EcoStruxure™ Power

Innovation At Every Level

Power Distribution Redefined

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"Connectivity redefines everything, and we have believed in its transformative power for decades. Fifty years ago, we integrated intelligence in machines and automated industrial processes, revolutionizing manufacturing. Twenty years ago, we introduced Open Protocol Ethernet on factory floors — a disruptive move by a group of our forward-thinking engineering mavericks. Today, our EcoStruxure architecture delivers on the real promise of the Internet of Things: connectivity that turns data into operational and energy efficiency across all levels of an enterprise."

—*Jean-Pascal Tricoire, CEO*

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Our technologies ensure that
Life Is On everywhere, for
everyone, and at every moment.

Schneider Electric makes life safe, reliable,
efficient, sustainable, and connected.
Life Is On™ when life is ...

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ENERGIZED

+50% energy consumption by 2050 due to urbanization, industrialization, and digitization[1]

2x faster growth of electricity compared to energy demand by 2040[2]

2.3B people do not have either access or reliable access to electricity[3]

EFFICIENT

3x efficiency needed to solve climate change[4]

82% of the economic potential of energy efficiency in buildings[5]

+50% of untapped energy potential efficiency in industry[5]

CONNECTED

10x more incremental connected devices than people by 2020[6]

30B connected things by 2020[6]

EVERYTHING RUNS ON SOFTWARE

[1] IEA, *WEO 2014*, 2015, New Policies Scenario. [2] IEA, *World Energy Outlook 2014*. [3] IEA, *World Energy Outlook 2012*, internal analysis.
[4] Intergovernmental Panel on Climate Change (IPCC), IEA 2014, 2015, Schneider Internal Analysis.
[5] *World Energy Outlook 2012*, OECD / IEA, Internal Analysis. [6] Cisco, *Internet World Statistics*

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Connectivity that drives business value

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We have an opportunity to co-create the future as the new energy world becomes ...

MORE ELECTRIC

2x

faster growth of electricity compared to energy demand by 2040[1]

MORE DIGITIZED

10x

more incremental connected devices than people by 2020[2]

MORE DECARBONIZED

79%

untapped energy efficiency potential in infrastructure and more than half in industry[3]

MORE DECENTRALIZED

70%

of new capacity additions will be in renewables by 2040[4]

[1] IEA, *World Energy Outlook 2014*
[2] Cisco, *Internet World Statistics*
[3] IEA, *World Energy Outlook 2012*, Internal Analysis
[4] Bloomberg New Energy Finance

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Five IoT trends

By its definition, the Internet of Things (IoT) is simply the inter-networking of physical devices to collect and exchange data via internet protocol (IP). The true power and applicable value of IoT emerges when it is connected with five major technology transformations — ones that are accelerating our capacity to converge OT and IT systems:
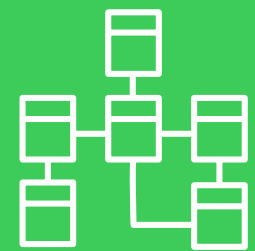
MOBILITY   CLOUD   SENSING   ANALYTICS   CYBER SECURITY

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What is
EcoStruxure?

APPS, ANALYTICS, SERVICES

EDGE CONTROL

CONNECTED PRODUCTS

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EcoStruxure™
Innovation At Every Level

IoT-enabled solutions that drive operational and energy efficiency

EcoStruxure™ architecture and interoperable technology platform brings together energy, automation, and software. It provides enhanced value around safety, reliability, efficiency, sustainability, and connectivity.

In turn, this advancement opens up the digital world to users across key end markets, enabling them to be competitive in today's IoT economy.

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EcoStruxure
for Building

EcoStruxure
for Industry

EcoStruxure
for Grid

EcoStruxure
Power

EcoStruxure
for Data Center

How can you benefit from
EcoStruxure?

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EcoStruxure serves four end markets, with six architectures across three levels of innovation.

A versatile architecture

EcoStruxure is tailored to end markets in which Schneider Electric has decades of deep domain expertise and applied experience: building, data center, industry, and grid.

Three levels of innovation — connected products; edge control; and apps, analytics & services — help drive full IoT integration across these markets. Customers can integrate solutions on premise and/or in the cloud. Each level has built-in cyber security to assure peace of mind across the digital landscape.
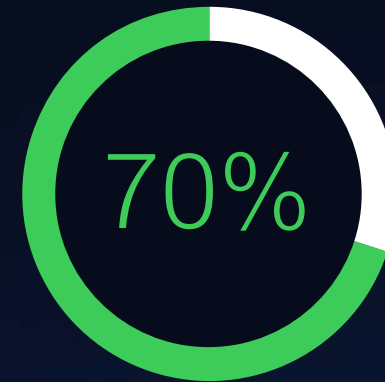
Specialized communities of developers

Our communities of developers, data scientists, and hardware and service partners are creating and/or co-creating solutions and applications that you can use in any combination of the innovation levels.

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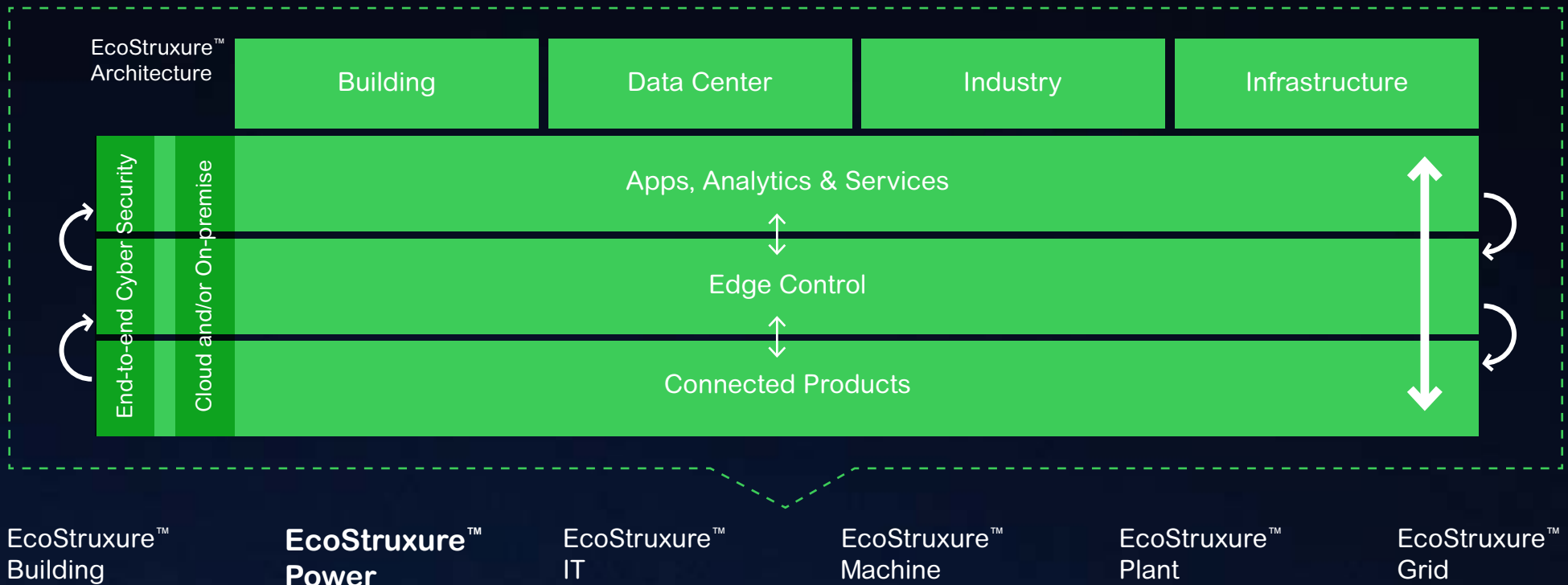
EcoStruxure™
Innovation At Every Level

From sensors to services, our Innovation At Every Level approach improves energy and operational efficiency by tapping the true business value of IoT advancements. We've made mobility, sensing, cloud, analytics, and cyber security technologies meaningful to customers, helping them compete in our IoT economy.

70%

of decision-makers see the business value of IoT*

Schneider Electric IoT 2020 Business Report

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One EcoStruxure architecture, serving four end markets, with six domains of expertise

EcoStruxure™
Architecture

Building	Data Center	Industry	Infrastructure

Apps, Analytics & Services

Edge Control

Connected Products

End-to-end Cyber Security

Cloud and/or On-premise

EcoStruxure™
Building

**EcoStruxure™
Power**

EcoStruxure™
IT

EcoStruxure™
Machine

EcoStruxure™
Plant

EcoStruxure™
Grid

Connected Products:

The Internet of Things starts with the *best things*. Our IoT-enabled best-in-class connected products include breakers, drives, UPSs, relays, sensors, and more. Devices with embedded intelligence drive better decision-making throughout operations.

Edge Control:

Mission-critical scenarios can be unpredictable, so control of devices at the edge of the IoT network is a must. This essential capability provides real-time solutions that enable local control at the edge, protecting safety and uptime.

Applications, Analytics & Services:

Interoperability is imperative to supporting the diverse hardware and systems in building, data center, industry, and grid end markets. EcoStruxure enables a breadth of agnostic applications, analytics & services for seamless enterprise integration.
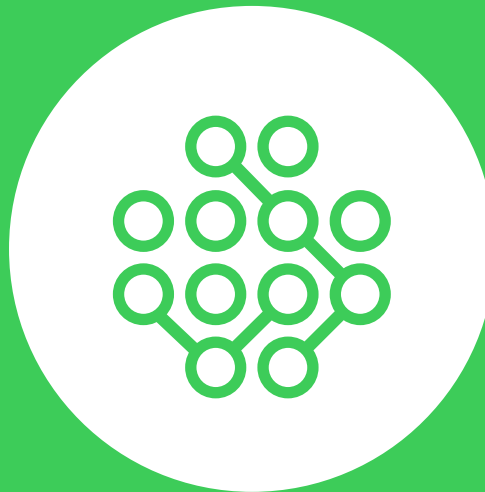
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The EcoStruxure platform

The EcoStruxure platform is the technology backbone of our EcoStruxure architecture. It provides a fundamental set of technology capabilities that allow us to connect the three layers of innovation in IoT-enabled solutions, bridging the IT/OT gap.

The EcoStruxure technology platform enables scalable design and operation of connected systems with best-in-class cyber security built around three core capabilities:

Core technologies for embedded connectivity and intelligence

Interoperable building blocks for smart operations

Infrastructure for cloud-connected digital services

Turn data into action

There is a common thread across all of the EcoStruxure platform's technology capabilities. By bridging IT and OT, EcoStruxure lets customers maximize the value of data. Specifically, it helps them translate data into actionable intelligence and better business decisions.

By bringing together the worlds of energy, automation, and software, EcoStruxure makes the strategic promise of IoT a reality today.
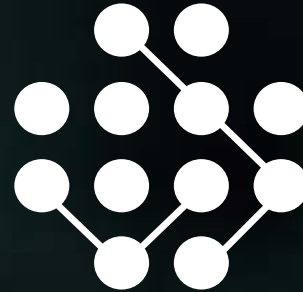
CONNECT

Connect everything from shop floor to top floor.

COLLECT

Capture critical data at every level, from sensor to cloud.

ANALYZE

Convert data into meaningful analytics.

TAKE ACTION

Drive action through real-time information and business logic.

CLOSE THE LOOP

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What is the value
of EcoStruxure?

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EcoStruxure enables Schneider Electric, our partners, and end-user customers to develop scalable and converged IT/OT solutions that:

Maximize energy efficiency and sustainability through smarter systems and real-time, data-driven decisions.

Optimize asset availability and performance through predictive analytics and proactive maintenance.

Enable smart, productive, and profitable operations through reduction of waste and downtime.

Provide mobile insight and proactive risk-mitigation through simulation, situational awareness, and digitization.

Foster open innovation and interoperability through development and partnerships with leading standards organizations and best-in-class technology leaders.

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EcoStruxure™
Innovation At Every Level

Learn more

Discover EcoStruxure™ Power

Discover EcoStruxure - Schneider Electric & University of Rochester Medical Center

Predictive Maintenance Strategy for Building Operations: A Better Approach

The new world of energy in 3D+E

How the Convergence of IT and OT Enables Smart Grid Development

Schneider Electric IoT 2020 Business Report

Give your Electrical System a Voice with EcoStruxure™ Power for Small and Medium Buildings

The Industrial Internet of Things: An Evolution to a Smart Manufacturing Enterprise

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