

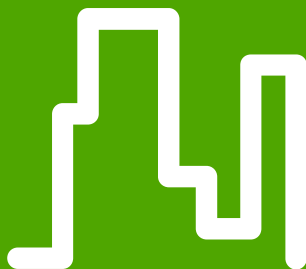
# BAFF-seminaari

## Mitä huomenna?

26.5.2011  
Teemu Hausen



# The Buildings Business of Schneider Electric



## Schneider Electric in figures

**18.3**  
billion sales in 2008 (in €) 

**32**  
% of sales in new economies 

**114 000**  
people in 100+ countries 

**330**  
Rank in *Fortune 500* ranking 

**[800]**  
Million € devoted to R&D 

### Sales by business

Electrical distribution	57%
Automation	29%
Critical power	14%

### Sales by geography


Europe	44%
North America	27%
Asia-Pacific	19%
RoW	10%

### Sales by end market

Energy & Infrastructure	16%
Industry	26%
Data centres & Networks	17%
Buildings	31%
Residential	10%

### People by geography

Europe	42%
North America	25%
Asia-Pacific	25%
RoW	8%

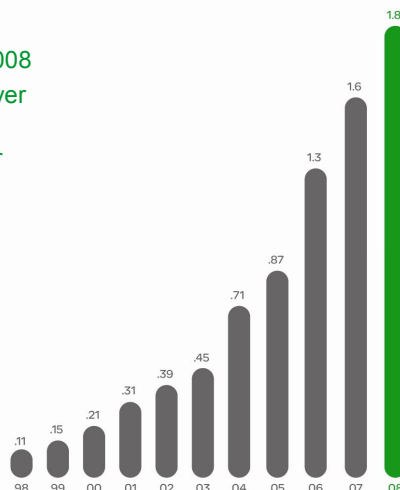
 Listed on the Paris stock exchange

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3

## World class strategic growth

- Revenue of \$1.8 billion (USD) in 2008
- More than 8,000 employees and over 1,000,000 installations worldwide
- Organic growth, significantly higher than industry average
- Strategic acquired competence:
  - 2000: CSI Control Systems International
  - 2003: TAC
  - 2004: Andover Controls
  - 2005: Invensys Europe (Satchwell)
  - 2006: Invensys Americas (Siebe)
  - 2007: Pelco



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4

## Schneider Electric sees six trends in our world

**Energy** as the key challenge for our planet

**Emergence of new economies**

as a major opportunity for our generation

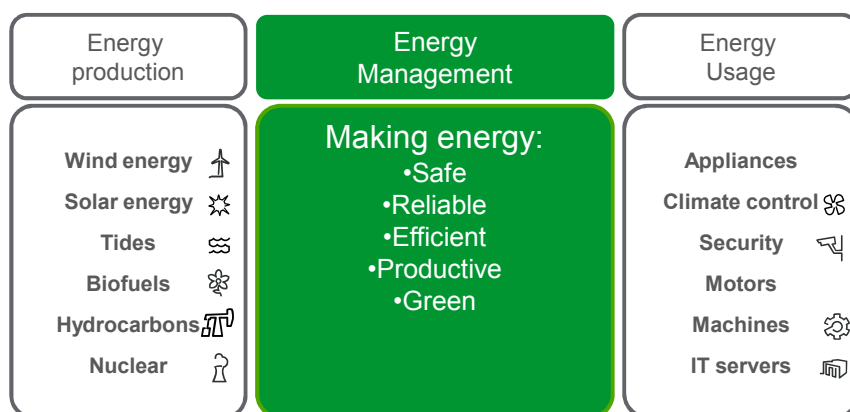
**Connectivity** for everything, everywhere at any time

**Globalization** allowing anybody to get the best of the world

**Simpler solutions** for the increasing complexity of our life and work

**Security** as a growing and global concern

## A unique positioning...



# Introducing Ecostruxure

Welcome to the next generation!



## Our customers' top challenges



### **The energy dilemma**

energy demand versus the environment



### **Total building life cycle costs**

initial capital, ongoing operations and energy



### **Connectivity**

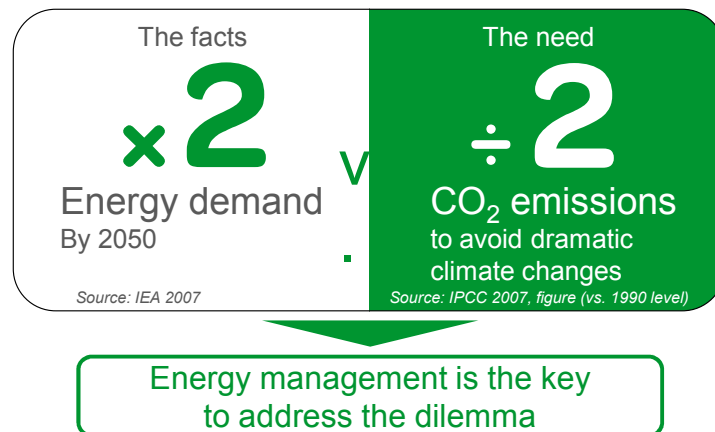
too many disparate systems in the building



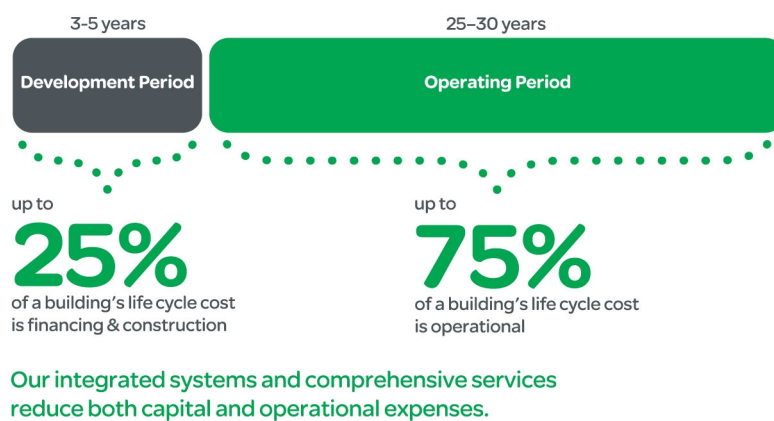
### **Security**

as a growing concern

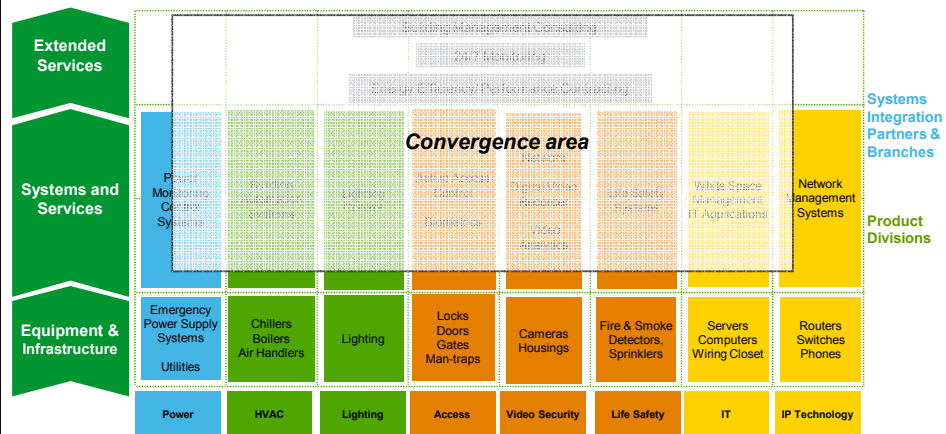
## The energy dilemma is here to stay



## The life cycle cost of a building



## The building ecosystem



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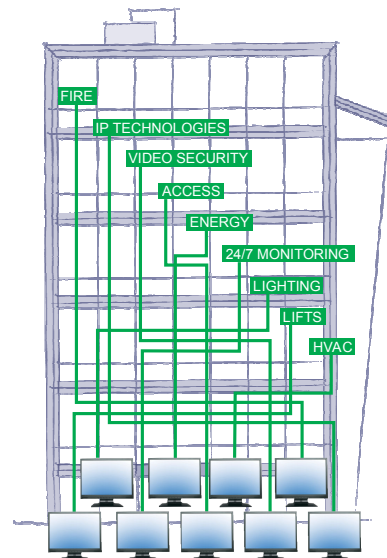
11

## Multiple silo systems in the building

- Multiple networks from multiple vendors
- Too many systems to learn
- Complex troubleshooting

### Silo systems add:

- ✓ CapEx
- ✓ OpEx
- ✓ Obstacles to achieving energy efficiency

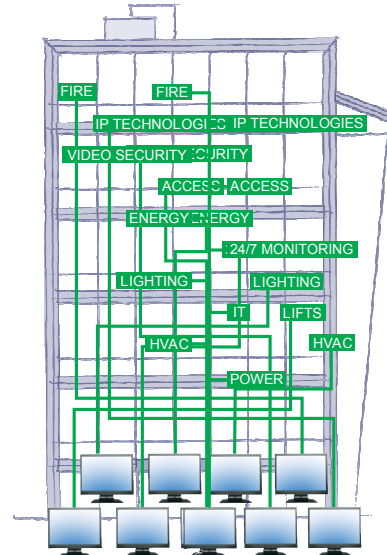


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12

## The integration difference

- Integrated building infrastructure systems enable:
  - Shared Operating Data between Systems via a common Interface
  - More Productive and Responsive Staff
  - Centralized Services that Reduce Costs
  - Lower Cost of Network Ownership
  - What gets Measured gets Managed



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13

## Security as a growing concern

**Terrorist threats** in high risk facilities

Internal or external **physical threats** in the workplace, schools, hospitals and more

Stricter and rapidly changing **regulatory environment** for security practices and reporting

The need to **restrict access** within facilities to authorized personnel only



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14

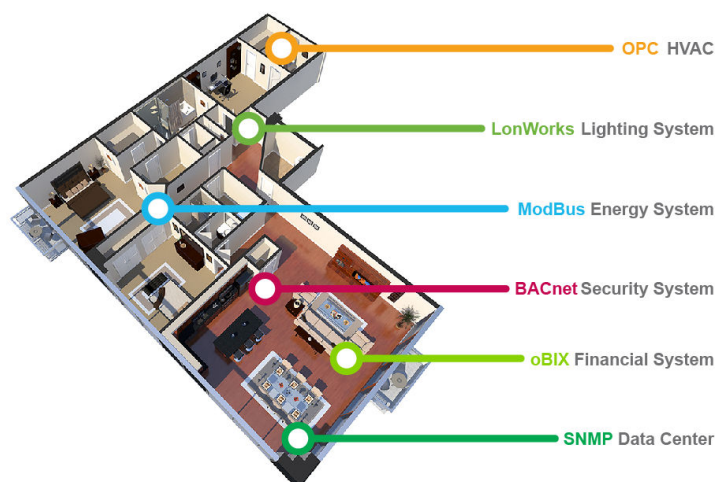
## Our Mission:

develop a **next generation** building management platform

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15

Buildings are multi-lingual...



...Is your BMS?

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16





Making energy safe, reliable, efficient, productive, and green

## The digital revolution and energy

- Humans created 161 Exabyte's of data in 2006, approximately **three million times** the information in all the books ever written.\*
- In 2005, the average IT network user consumed 3Mb bandwidth per month. In 2008, this became **3Mb per day**
- Microsoft and Google announce new datacenter plans based on location of **cheapest** electricity
- \$12 trillion will be spent for energy in the next 20 years, equaling the spending of the **past 100 years**
- Between 2002 & 2007 the cost of electricity **grew by a factor of 3**
- Last year human beings produced **more transistors than rice grains...**and at lower cost\*\*

\*source: IDC, EMC

\*\*source: IBM

# Intelligent Energy:

Enabling the architectural integration of  
data, power, security, cooling & automation

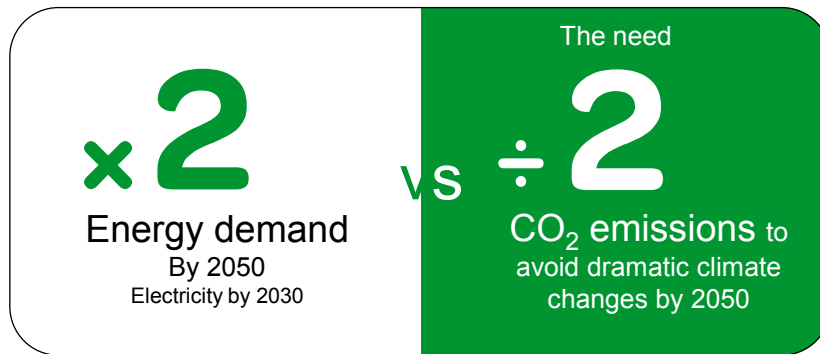


Active energy management architectures  
...from Plant to Plug™

Offering guaranteed compatibility across key applications

Leveraging open standards across both Schneider Electric  
and third party offers

## The energy dilemma is here to stay

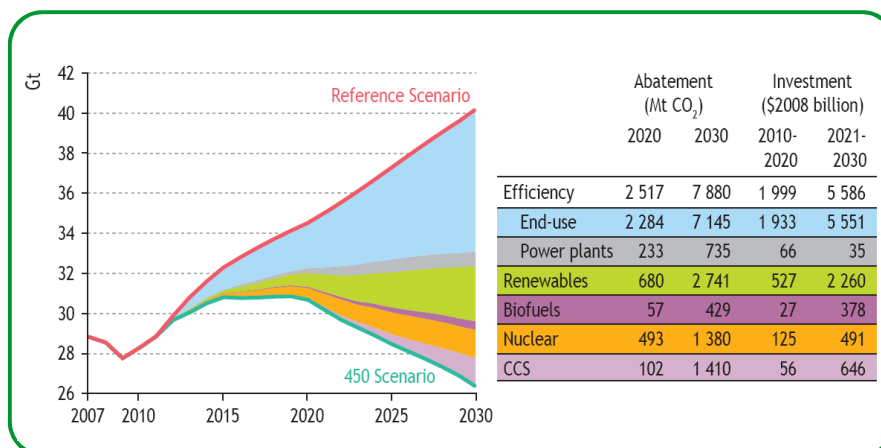


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21

## Energy efficiency is our first priority

Over **50%** of CO<sub>2</sub> reduction will come from energy efficiency

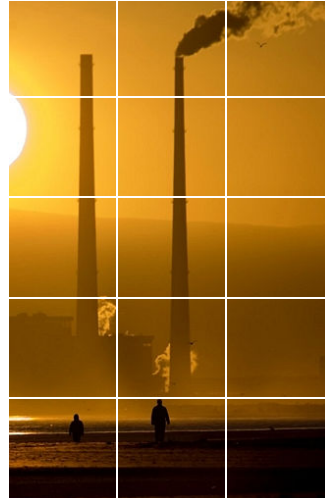


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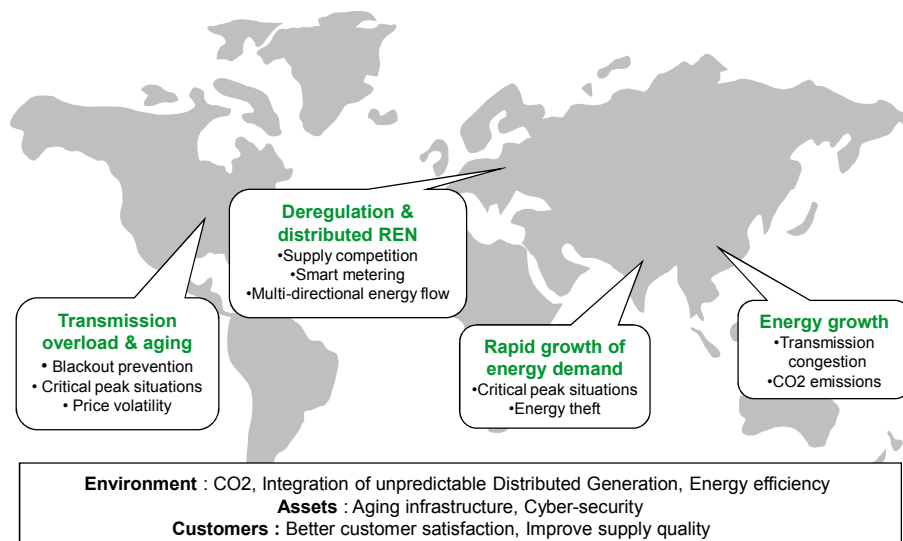
22

## What is smart grid?

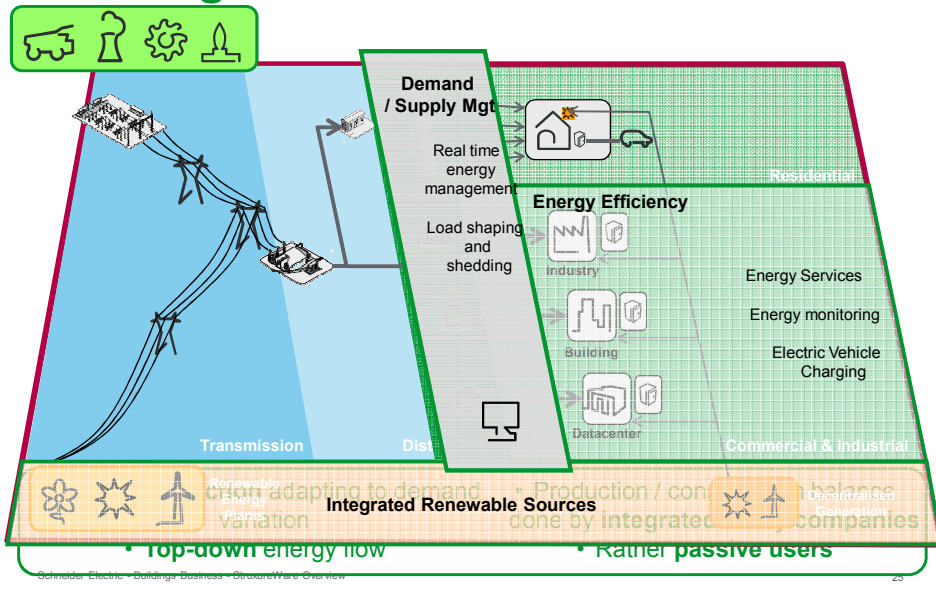
- Creates two-way communication between the grid and load (building)
- Allows two-way energy flow between the grid and load (building)
- Distributes energy intelligently across a region to manage the load better



## Smart grids are evolving for different reasons

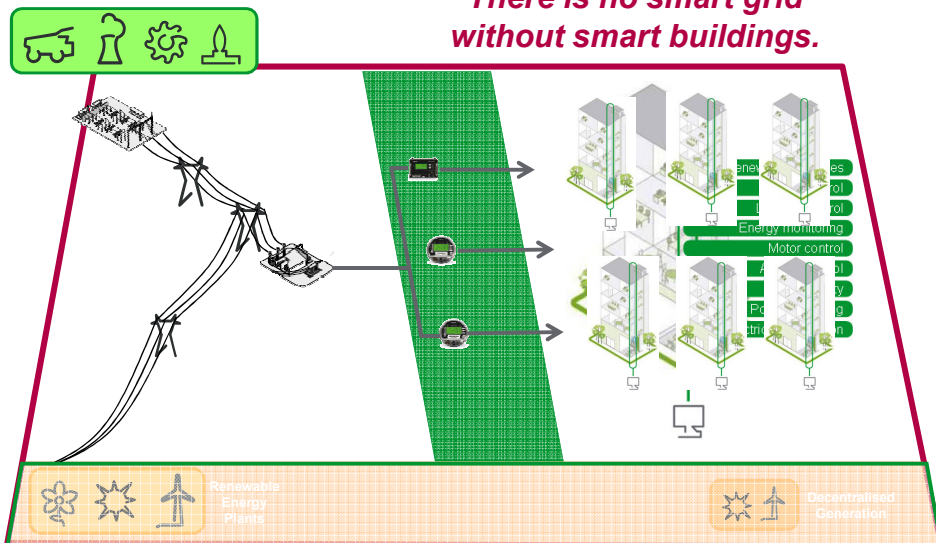


## What is a Smart Grid and how do Buildings contribute?



## Energy efficiency enables smart grid

*There is no smart grid without smart buildings.*



Make the most of  
your energy™



**Schneider**  
Electric