

Digitalisation & Energy Efficiency in Building and beyond

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Life Is On



<https://www.schneider-electric.com/en/work/campaign/life-is-on/case-study/marriott-hotel-china.jsp>

Fully digitized buildings , that can sense , think and adapt for extended services to occupants

From grid demand to Prosumer

Distributed Generation



Energy Efficiency

Demand-side Flexibility

EV - Storage



More Reliable & Safe

More Efficient

More Flexible & Comfortable

More Connected & collaborative

More Renewable & Sustainable

GreenOValley – Schneider Electric Grenoble- office building

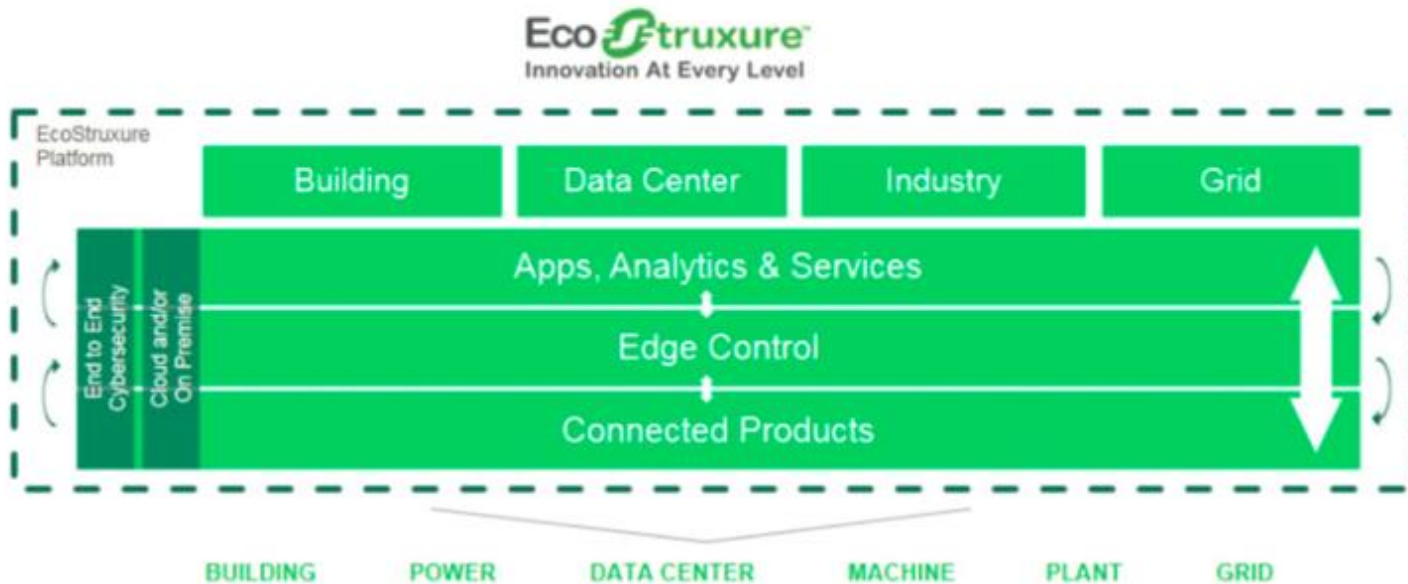
Positive energy – prosumer and smart grid ready



- 26 000 m² – 1500 people
- Consumption : 37 KWh per m² per year (final energy) - 960 MWh per year . BACS with control by zone according to activity
- BIM used at design and operation phase
- Local Generation : 970 MWh per year (4000m² PV and 2 micro wind mill)
- Local storage : battery
- Active Energy management with self consumption and grid export

End to End ,Open & Interoperable architecture and platform

Integrates automation, control , communication , software



Agnostic and interoperable applications –analytics & services

Local real time control providing system safety, efficiency , flexibility

IOT enabled products with embedded intelligence

The multiple benefits of digitalisation

BENEFIT	UP TO	AVERAGE
CapEx		
Engineering costs and time optimization	80%	35%
Commissioning costs and time optimization	60%	29%
Investment costs optimization	50%	23%
OpEx		
Energy consumption savings	85%	24%
Energy costs savings	80%	28%
Productivity	50%	24%
Equipment availability and uptime	50%	22%
Maintenance costs optimization	75%	28%
Sustainability, Speed, and Performance		
CO ₂ footprint optimization	50%	20%
Time to market optimization	20%	11%
Decrease in occupant comfort-related incidents	33%	24%
Return on investment	0.75 year	5.3 years

330 data points developed from a sample repository of 230 customer projects Schneider Electric completed in the last five years across 41 countries.

Policies and regulations shall foster a favourable environment

- Need for trust, acceptance and adoption by stakeholders
- Cybersecurity and data privacy
- Need for common standards and interoperability
- New skills and competencies to be built
- Strong business case to be encouraged with new actors development

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