

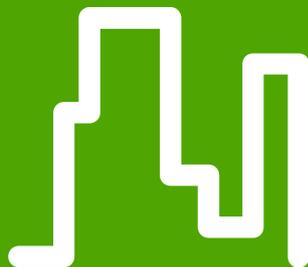
BAFF-seminaari

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%

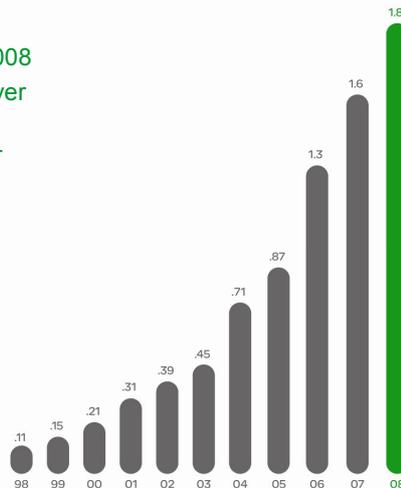
 Listed on the Paris stock exchange

Schneider Electric - Buildings Business - StruxureWare Overview

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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



Schneider Electric - Buildings Business - StruxureWare Overview

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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

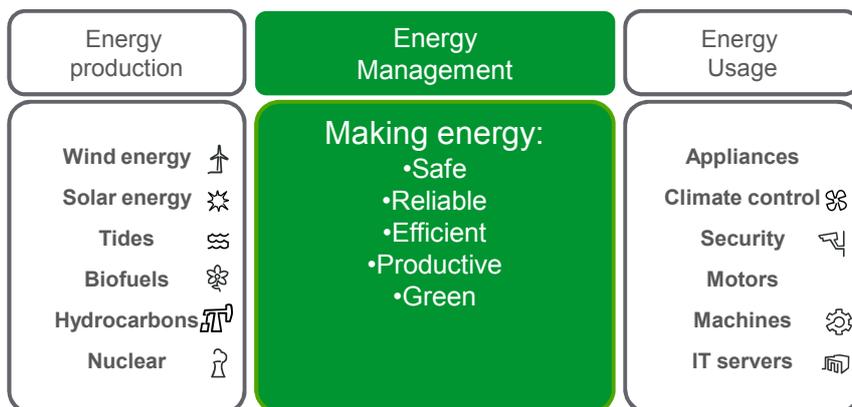
Connectivity for everything, everywhere at any time

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

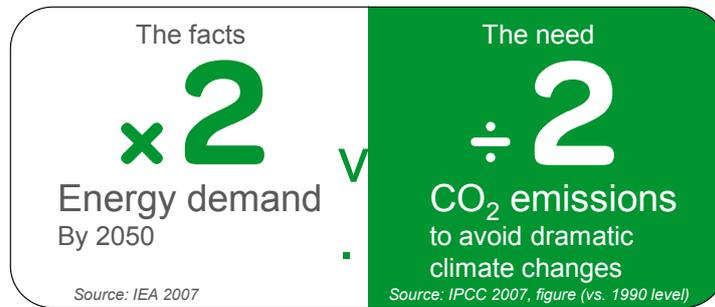
too many disparate systems in the building



Security

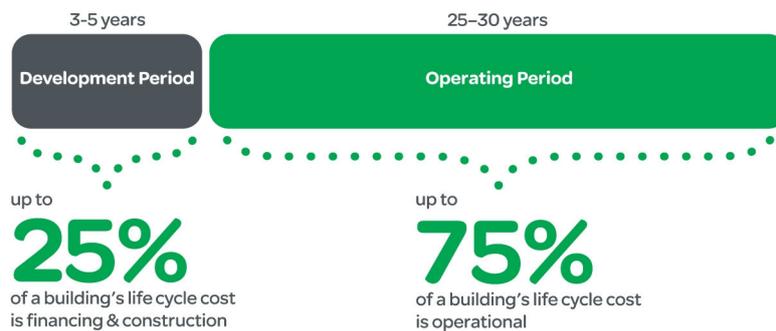
as a growing concern

The energy dilemma is here to stay



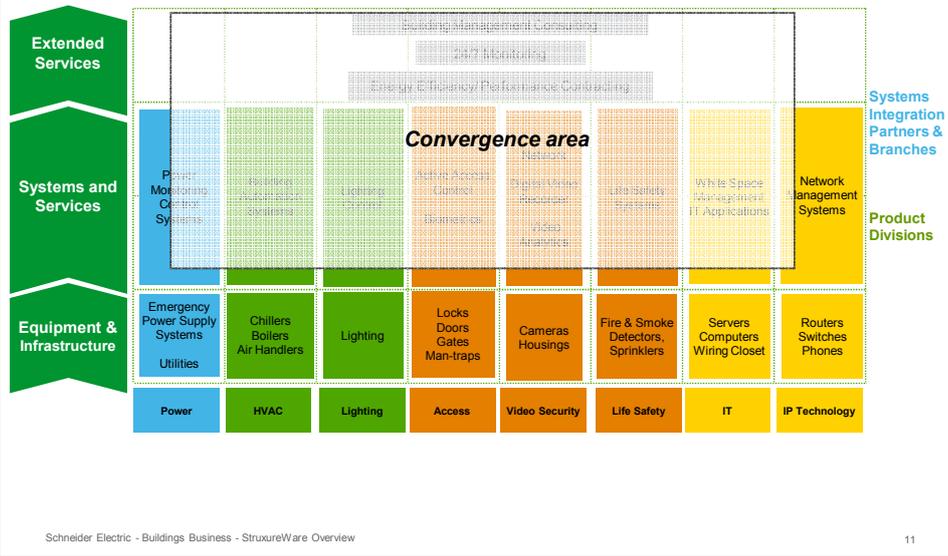
Energy management is the key
to address the dilemma

The life cycle cost of a building



Our integrated systems and comprehensive services
reduce both capital and operational expenses.

The building ecosystem

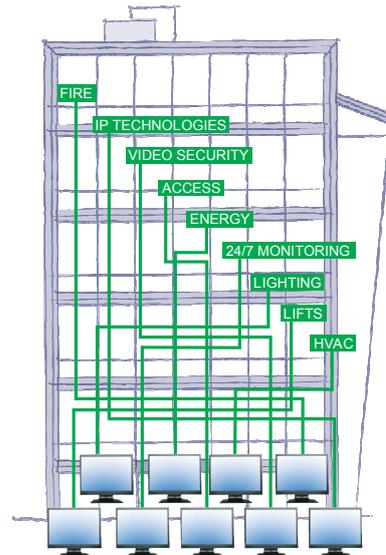


Multiple silo systems in the building

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

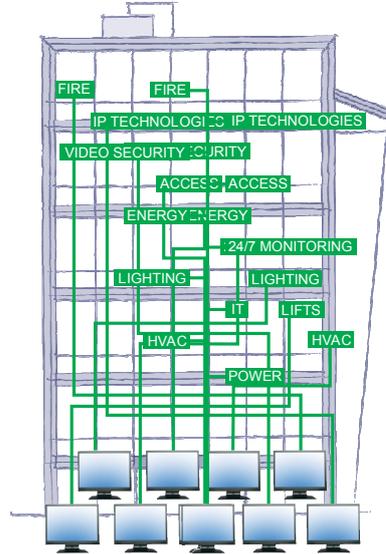
Silo systems add:

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



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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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



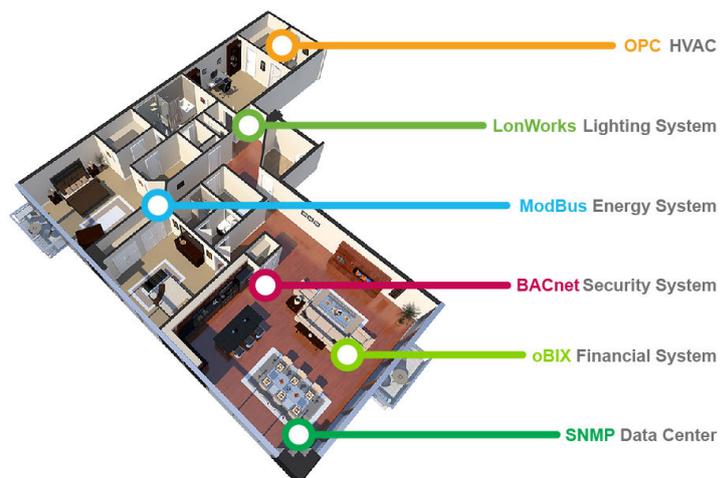
Schneider Electric - Buildings Business - StruxureWare Overview

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Our Mission:

develop a **next generation** building management platform

Buildings are multi-lingual...



...is your BMS?



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

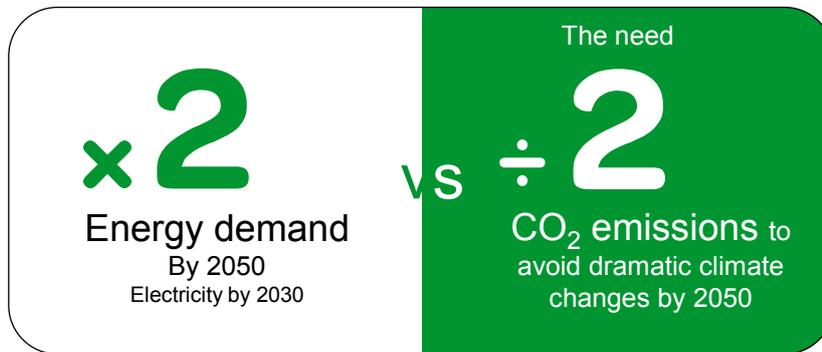
EcoStruxure

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

Offering guaranteed compatibility across key applications

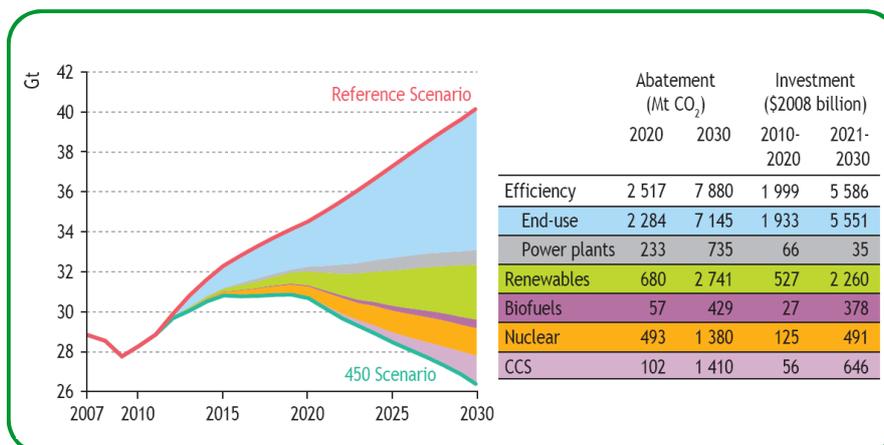
Leveraging open standards across both Schneider Electric
and third party offers

The energy dilemma is here to stay



Energy efficiency is our first priority

Over **50%** of CO₂ reduction will come from energy efficiency

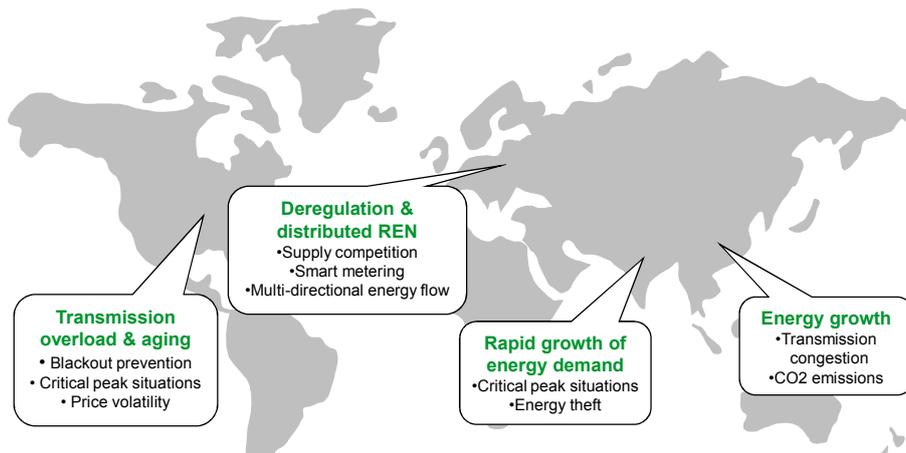


What is smart grid?

- 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

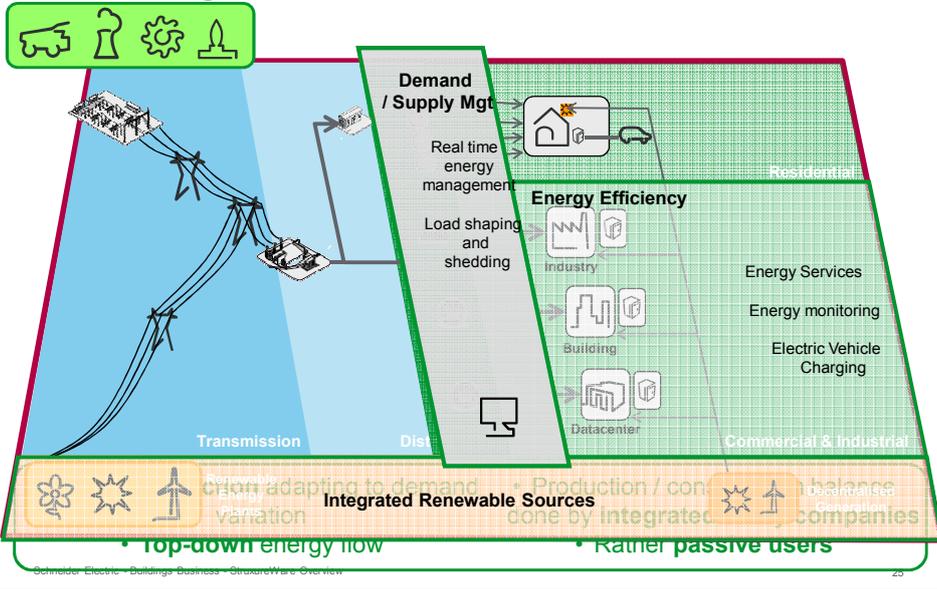


Smart grids are evolving for different reasons



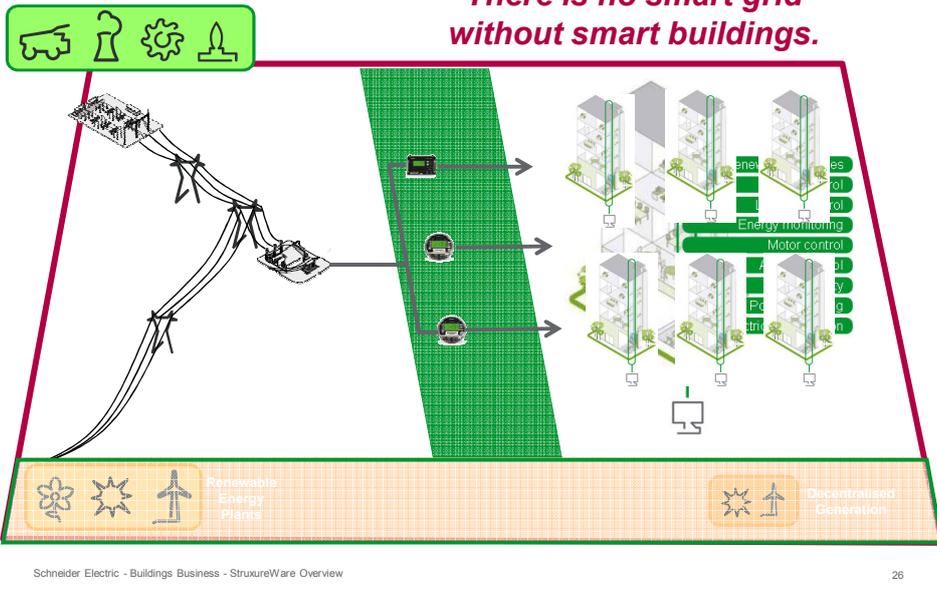
Environment : CO2, Integration of unpredictable Distributed Generation, Energy efficiency
Assets : Aging infrastructure, Cyber-security
Customers : Better customer satisfaction, Improve supply quality

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