Process Management

Network Power

Climate Technologies

Appliance Solutions

When the stakes are high

Industrial Automation

Motor Technologies

Professional Tools

Storage Solutions

EMERSON.

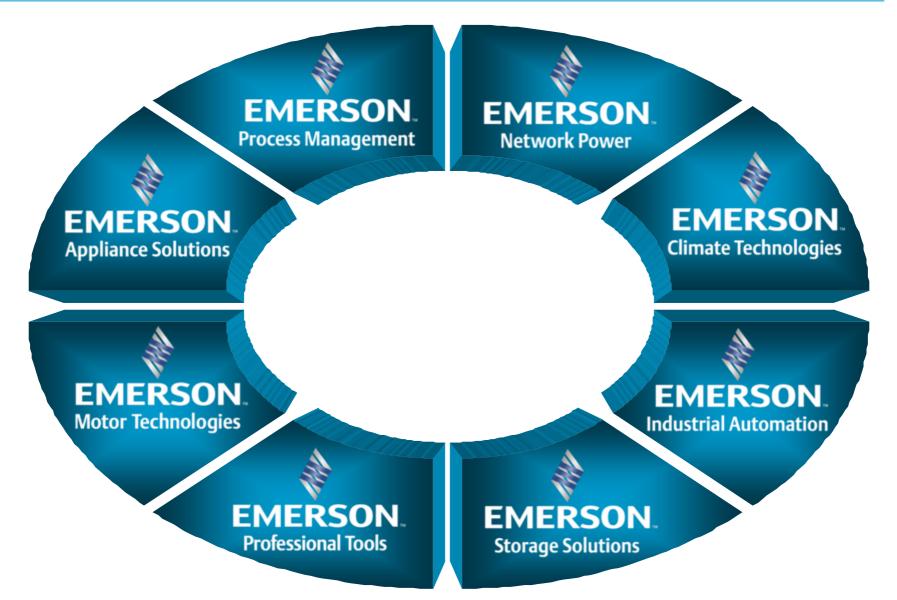
CONSIDER IT SOLVED.

Emerson: \$13.8 Billion In Revenues With Over 60 Divisions

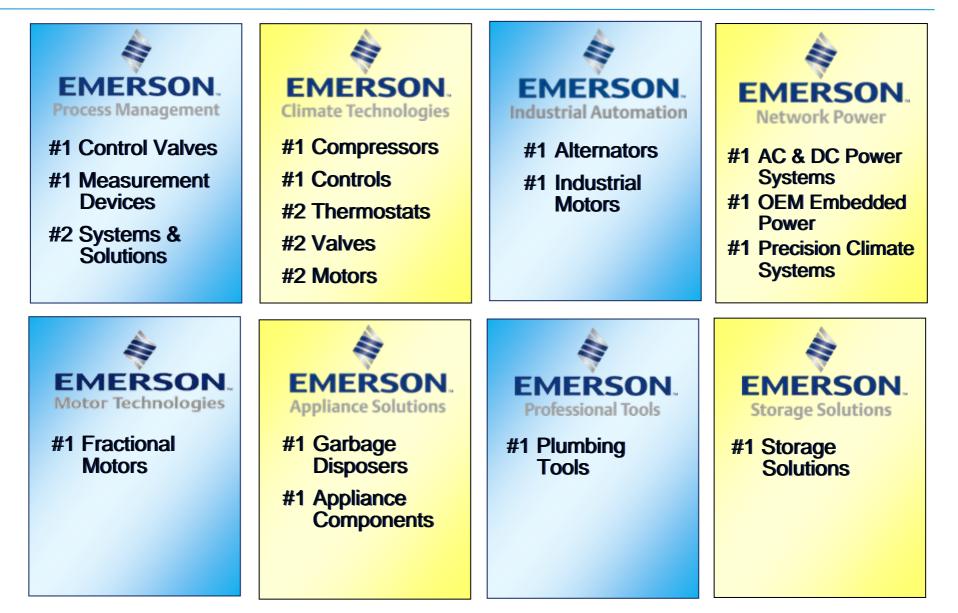




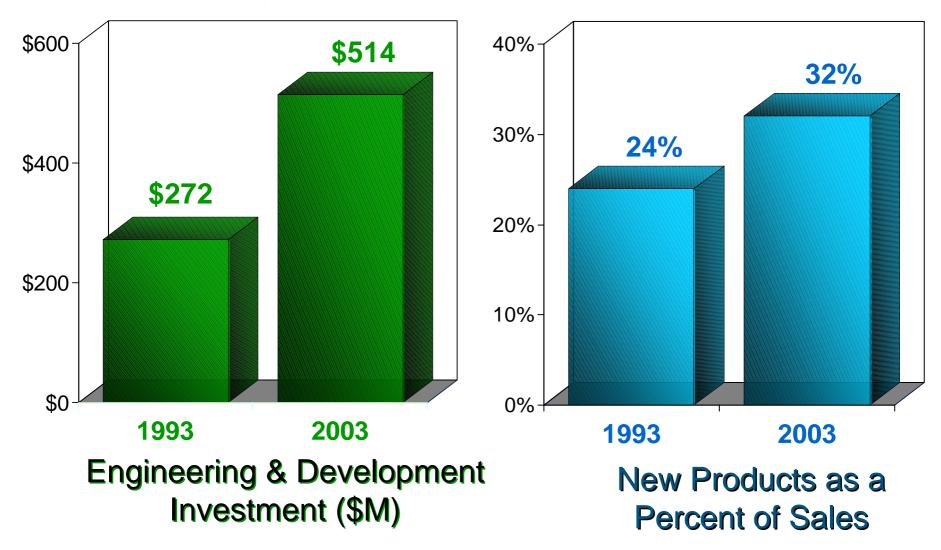
Emerson Business Units



Global Market and Technology Leadership



Emerson Growth Through Technology Leadership



Emerson Global Presence

Worldwide Employees: 106,000 Locations: 290

North America Sales: \$8.4 billion Employees: 57,600 Locations: 175 Europe Sales: \$3.2 billion Employees: 22,000 Locations: 70

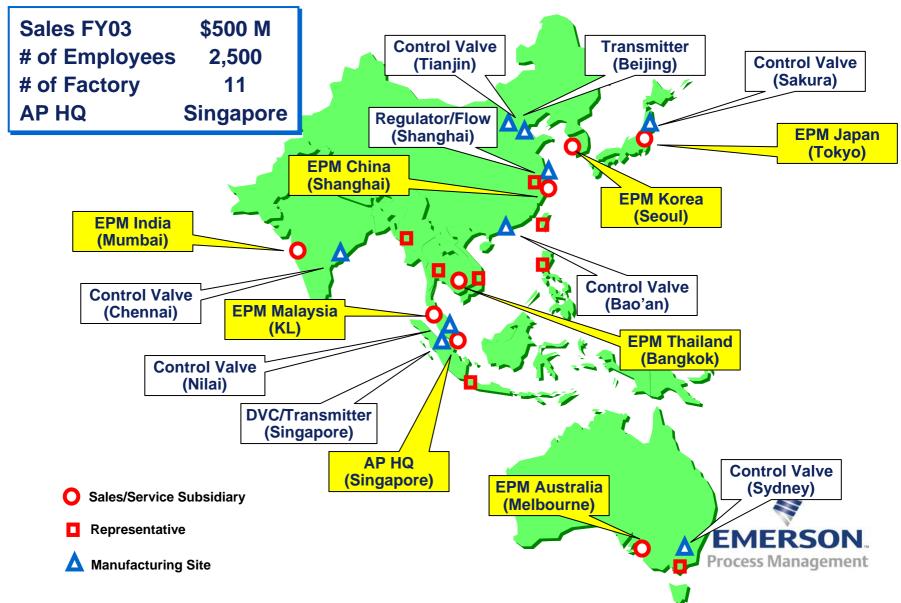
Asia Sales: \$1.7 billion Employees: 25,000 Locations: 40

South America Sales: \$0.3 billion Employees: 800 Locations: 3 Rest of World Sales: \$0.4 billion Employees: 600 Locations: 2

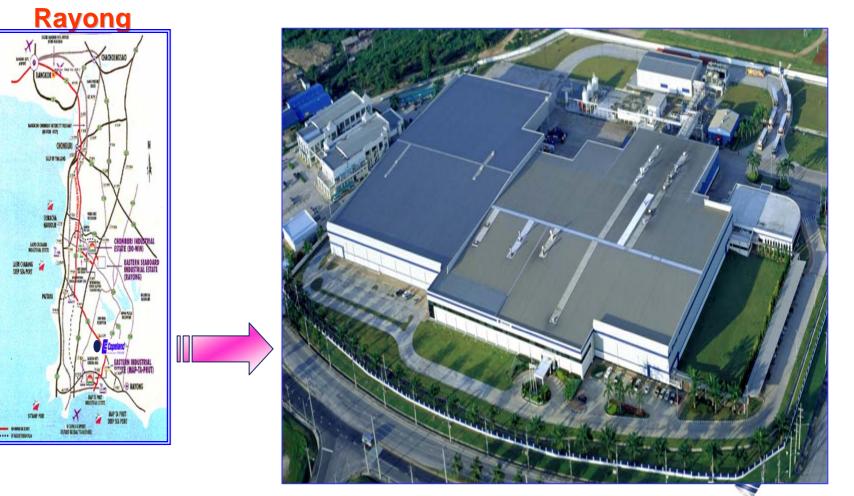
Who is using our technology?



Emerson Process Management AP Presence



Emerson Electric (Thailand) Ltd





Profile

Total Area	
Building	

- : 94,000 sq.m.
- Factory
- Office
- : 13,248 sq.m. (FY02, 26,423 sq.m.)
- : 12,648 sq.m. (FY02, 23,403 sq.m.)
- : 600 sq.m. (FY02, 3,010 sq.m.)
- Construction Production
- 1 C 1996 . . . Feb. 1997

Capacity

- Phase 1 only
- Phase 1+ Phase 2 :
- : 640,000 Units/year
 - 1,200,000 Units/year



Asset Optimization

Overview



Definition

 Asset Optimization makes your boilers, compressors, turbines, furnaces, heat exchangers, pumps, instruments, valves, and other process equipment as perfect, effective, or functional as possible



Why is it important





Emerson's Asset Optimization Delivers

 World-class services and innovative technologies to increase the availability and performance of production assets for improved bottom line results



Mechanical Equipment

Electrical Equipment





Process Equipment Instruments & Valves



AMS Suite Technologies





AMS Asset Portal



- AMS Device Manager



AMS Machinery Manager



AMS Performance Monitor



- AMS Optimizer



Other asset information sources

- Decision-support, reporting and analysis on the health and performance of production assets
- Predictive and proactive maintenance of instruments and valves
- Predictive and proactive maintenance through condition monitoring of mechanical equipment
- Predictive and proactive maintenance through performance monitoring of process and mechanical equipment
- Real-time economic optimization of units, plant or multiple facilities based on changing conditions and business constraints





PlantWeb Services

- Ensure successful implementation of the AMS Suite and maximize the value realized by users
 - Implementation
 - Assessment and Benchmarking
 - Program Design
 - Apply AO Technology
 - Define & Document Work Processes
 - Enterprise Integration
 - Education / Certification
 - Ongoing
 - Diagnostics Services
 - Monitoring & Analysis
 - Program Management
 - Hardware & Software Technical Support
 - Education / Certification



J-Power (Formerly EPDC) Introduction



J-Power Building (Ginza, Tokyo)

Founded: September 16, 1952 Capital: Authorized capital ¥100 Billion Paid-in capital ¥71 Billion Shareholders: 10 Minister of Finance and 9 electric power companies Facilities (as at March 31, 2001): 58 hydroelectric plants 8,260,800kW 7 thermoelectric plants 7,754,500kW 1 geothermal plant (Total 66 plants 16,015,300kW) and transmission facilities etc Sales volumes and revenues (fiscal 2000): Electric power 48,915,411 MWh Revenues from electric power sales ¥ 425 Billion 3,379(as at March 31,2 Employees:

Process Management

J-Power: In the Process of Privatization

- In June 1997, the Japanese Cabinet ruled EPDC (now J-Power) to be privatized within five years corresponding to the reassessment of special public corporations initiated as an attempt for administrative reform.
- Accordingly, J-Power is proceeding to enhance its efficiency of management, concurrently diversifying its activities from its current projects of hydroelectric, coal thermal and nuclear power generation to research and development in exploration of the potentials of alternative sources of power including refuse incineration and windpower, also striving to resolve environmental issues relating to power generation.
- J-Power also intends to engage in power generation activities and the provision of technical assistance abroad.
- J-Power has been successfully listed in Tokyo Stock Exchange Market from Oct 2004.

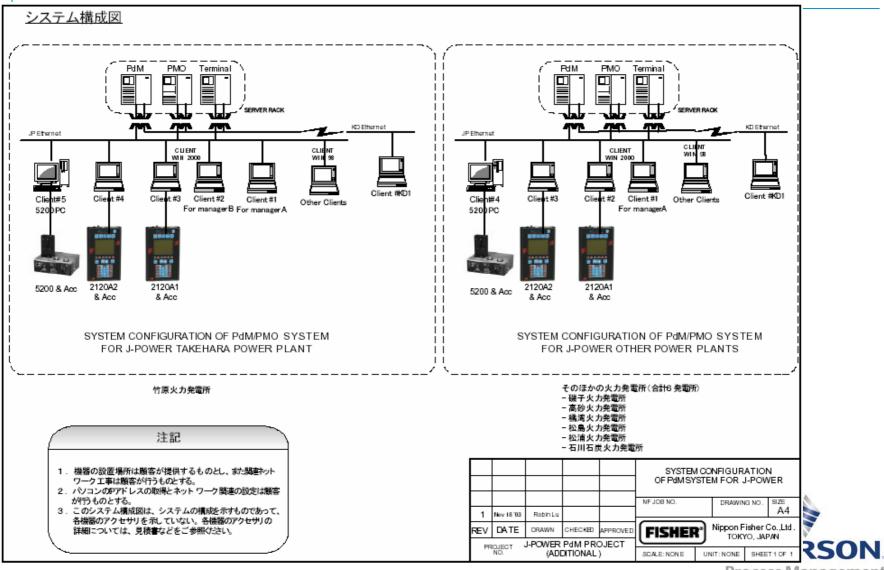


Maintenance Reform @ J-Power

- Inviting Duke Engineering Services (now a part of Framatome ANP Inc.) to survey their Takehara Plant ('00-'02).
- Dispatching 3 engineers to CSI for extensive training (01'-'02).
- Introducing PdM Programs into all 7 thermal power plants (May '02).
- Sublicensing CSI training programs and conducted extensive training for all PdM Personnel by the 3 engineers with CSI's assistance ('02-'04...).
- Case histories show that the PdM programs have high ROI.



Predictive Maintenance System @ J-Power



Process Management

Process Management

Network Power

Climate Technologies

Appliance Solutions

When the stakes are high

Industrial Automation

Motor Technologies

Professional Tools

Storage Solutions

EMERSON.

CONSIDER IT SOLVED.