

# Success Through Resource Innovation: Schneider Electric's Hyderabad Plant

Sustainable Business Leadership Forum  
October 11<sup>th</sup> 2012

Dr. Satish Kumar  
Energy Efficiency Ambassador  
Schneider Electric India Pvt. Ltd.

# Schneider Electric at a glance

**22.4**

billion € sales  
(last twelve months)

**39%**

of sales in new economies  
(last twelve months)

**130 000+**

people in 100+ countries

**4-5%**

of sales devoted to R&D

The global specialist in  
**Energy management**

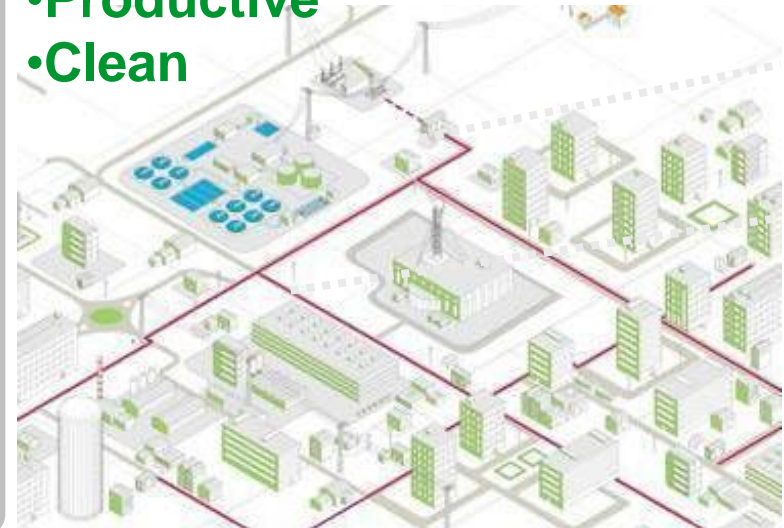
**Making energy:**

- Safe
- Reliable
- Efficient
- Productive
- Clean

up to  
**30%**  
energy saving



Energy production  
& transmission



Energy usage

# Schneider Electric in India



**15,000**

People

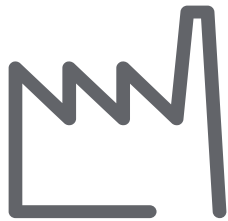
Employee strength



**1,000**

R&D Staff

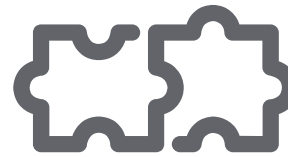
R&D focus



**31**

Factories

Industrial footprint



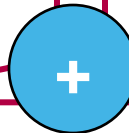
**2,000**

Channel partners

**25,000**

Point of sales

Channel strength



Inorganic growth

**6 Acquisitions** in past 24 months

# Our vision is shaped by 5 Megatrends



**Geographical shift**



**Digitization**



**Everything as a service**



**Sustainability**



**Comeback of governments**

# Our sustainability commitment at a glance

## Green business



Energy efficiency



Renewables



Electric Vehicles



Smart cities and smart grids

## Responsible commitment



Access to energy



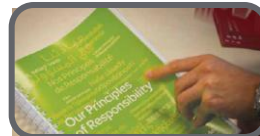
Clean products and sites



People well-being



Commitment to communities



Ethics & responsibility

## Measured progress



January 2012: 3/10  
Objective 2014: 8/10

- Published quarterly
- Audited annually
- Revised with each company programme

# Levels of Energy Management

*From Shop Floor To Top Floor*



## Enterprise

*“I Conserve our enterprise resources”*



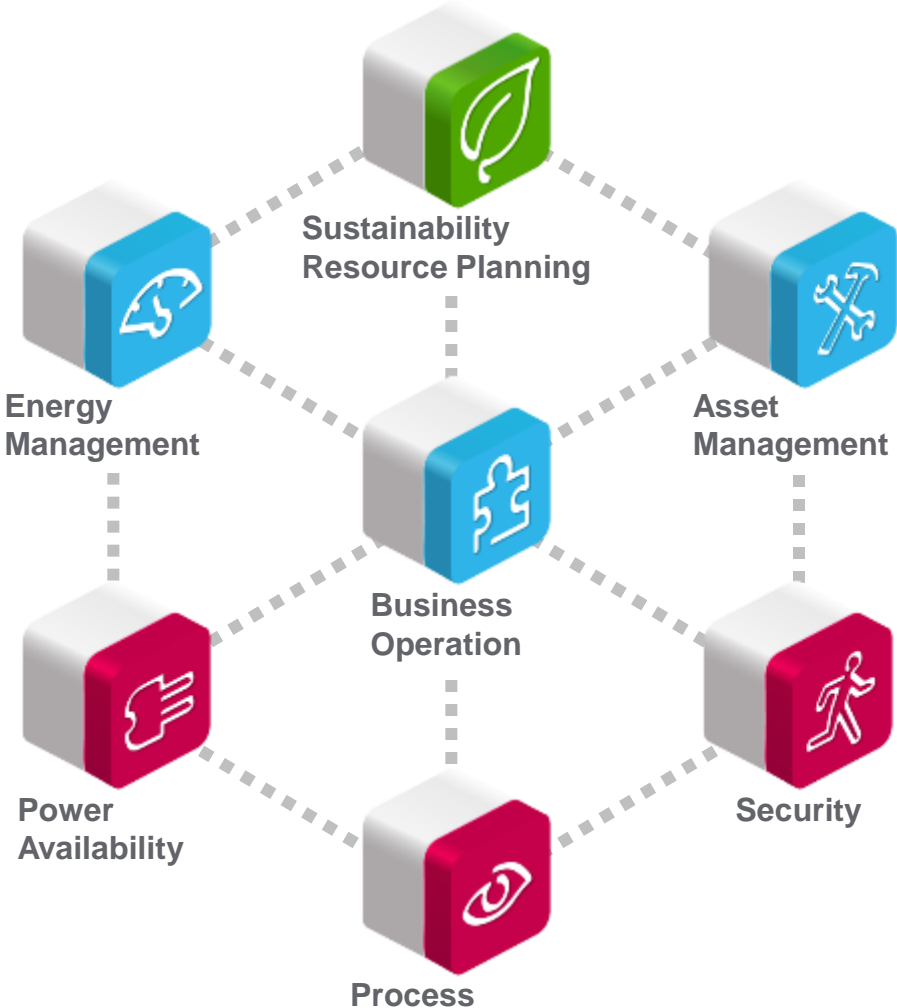
## Operations

*“I Optimize our operations and assets”*



## Control

*“I Control our facilities processes”*



# Case Study- Schneider Electric's Hyderabad Plant

- Plant started operations in 2006.
- Employs approximately 800 employees.
- Manufacturing of electrical products such as ACBs, contactors, relays etc.
- Building area approx. 120,000 square ft.



# Energy Monitoring – Key to Energy Management

## Hyderabad Plant's Energy Dashboard



Energy Operation Online

10/3/2012 5:45 PM

> New Dashboard x Alarms Center x Consumption... x +





# Initiatives under Implementation/Planning

- Reuse Imported packing for Indian products
- Rs 4,22,000/year for Packaging of Evolis for 2011
- Saving of paper & wood
- Reduction in supply chain activity leading to better efficiency



**One Breaker per Packing**



**Two Breakers per Packing**



# Schneider Hyderabad - Plant Products

## RoHS and REACH Compliance

### RoHS

**Aims to restrict certain dangerous substances commonly used in electronic and electronic equipment.**

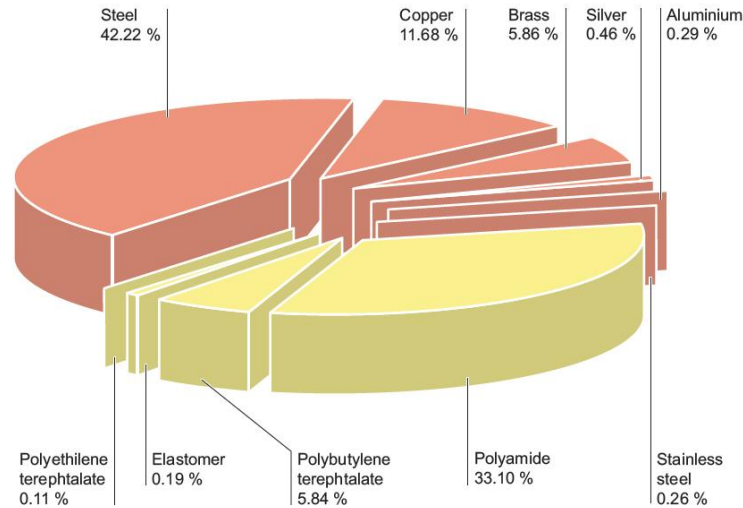
**Tested for  
Lead (Pb)  
Cadmium (Cd)  
Mercury (Hg), etc**

### REACH

**Stands for the Registration, Evaluation, Authorisation and Restriction of Chemical substances.**

**Aim of REACH is to improve the protection of human health and environment.**

# Product Environmental Profile of TeSys



Environmental indicators	Unit	For a TeSys LC1K0910M7			
		S = M + D + U	M	D	U
Raw material depletion	Y-1	$6.86 \cdot 10^{-14}$	$6.78 \cdot 10^{-14}$	$1.00 \cdot 10^{-18}$	$7.66 \cdot 10^{-16}$
Energy depletion	MJ	$8.77 \cdot 10^{+02}$	17.1	$7.22 \cdot 10^{-01}$	$8.59 \cdot 10^{+02}$
Water depletion	dm <sup>3</sup>	$1.23 \cdot 10^{+02}$	11.1	$6.98 \cdot 10^{-02}$	$1.12 \cdot 10^{+02}$
Global warming potential	$g \approx CO_2$	$5.49 \cdot 10^{+04}$	$9.36 \cdot 10^{+02}$	62.8	$5.39 \cdot 10^{+04}$
Ozone depletion potential	$g \approx CFC-11$	$6.84 \cdot 10^{-03}$	$1.35 \cdot 10^{-04}$	$4.13 \cdot 10^{-05}$	$6.67 \cdot 10^{-03}$
Photochemical ozone creation	$g \approx C_2H_4$	19.8	$7.38 \cdot 10^{-01}$	$7.79 \cdot 10^{-02}$	19
Air acidification	$g \approx H^+$	9.38	$2.24 \cdot 10^{-01}$	$1.65 \cdot 10^{-02}$	9.14
Hazardous waste production	kg	$7.77 \cdot 10^{-01}$	$4.78 \cdot 10^{-03}$	$2.24 \cdot 10^{-05}$	$7.72 \cdot 10^{-01}$

# Schneider Energy Action India Summary

## 21 Facilities

- 14 Plants
- 6 Offices
- 1 Distribution Center

## Initiatives

- ISO 50001 Certification
- LEED/IGBC Certification
- New real estate sites < 50 kWh/m<sup>2</sup>/year

## Target Savings

- 10% Energy Savings Targeted

## Energy Efficiency Areas

- Cooling solutions
  - Air conditioners
  - Precision cooling
  - AHU
  - Air compressors
  - Cooling Tower
- BMS solutions
- Lighting solutions
- Power Distribution
- Demand Management
- Injection Moulding
- UPS

# A recognised and awarded commitment

## Reference Ethical Stock index and ratings



- Among the 300 selected companies in the DJSI world out of 3500

### CARBON DISCLOSURE PROJECT

- Top 52/500 in transparency index
- Top 29 on the performance index



- In the best-in-class companies for Vigeo CSR rating agency



- In the Prime category of the Oekom research ranking



- Top 5 of the best French listed companies in CSR



- Top 100 most ethical companies By Ethisphere, EU - For our ethics commitment and governance

## Prestigious awards

### Gigaton award

by carbon war room, UK  
for our commitment to smart grid and energy efficiency



### Zayed Future Energy prize

By Masdar, UAE  
For our contribution to renewables and sustainable development



### Green cross

By national safety council, US  
For our health & safety practices



### Human Capital trophy

France  
For our management internationalisation policy



Make the most of  
your energy™



[schneider-electric.com](http://schneider-electric.com)

**Schneider**  
Electric