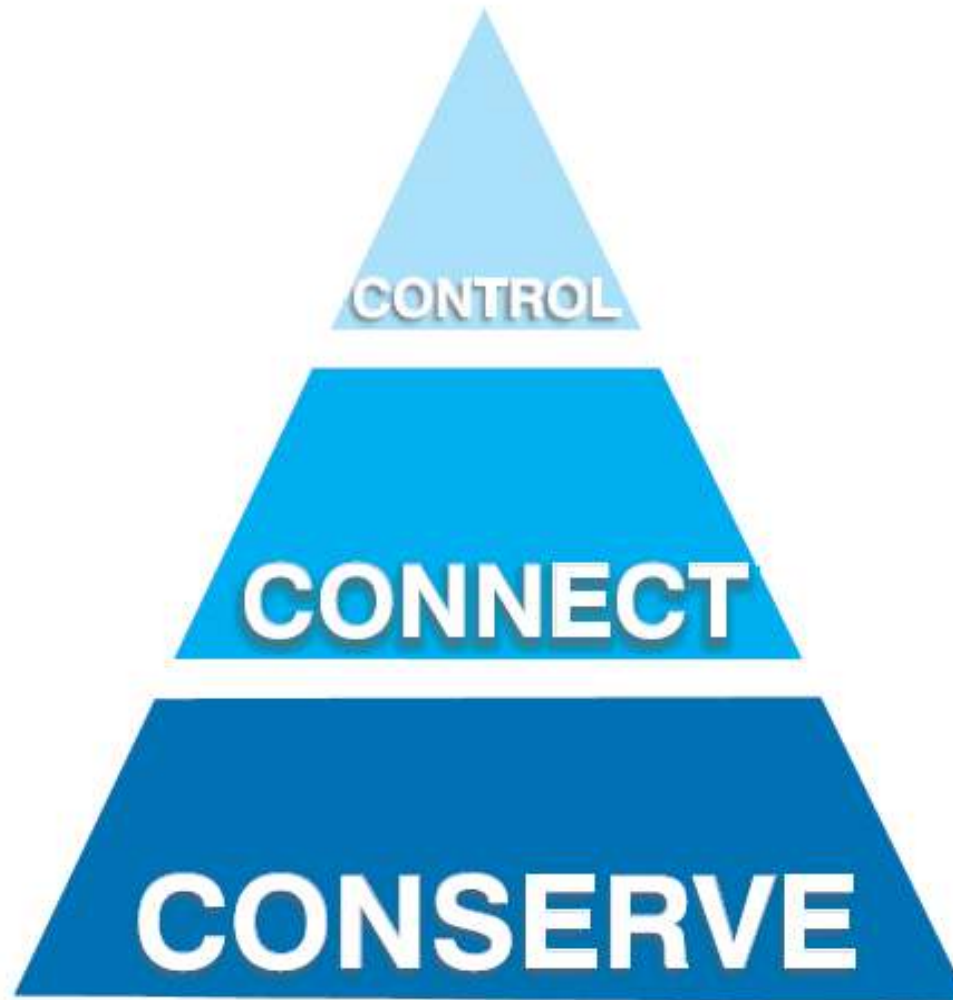
Remember me next time.

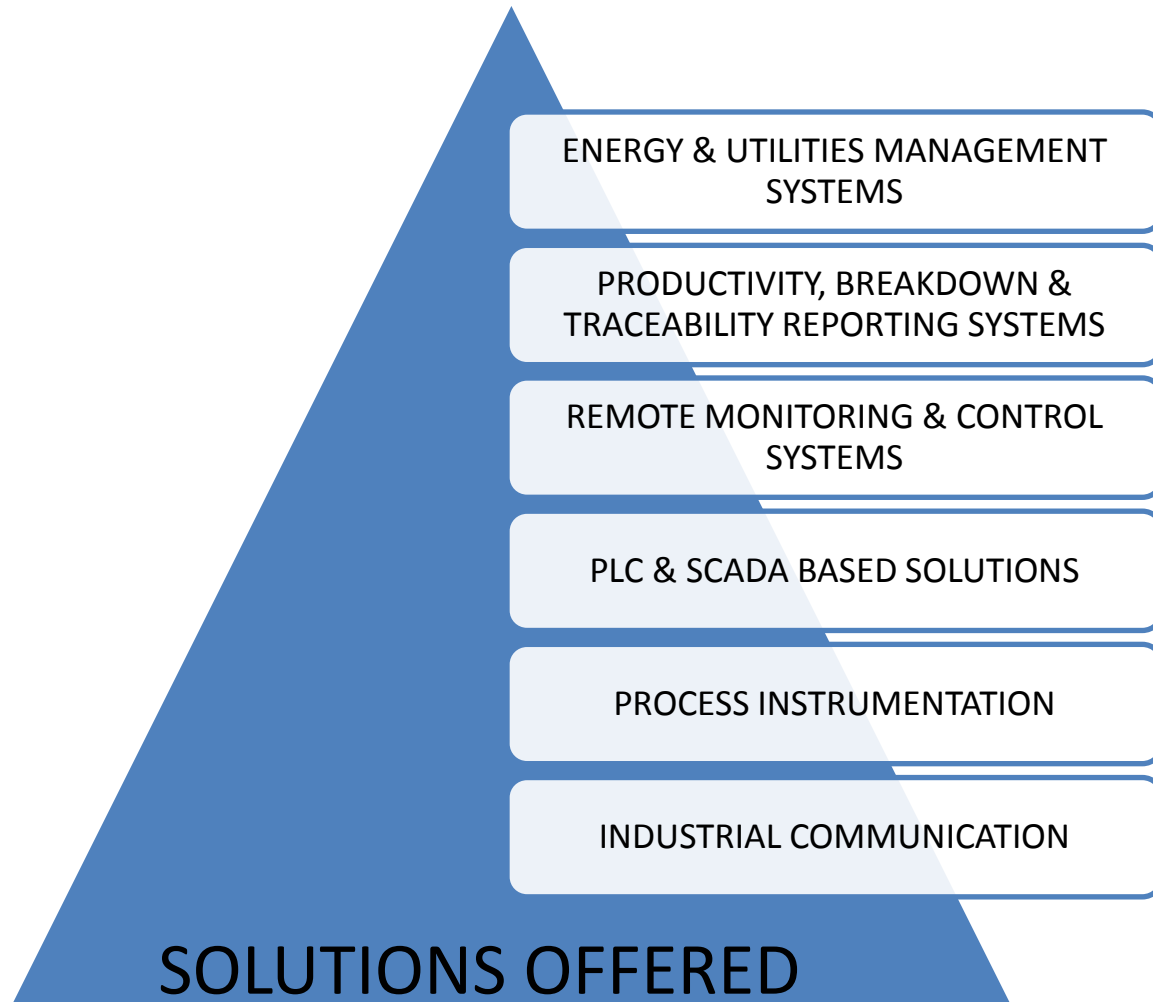
Version : 00.00.10
Released On : June 17, 2008



FEATURE	DETAILS	E + UMS	AMS	P+B+T
Reports - Time wise	Daily [till time] / Weekly / Monthly / Yearly / Shift wise / From - To	✓	✓	✓
Reports - PVs	PVs / Avg / Min / Max	✓		✓
Reports - Consumption / Generation		✓		
Reports - Running Hrs.		✓	✓	
Reports - Alarms / Events		✓	✓	✓
Reports - Break Down	with Reasons	✓	✓	✓
Reports - Analysis	Benchmarking	✓	✓	✓
	Machine / Equipment wise	✓	✓	✓
	Operator wise			✓
Reports - Trends / Charts	On-Line / Historical : for Analog Values only	✓		✓
	Bar / Pie Charts	✓	✓	✓
Calibration / Maintenance Tasks	Schedules / Reminders		✓	✓
Productivity	Products produced per Machine / Section / Operator	✓		✓
Traceability	Traceability to Raw Material, Vendor, Operator, Test Reports			✓
Manual Entries of parameters	with time frame [date]	✓	✓	✓
Other	Reports' Export to PDF, XLS . . .	✓	✓	✓
	Integration with ERP / MIS - API	✓	✓	✓
	Auto E-Mailing Reports	✓	✓	✓
	Auto SMSs for Alarms	✓	✓	✓
	Remote (Web / LAN enabled) Monitoring	✓	✓	✓
	Control Action	✓	✓	✓
	Specific Energy Consumption	✓	✓	
	Specific Raw Materials Consumption	✓	✓	
	Spare Parts Management		✓	✓
Access Control	Levels to access different data	✓	✓	✓
Data Base	MySQL / SQL Server / Oracle . . .	✓	✓	✓

ABOUT US





THANK YOU !



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