



MAINFORUM™
2025
Mexico's Automotive
Innovation Network

Sustainable Manufacturing Processes

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Building an efficient and sustainable world

<http://www.youtube.com/watch?v=fNT-9Jf4deU>

<http://www.youtube.com/watch?v=xjKSkME7XWw>

<https://www.youtube.com/watch?v=IXGp0zMioJ4>

Schneider
Electric



Schneider Electric at a glance

The global specialist in energy management

Large company

24

billion € of sales in 2013

41%

of sales in new economies

140 000+

employees in 100+ countries

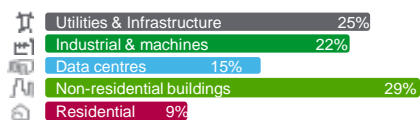
4–5%

of sales devoted to R&D

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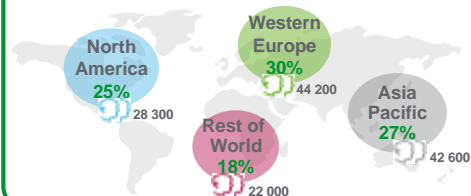
Diversified end markets

FY 2012 Sales
(billion €)



Balanced Geographies

FY 2012 sales
Year-end 2012 employees

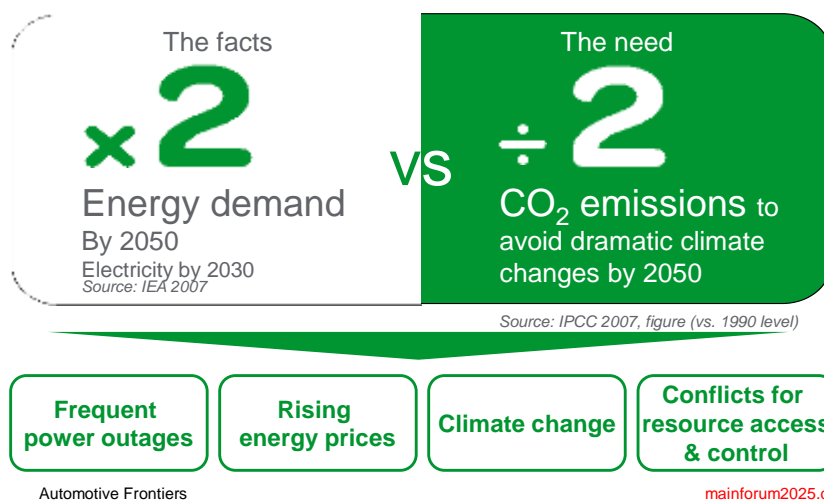


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Tackling the stakes of today and tomorrow to support sustainable manufacturing processes



The energy dilemma is here to stay



Our answer:
Helping people make
the most of their energy



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Energy production
& transmission

Energy Management

• Making energy...
Safe, Reliable, Efficient, Productive and Green

Energy
Usage



...with 30-70% savings everywhere



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Our value proposition for the sector



Energy and sustainability

Managers of renewable energy

If you have a corporation in  ...

- Clear growth targets
- Definite intentions to reduce your environmental impact

...Flexible,

- Heterogeneous business lines
- Diversified geographically
- Diverse manufacturing

...competitive,

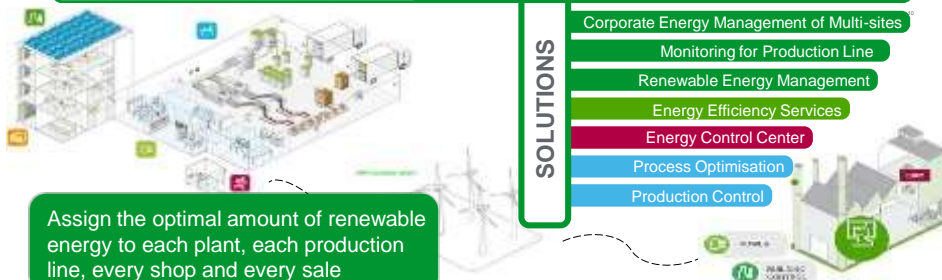
- Great brand loyalty
- High quality standards
- Backup and financial strength

...and Sustainable

- PPA for supply of renewable energy
- Initiatives for energy savings

Based in 

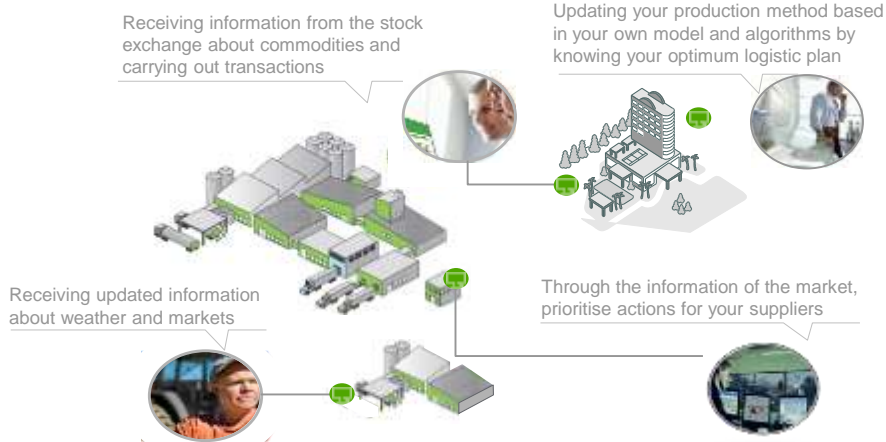
Integral Energy Resource Manager





Supply chain

Systems to manage raw materials and logistics



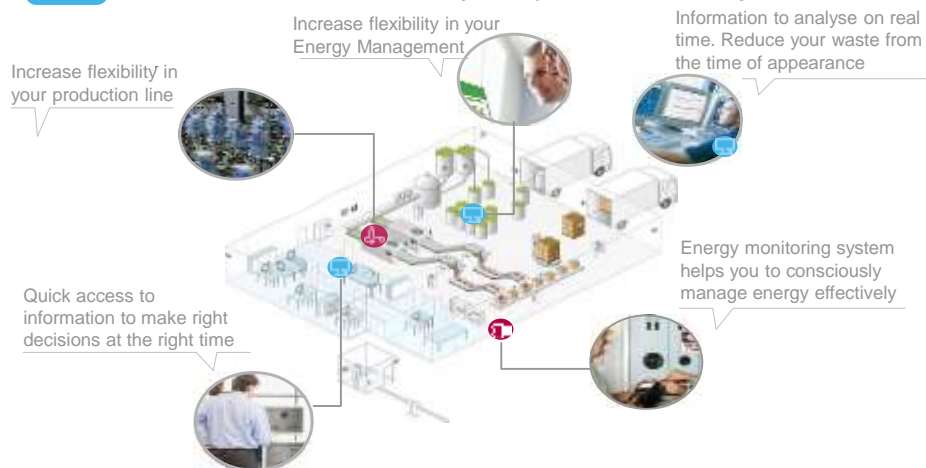
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Manufacturing

Reduce waste and increase your operations flexibility

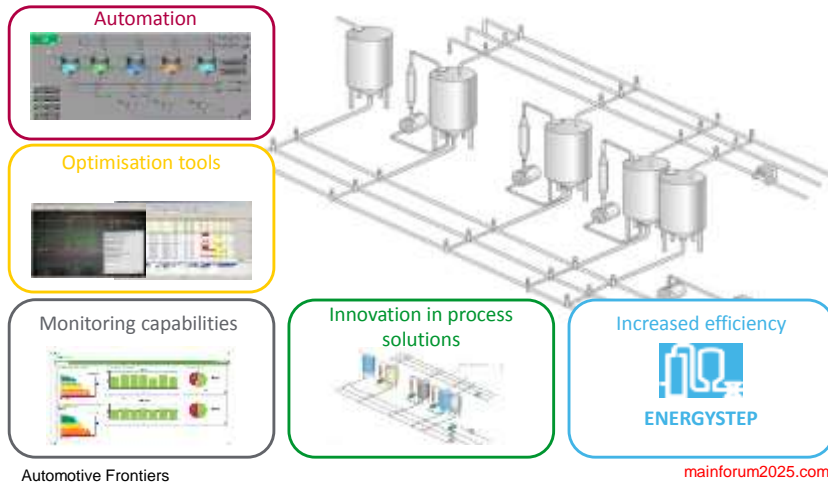


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Manufacturing

Process optimisation



Security

Site security being integral part of your production security

All site integrated in the network
– from lab to your office

Problems detection at high scale
by sophisticated control systems

Secure your plant with rigorous
access control and CCTV systems

Quality assurance – Inspected
at any corner in your plant

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Automation is key

- Drivers

- Safety insurance
- Compliance with regulation
- Manufacturing and maintenance costs reduction
- Downtime reduction
- Flexibility improvement



- Constraints

-  CAPEX
- International supply chain coordination
- Global servicing

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Ford Motor company

“Intelligent meters gather power and processes locally and feed all cloud based energy management system. This allows optimised energy efficiency.”

- **Challenge:** six week time delay existed between month end and utility data reporting at Ford Motor Company®, resulting in missed opportunities for energy reduction

- **achievements:**

- Energy cost savings: Purchasing cost of energy reduced
- Rollactive decision making: Based on real time collected
- Risk mitigation: Financial risk reduced, accurate forecasting



metering and monitoring projects typically save a company 10% of its energy spend. At this rate, the lord's estimated savings is \$1.5 million per year, according to the company.

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Green Mobility

Providing Sustainable solutions for transportation

• Residential and commercial:

- AC, 30kW
- Rechargeable time from 1 to 8 hours
- 11kW (commercial)
- 11kW (residential)
- 11kW certified level
- 11kW length 11 meters
- 11kW authentication



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• Fast charger:

- AC, 30kW
- 11kW battery is recharged in 11 minutes
- 11kW (for external use)
- 11kW certified level
- 11kW length 11 meters
- 11kW authentication



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Electrical



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Major industry trends



Cost pressure



Shift from mechanical to electronics



Reliable suppliers



Technological agreements



Movement to electric & hybrid motors

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Trends and stakes



- High innovation
- Strong brands
- Cost efficiency



- Global success requires global presence



- Cooperation between companies

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Technical trends



- Wireless connectivity
- Information available anytime, anywhere



- Connectivity with machines & partners
- Proper standards



- Strong processes



- Software & firmware
- Safety

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A recognised and awarded commitment

Reference Ethical Stock index and ratings



- Selected in the DJSI World and Europe indexes



- Selected in the "Carbon Performance Leadership Index" (Performance band A)
- Selected in the "Climate Disclosure Leadership Index" with a score of 97/100



- 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

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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



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