From smart services to building excellence

EcoStruxure Facility Expert and Facility Advisor
No one knows buildings like you.

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> EcoStruxure empowers you for the future
Power distribution is changing

Electrical distribution is going through an unprecedented transformation. As the demand for power continues to escalate, your customers are looking for cutting-edge digital solutions that will allow them to improve building performance, ensure business continuity, and save money.

They want dynamic, connected, and interactive energy and operations management systems. With EcoStruxure™ Facility Expert and Facility Advisor, you are able to offer a full range of advanced services, grow your business, and provide your customers with leading solutions.
Opportunities for service providers

In today’s digital economy, your customers demand 100 percent uptime. And if problems do arise, they want a quick resolution. Schneider Electric allows you to meet their expectations.

Imagine if you are able to manage your customers’ facilities more effectively by connecting to their buildings and equipment, as well as your team, via your smartphone or tablet. Routine maintenance is easier and troubleshooting is faster, making your operations more reliable, efficient, and cost-effective.
Introducing EcoStruxure Facility Expert and Facility Advisor

EcoStruxure Facility Expert

• Use your digital log book to create QR codes and track your assets for long-term maintenance schedules and task reminders. In one scan, you can not only log and access asset history, documentation, and collaborative information, but also generate inspection and activity reports.

• Collect information from your connected panels, monitor energy consumption and equipment of one or more buildings, and receive alerts with actionable data directly on your mobile device.

EcoStruxure Facility Advisor

Deliver enhanced energy efficiency and equipment performance to your customers. Through the solution’s analytics, web portal, and services, you gain insights into your customers’ energy consumption and can make informed recommendations that help customers reach the highest techno-economic efficiency for their buildings.
Grow your business with smart operations, maintenance, and energy cloud software

Partner with us on a progressive journey to building excellence

1. Improve your efficiency
   • Make repairs faster
   • Boost the efficiency of your teams

2. Expand your offerings
   • Shift to preventative maintenance
   • Set up and fulfill SLAs*

   *Service Level Agreements

3. Enhance your energy services
   • Provide visibility on energy consumption
   • Make recommendations

4. Become a trusted advisor
   • Provide valuable energy savings and boost building performance
   • Leverage analytics to detect usage deviations, unlock energy footprints, and make recommendations backed by Schneider Electric experts
Stay connected to maximize your efficiency

Manage your customers’ facilities more effectively by connecting to their buildings and equipment, as well as to your team, via smartphone or tablet. Routine maintenance is easier and troubleshooting is faster, making your operations more reliable, efficient, and cost-effective. By improving the efficiency of your operations – and your whole team – you can reduce your costs.

Save up to 8 percent on operating expenses

(Manufacturer publication CIAT & Trane)
Stay connected to maximize your efficiency

In case of equipment malfunction, the EcoStruxure Facility Expert mobile app is your dependable partner. Receive notifications and access to event or asset details, and monitor operations from wherever you are. Speed up troubleshooting to:

- Identify equipment status at a glance
- Assess problems based on detailed information
- Scan the QR code for easy access to equipment information
- Access the document repository directly from the field

Make repairs faster  Strengthen the effectiveness of your team
Stay connected to maximize your efficiency

Onsite personnel can count on live support from teammates and experts, and user-friendly graphic interfaces enable quicker understanding and worry-free problem-solving. As soon as issues are resolved, receive notifications, complete event logs with images, and generate operations reports for your customers.

Make repairs faster

Strengthen the effectiveness of your team

- Involve essential team players instantly
- Put solutions into action with speed and confidence
- Store key malfunction data
- Generate reports automatically
Power up maintenance with service contracts

Stay ahead of downtime – and the competition – by offering your customers preventative maintenance and service level agreements. Reduce equipment failures and monitor your customers’ equipment for trending data so you can anticipate and plan maintenance tasks from your smart device. With EcoStruxure Facility Expert, no one knows buildings like you.

- **Shift to preventative maintenance contracts**
- **Set up and fulfill service level agreements (SLAs)**

10% Increase your customers’ business continuity up to 10 percent

(The Service Council publication)
Power up maintenance with service contracts

Take control of your team’s day-to-day activities. EcoStruxure Facility Expert provides everything you need to offer preventative maintenance contracts, optimize your service calls when responding to issues, and prove to your customer that the job is completed to regulatory compliance.

- Long-term maintenance schedules
- Convenient reminders and planning capabilities
- Access to historical equipment data – from assembly to operation – through QR code-based functions

From the field, get quick access to your digital asset log book
Power up maintenance with service contracts

With essential information at your fingertips, you can choose to go onsite, assign a task to a field technician, or postpone intervention until your next maintenance visit. Anticipate the maintenance needs of all or only key assets to avoid failure and meet your SLAs.

- Set up and fulfill service level agreements (SLAs)
- Shift to preventative maintenance contracts

- Alerts with actionable data sent directly to your mobile device
- On-the-spot decision-making tools
- Ongoing access to live updates

Collect information from your connected panels and monitor all your customers’ equipment (cash register, lift, escalator, etc.) to improve business continuity.
Go beyond operations with enhanced energy reporting

When your operations become more reliable, efficient, and cost-effective, you can differentiate your business from the competition. With remote notifications, detailed dashboards and reports, site benchmarking, the ability to track energy consumption and more, EcoStruxure Facility Expert lets you move beyond troubleshooting to offer your customers energy services.

- Provide visibility on energy consumption
- Make recommendations

Help your customers save up to 5 percent off their energy bills

(Navigant Research publication)
Go beyond operations with enhanced energy reporting

Energy monitoring is not just for large buildings anymore. EcoStruxure Facility Expert provides views beyond cost and performance to enhance building efficiency with a set of simple and relevant graphs and charts.

Provide visibility on energy consumption

- With your app, manually collect and register energy data (gas, water, thermal, etc.)
- Get the full picture on energy consumption with aggregated view and multi-site comparison modes
- Set targets and be alerted as soon as they are exceeded
- Monitor power demand and power factors
- Receive monthly scorecards, documenting energy consumption, trends, and results

Make recommendations

Site comparison
Aggregated view on energy consumption and targets
Go beyond operations with enhanced energy reporting

Gain insight and step up to the energy consulting business by ensuring your customers make the most of EcoStruxure Facility Expert’s capabilities:

- **Provide visibility on energy consumption**
  - Benchmark buildings by local performance scale (A to I) and standards (ISO50001, LEEDs, NABERS)
  - Track energy consumption in detail: per usage, zone, and meter
  - Identify deviations and peak contributors
  - Optimize energy budgets and allocate costs

- **Make recommendations**
  - Energy efficiency
  - Power demand per meter
  - Power demand with target
  - Energy costs per tariff period
Become a trusted advisor with advanced building insights

Offering more efficient, reliable, and cost-effective operations puts you in a good position to become your customers’ trusted advisor, ready and able to manage their global operations and energy consumption. Because no one knows buildings like you.

- **Offer your customers enhanced energy efficiency and equipment performance**
  - Decrease your operations costs up to 12 percent
    - (Manufacturer publication CIAT & Trane)
  - Increase your customers’ business continuity up to 15 percent
    - (The Service Council Publication)
  - Reduce your customers’ energy bills up to 25 percent
    - (Navigant Research Publication)

- **Become a Schneider Electric partner and unlock your potential**
Become a trusted advisor with advanced building insights

Leverage EcoStruxure Facility Advisor analytics, web portal, and services to identify your customers’ energy consumption and make recommendations that help customers reach the highest techno-economic efficiency for their buildings.

Offer your customers enhanced energy efficiency and equipment performance

Become a Schneider Electric partner and unlock your potential

Drive measurable energy savings by analyzing your customers’ building performance with pertinent data: building signature, baseload correlation, and power quality measurement.

Monitor equipment and detect performance deviation to avoid breakdowns or extra investment, thanks to data-based decisions.

Provide recommendations and action plans from performance reports and Schneider Electric service advisor support.

Power distribution is changing

Opportunities for service providers

Grow your business

Take a closer look

EcoStruxure empowers you for the future
Become a trusted advisor with advanced building insights

Partner with Schneider Electric and take your business to the next level.

Offer your customers enhanced energy efficiency and equipment performance

Become a Schneider Electric partner and unlock your potential

By partnering with us, you can take advantage of training, certification, and recommendations on cutting-edge technology – and on Schneider Electric solutions and architectures.

As you grow towards offering a range of high-level services in building operations, power management, and energy efficiency, a partnership with Schneider Electric supports your business at every stage and helps you become your customers’ trusted advisor.
Take a closer look

Set off on a progressive journey with Schneider Electric and seize the business opportunities made possible by building digitization.

1. Improve your efficiency
2. Expand your offerings
3. Enhance your energy services
4. Become a trusted advisor

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Take a closer look
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Take a closer look

Watch these tutorials to see how fast and easy asset maintenance can be.

IMPROVE

Simplify operations and improve service efficiency with EcoStruxure Facility Expert. Make repairs faster and boost the efficiency of your teams.
Take a closer look

Watch these tutorials to see how fast and easy asset maintenance can be.

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EXPAND

Expand your offerings by shifting to preventative maintenance and setting up and fulfilling service level agreements (SLAs).

Execute asset maintenance
Fix an asset failure
Take a closer look

Zoom into EcoStruxure Facility Expert’s web portal and energy dashboards.

1. Improve your efficiency
2. Expand your offerings
3. Enhance your energy services
4. Become a trusted advisor

ENHANCE
Enhance your energy services by providing visibility on energy consumption and making recommendations informed by data.

- Site comparison, energy consumption, and targets
- Energy costs per tariff period
- Power demand per meter
- Power demand with target
- Energy efficiency
- Monthly performance
  - Electricity: 68.51 kWh
  - Year to date performance
    - Electricity: 452.8 kWh
  - Building classification: Primary energy consumption

Power distribution is changing opportunities for service providers. Grow your business. Take a closer look. EcoStruxure empowers you for the future.
Take a closer look

Zoom into EcoStruxure Facility Advisor analytics dedicated to energy efficiency.

1. Improve your efficiency
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3. Enhance your energy services
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ADVISE

Become a trusted advisor with EcoStruxure Facility Advisor. Leverage advanced analytics to unlock your customers’ full energy footprint and improve their building efficiency and equipment performance.

Electricity intensity map

Building signature

Baseload
Features per subscription

EcoStruxure Facility Expert and Facility Advisor offer a range of cloud software and services that adapt to your needs.

<table>
<thead>
<tr>
<th>Subscription Features for Operations</th>
<th>Subscription Features for Energy Services</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subscription</strong></td>
<td><strong>Freemium Version</strong></td>
</tr>
<tr>
<td>Create unique asset QR codes and access information in one scan</td>
<td>✓</td>
</tr>
<tr>
<td>Asset status and map localization</td>
<td>✓</td>
</tr>
<tr>
<td>Asset log history and reference document library</td>
<td>✓</td>
</tr>
<tr>
<td>Maintenance plan and task reminders</td>
<td>✓</td>
</tr>
<tr>
<td>Task manager features (e.g. task assignment, notifications)</td>
<td>✓</td>
</tr>
<tr>
<td>One-click intervention reports</td>
<td>✓</td>
</tr>
<tr>
<td>Collaborative features (e.g. chat, information sharing)</td>
<td>✓</td>
</tr>
<tr>
<td>Threshold alarms</td>
<td>✓</td>
</tr>
<tr>
<td>Preconfigured alarms for Schneider Electric assets (LV/MV), custom alarms for 3rd party assets</td>
<td>✓</td>
</tr>
<tr>
<td>Data trending on assets: T°C, running hours, voltage, current</td>
<td>✓</td>
</tr>
<tr>
<td>Substation, SM6 cubicle, and cast resin transformer (Trihal) monitoring and alerts</td>
<td>✓</td>
</tr>
<tr>
<td>Overheating detection: cable connections for SM6 and Trihal</td>
<td>✓</td>
</tr>
<tr>
<td>Cast resin transformer windings (analytics)</td>
<td>✓</td>
</tr>
<tr>
<td>Performance reports: analyses, recommendations, and action plans (semi-annual)</td>
<td>✓</td>
</tr>
<tr>
<td>Service advisor access</td>
<td>✓</td>
</tr>
</tbody>
</table>

*Contact us to confirm availability of offers in your country*

Power distribution is changing

Opportunities for service providers

Grow your business

Take a closer look

EcoStruxure empowers you for the future
Features per subscription

EcoStruxure Facility Expert and Facility Advisor offer a range of cloud software and services that adapt to your needs.

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<thead>
<tr>
<th>Subscription Features for Energy Services</th>
<th>EcoStruxure Facility Expert</th>
<th>EcoStruxure Facility Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subscription</td>
<td>Energy</td>
<td>Energy</td>
</tr>
<tr>
<td>Energy consumption and cost monitoring: main, usage, zone, meter</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Power demand and power factor monitoring</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Alerts for over-target energy consumption</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-site comparisons, consumption aggregation</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Energy site performance vs. standards</td>
<td>✓</td>
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<tr>
<td>Monthly scorecards</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Normalization factors: surface, degree days, open/closed period, customs</td>
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<td></td>
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<tr>
<td>Abnormal consumption detection and alerts: baseload and building signature</td>
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<tr>
<td>Performance reports: analyses, recommendations, and action plans (semi-annual)</td>
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<td></td>
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<tr>
<td>Service advisor access</td>
<td></td>
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</tr>
<tr>
<td>Energy kiosk</td>
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<td>Optional</td>
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</tbody>
</table>

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**Take a closer look**

Power distribution is changing

Opportunities for service providers

Grow your business

EcoStruxure empowers you for the future
EcoStruxure empowers you for the future

EcoStruxure Power gives you a complete solution approach to:

- Deliver more reliable and efficient power
- Protect your assets, processes, and people
- Provide tailored, future-ready solutions for the new digital economy
- Enable new services in energy and operation management
- Create new business opportunities for your company

EcoStruxure has been deployed in 480,000+ sites, with the support of 20,000+ system integrators and developers, connecting over 1.6 million assets under management through 40+ digital services.

As a partner of Schneider Electric, you can grow your business by adding valuable new services to increase customer satisfaction and retention.
Become an EcoXpert

Schneider Electric offers you the opportunity to develop your skills as a service provider in order to sell more advanced services:

- Get familiar with EcoStruxure Facility Expert to improve your maintenance efficiency and join our esteemed network of certified professionals
- Learn how to connect sites and expand your contract offering when you become a certified Connected Power EcoXpert
- Develop your analysis skills further to enhance your level of energy services and advise your customers; climb the ladder of success and reach higher levels of certification
A complete solution with detailed dashboards, energy analysis, and access to the EcoStruxure Facility Expert web portal allows City Hall to identify potential issues based on analysis.

Customer Needs
• Replace old switchboard
• Improve energy consumption traceability

Customer Solution
• Smart Panels
  – Compact NS and Compact NSX circuit breakers with communication
  – Micrologic modules to access energy data
• EcoStruxure Facility Expert
  – Allows monitoring and assessment of site energy performance
  – Provides access to EcoStruxure Facility Expert web portal, with tracking consumption alerts

Customer Outcomes
• Reduced time for installation and commissioning
• Continuous alerts available right after commissioning
• Reports to track potential issues
• Accurate evaluation of energy savings and building performance possible within one month of operation
Case Study #2: Public Buildings – Local Authority France

Customer Needs
• Reduce building operations cost
• Improve energy consumption traceability
• Promote renewable energies and demonstrate commitment to sustainability to citizens

Partner Needs
• Facility manager partner needed to provide additional value beyond maintenance services to win the energy performance contract

Customer Solution
Two EcoStruxure Facility Expert services deployed:
• Facility Expert Energy
  – To monitor multiple energy consumptions, including gas, fuel, electricity, and district heating
• Facility Expert Operations
  – To monitor indoor temperatures and evaluate the impact of ECM
  – To alert technicians in the event of boiler failure

Customer Outcomes
• Reduced design and configuration time
• Significant energy savings and improvement in building operation efficiencies with an ROI of less than two years

Partner Outcome
• Facility manager partner won the energy performance and operation contract
Case Study #3: Child Care Center, France

Detailed analysis reports and access to the Schneider Electric web-based troubleshooting platform allowed our partner to identify issues for the Child Care Center and apply remedies based on real performance data.

Customer Needs
- Occupant complaints due to discomfort
- Risk of non-compliance with child care building regulations
- Concern with undersized heat pump used for heating and cooling
- No data to identify issues and confirm assumptions

Customer Solution
EcoStruxure Facility Advisor service deployed
- Facility Advisor Energy
  - To monitor and accurately assess the building’s energy performance
  - To monitor heat pump performance and status

Customer Outcomes
- 40k€ saved over a two-year period
- Right level of comfort achieved, eliminating occupant complaints
- 33 percent potential energy savings identified
- Heat pump energy consumption reduced 40 percent; life expectancy extended
- Better management of air handling unit

Running mode and energies

<table>
<thead>
<tr>
<th>Energy consumption</th>
<th>Energy production</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,797 kWh</td>
<td>7,662 kWh</td>
</tr>
<tr>
<td>Heater(s) 0%</td>
<td></td>
</tr>
<tr>
<td>Electrical</td>
<td></td>
</tr>
<tr>
<td>Thermal</td>
<td></td>
</tr>
</tbody>
</table>

Energy consumption
- 30 kWh
- 25 kWh

Electrical
- Energy consumed x COP = Thermal energy produced

Daily COP average

<table>
<thead>
<tr>
<th>COP</th>
<th>Outside air temperature (Avg OAT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4.08</td>
</tr>
<tr>
<td>COP</td>
<td>0.93</td>
</tr>
</tbody>
</table>

Avg OAT (°C)
- 6.5
- 2.6
- 7.1

COP: Coefficient of performance
This document presents general, non-binding information regarding the potential value that digitized power distribution products and solutions can bring to the user. Due to varying user situations and goals, Schneider Electric does not warranty or guarantee that the same or similar results represented in this document can be achieved. Please refer to Schneider Electric product and solution catalogs for actual specifications and performance.

Learn more

Take your business to the next level with EcoStruxure Facility Expert – discover more.

There's a lot more to EcoStruxure Power – learn the latest.

Monitor energy, optimize your operations, and more with EcoStruxure Facility Advisor – get started today.

Give your electrical system a voice with Smart Panels – learn more today.

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