Eco Etruxure^{**} Power

CO O truxure

Power

for Large Buildings & Critical Facilities

Digital Applications

Digital Applications by Market Segment for Large Buildings & Critical Facilities

IEC Selection Guide 10/2021

se.com/ww/ecostruxure-power

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Purpose of this Document

Target Audience

This selection guide is intended for certified EcoXpert partners, System Integrators, Specifiers, Electrical distribution designers, and other qualified personnel who are responsible for the design and configuration of power projects.

Objective

The objective of EcoStruxure[™] Power is to offer a range of digital applications to fulfill customers' needs in large buildings & critical facilities such as data centers, large hotels, healthcare and industrial facilities.

Those applications are presented in the <u>EcoStruxure™ Power Design Guide</u>, sorted by value proposition.

The current document is a supplementary guide to the <u>EcoStruxure™ Power Design</u> <u>Guide</u>. It proposes a selection of the most appropriate applications, depending on the targeted segment.

Note: it is recommended that you **download the PDF and open it in Acrobat Reader** to benefit from all the document's navigation features.



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Introduction (1/3)

General Methodology for Designing Digital Applications for Large Buildings and Critical Facilities

Building a digital electrical installation is much easier if you follow the steps below:



Introduction (2/3)

Overview of Digital Applications by Value

Below is a summary of all the applications available in the EcoStruxure[™] Power Design Guide. In order to make them easier to select, they have been grouped according to their benefits.



Introduction (3/3)

Overview of the Market Segments Targeted by the Guide

Select the targeted market segment to find the related recommended applications:

Roll-over the the boxes for more information





Selecting EcoStruxure[™] Power Digital Applications by Market Segment

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How to Use this Section

Each segment is specific and has its own challenges.

- For each segment, this section provides:
- A short segment presentation
- An overview of the main challenges concerning power distribution system design
- An evaluation of the relevance of the EcoStruxure[™] Power digital application for the segment/sub-segment, using the following four-level ranking:

●●● Essential	The EcoStruxure [™] Power application is required by the standard or highly recommended by Schneider Electric for the targeted segment. The proposed solution has a strong added value and either meets an important customer need or contributes to the proper operation of the building, the safety of the occupants or to energy efficiency.
•• Recommended	The proposed solution is not required but can add significant value by meeting a customer need or improving the functioning of the building, the safety of the occupants or energy efficiency.
⊖ Desirable	The EcoStruxure™ Power application meets a customer need, but this is not crucial for the safety of the occupants or the proper functioning of the building in the targeted segment.
NA Not applicable	The EcoStruxure™ Power application does not meet a customer need or is not applicable to the targeted segment.



Summary Table

Click on the image below to open the summary table in PDF format:



Commercial Real Estate (1/2)

Segment Introduction

The world of commercial real estate is changing, driven by expectations for greater energy efficiency, a healthier working environment, and a better occupant experience that helps attract and retain tenants. The recent pandemic has revealed new challenges and demands for optimizing building performance during extended periods of low occupancy and then safely restarting while accommodating new workplace rules.

To support the transition from low to partial or full occupancy, four key areas of action need to be addressed:

- Occupant well-being
- Occupant engagement
- Space management
- Operational efficiency

Power Distribution System Challenges for this Segment

The challenges for commercial real estate power system design:

- Mitigate the risks from electrical sources (e.g. fire, electrical shock) to protect people, goods and buildings
- Avoid/shorten downtimes that decrease the building's operational efficiency
- Cut costs generated by:
- uncontrolled energy expenditures
- unsuitable maintenance and premature equipment end-of-life
- Ensure compliance with standards
- Enable flexibility to reallocate building areas as needed
- · Increase the sustainability of the building and reduce its carbon footprint

Selection Table

EcoStruxure[™] Power provides cybersecure solutions for Commercial Real Estate to improve the safety of buildings and occupants, and to increase operational and maintenance efficiency, and sustainability, while bringing flexibility to maximize the marketability of Commercial Real Estate portfolios.

Commercial Real Estate (2/2)

Selection Table (cont.)

Below are the recommended digital applications:

	COMMERCIAL REAL ESTATE
Safety	
Continuous Thermal Monitoring	•••
Arc Flash Protection	0
Insulation Monitoring	NA
Power Availability	
Electrical Asset Life Cycle Management	••
Asset Performance	0
Electrical Distribution Monitoring & Alarming	•••
Capacity Management	•••
Backup Power Testing	••
Power Event Analysis	0
Circuit Breaker Settings Monitoring	0
Power Quality Monitoring	••
Power Quality Correction	••
Power Source & Load Control	•••
Advanced Protection & Automation	0
Microgrid	••
Efficiency	
Utility Bill Verification	••
Cost Allocation	••
Energy Monitoring	•••
Energy Benchmarking	••
Energy Performance	••
Energy Modeling & Verification	••
Power Factor Correction	• •
Energy Efficiency Compliance	•••
Greenhouse Gas Reporting	•••
Power Quality Compliance	0

••• Essential

• Recommended

o Desirable

NA Not applicable



Consumer Packaged Goods (1/2)

Segment Introduction

The Consumer Packaged Goods (CPGs) segment includes industries that manufacture merchandise that customers use up and replace on a frequent basis. It is split into three main domains:

- Food and Beverage (F&B)
- Life Sciences (LS)
- Household & Personal Care (HPC) (not addressed in this document)

CPG plants usually have different production processes in the same plant, alternating between batch and continuous processes, with different criticality levels.

They must be scalable and flexible to adapt to volatile consumer demand.

Power Distribution System Challenges for this Segment

Below are the challenges in designing power systems for CPG plants:

- Mitigate risks from electrical sources (e.g. fire, electrical shock) to protect people, goods and buildings, complying with international and local standards
- Maximize power availability to enable high production uptime and product quality while limiting operational and maintenance costs. Targeting zero production downtime is key
- Provide means to detect and minimize energy waste
- Enable efficient maintenance to prolong equipment life span
- Enable scalability and flexibility of electrical distribution to adapt to plant reorganizations
- Increase building sustainability and reduce carbon footprint to comply with standards, ensure social responsibility and reinforce the brand image. Integrate renewables and/or co-generation
- Be fully connected with other systems such as processing, production and building management to exchange information and achieve high performance standards

Selection Table

EcoStruxure[™] Power provides cybersecure solutions for the Consumer Packaged Goods industry to improve safety of people and buildings, to increase operational and maintenance efficiency, and sustainability, while enabling scalability and the flexibility of the installation.



Consumer Packaged Goods (2/2)

Selection Table (cont.)

Below are the recommended digital applications:

	CONSUMER PACKAGED GOODS		
	Food and Beverage	Life Sciences	
		Pharmaceutical	
Safety			
Continuous Thermal Monitoring	•••	•••	
Arc Flash Protection	• •	••	
Insulation Monitoring	NA	NA	
Power Availability			
Electrical Asset Life Cycle Management	0	0	
Asset Performance	• •	•••	
Electrical Distribution Monitoring & Alarming	•••	•••	
Capacity Management	0	0	
Backup Power Testing	NA	NA	
Power Event Analysis	0	••	
Circuit Breaker Settings Monitoring	0	0	
Power Quality Monitoring	• •	•••	
Power Quality Correction	• •	••	
Power Source & Load Control	NA	0	
Advanced Protection & Automation	NA	NA	
Microgrid	0	••	
Efficiency			
Utility Bill Verification	0	••	
Cost Allocation	• •	••	
Energy Monitoring	• • •	•••	
Energy Benchmarking	0	••	
Energy Performance	• •	••	
Energy Modeling & Verification	0	0	
Power Factor Correction	• •	••	
Energy Efficiency Compliance	0	0	
Greenhouse Gas Reporting	• •	••	
Power Quality Compliance	0	••	

• Recommended

o Desirable

NA Not applicable

2

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Electro Sensitive (1/2)

Segment Introduction

The Electro Sensitive segment includes industries for which power systems are crucial for the life span and operation of the equipment and/or for the quality of the process.

The sub-segments addressed in this guide are:

- Semiconductor Plants
- Cloud and Service Providers (web giant, colocation, telecommunication)
- Electric Vehicle Battery Plants

Power Distribution System Challenges for this Segment

Electro Sensitive industries face the following challenges in designing their power systems:

- Mitigate risks from electrical sources (e.g. fire, electrical shock) to protect people, goods and buildings, complying with international and local standards
- Maximize power availability to enable high production/operation uptime
- Provide high power quality to maximize process/operation efficiency and product quality
- Cut costs generated by:
 - uncontrolled energy expenditures
 - unsuitable maintenance and premature equipment end-of-life
- Increase process/building sustainability and reduce carbon footprint to comply with standards, ensure social responsibility and reinforce the brand image
- Enable scalability and flexibility of electrical distribution to adapt quickly to plant reorganizations and fluctuations in demand

Selection Table

EcoStruxure[™] Power provides cybersecure solutions for the Electro Sensitive segment to improve the safety of the building and to secure operational and maintenance efficiency with specific control of power quality. It also improves sustainability, while enabling the scalability and flexibility of the installation to quickly adapt to customer needs.



Electro Sensitive (2/2)

Selection Table (cont.)

Below are the recommended digital applications:

	ELECTRO SENSITIVE					
	Semi conductor Plant	r Cloud and Service Provider		Semi conductor Cloud and Service Plant	ovider	EV Battery Plant
	_		Data Center		_	
		Web Giant	Colocation	Telecoms		
Safety						
Continuous Thermal Monitoring	•••	•••	•••	•••	•••	
Arc Flash Protection	• •	•••	••	0	• •	
Insulation Monitoring	NA	NA	NA	NA	NA	
Power Availability						
Electrical Asset Life Cycle Management	0	0	0	0	0	
Asset Performance	• •	• •	• •	• •	•••	
Electrical Distribution Monitoring & Alarming	•••	•••	•••	•••	•••	
Capacity Management	•••	•••	•••	•••	•••	
Backup Power Testing	• •	•••	•••	•••	• •	
Power Event Analysis	•••	•••	•••	• •	•••	
Circuit Breaker Settings Monitoring	• •	••	••	• •	• •	
Power Quality Monitoring	•••	•••	•••	•••	•••	
Power Quality Correction	•••	••	••	• •	•••	
Power Source & Load Control	• •	•••	•••	•••	•••	
Advanced Protection & Automation	•••	•••	0	0	•••	
Microgrid	0	••	• •	• •	0	
Efficiency						
Utility Bill Verification	0	••	••	••	0	
Cost Allocation	0	0	•••	0	0	
Energy Monitoring	•••	•••	•••	••	•••	
Energy Benchmarking	•••	•••	•••	••	••	
Energy Performance	• •	•••	•••	•••	•••	
Energy Modeling & Verification	• •	0	0	0	•••	
Power Factor Correction	0	0	0	0	0	
Energy Efficiency Compliance	• •	•••	•••		0	
Greenhouse Gas Reporting	• •	•••	•••	•••	•••	
Power Quality Compliance	• •	•••	•••	•••	0	

Recommended

o Desirable

NA Not applicable

2

S

Healthcare (1/2)

Segment Introduction

Healthcare organizations are facing growing challenges related to ensuring patient safety and the resilience of the infrastructure, while guaranteeing the efficiency and sustainability of their installation.

The following buildings are addressed in this guide:

	Building composition	Building capacity	Electrical configuration
300 Bed Hospital	1 Building + Emergency facility	5 Operating theaters + 2 Intensive care units	2 MV transformers
800 Bed Hospital	2 Buildings + Emergency facility	15 Operating theaters + 5 Intensive care units	4 MV transformers
2000 Bed Hospital	3 Buildings + Emergency facility + Imaging center	30 Operating theaters + 10 Intensive care units	6 MV transformers

Power Distribution System Challenges for this Segment

Irrespective of the size of the hospital, the challenges in designing the power system are globally the same:

- Mitigate risks from electrical sources (e.g. fire, electrical shock)
- Reinforce power resilience; avoid/shorten downtimes that:
 - may put patients' lives at risk, more particularly in group 2 locations
 - decrease the operational efficiency of the building
- Cut costs generated by:
 - uncontrolled energy expenditures
 - unsuitable maintenance and premature equipment end-of-life
- Ensure compliance with standards (e.g. IEC 60364-7-710 that defines the specific requirements of electrical installations in medical locations)
- Increase the sustainability of the building and reduce its carbon footprint

However, the larger the hospital, the more it needs a digital architecture to supervise the operation and maintenance of the building so as to improve safety, power availability and efficiency.

Selection Table

EcoStruxure[™] Power provides solutions for Healthcare/Hospitals to improve the safety of the building according to the main standards (e.g. IEC 60364-7-710), with specific focus on downtime avoidance. It also improves operational and maintenance efficiency, cost control and sustainability.



Healthcare (2/2)

Selection Table (cont.)

Below are the recommended digital applications:

	HEALTHCARE		
	Hospital		
	Small	Medium	Large
Safety	Sou Beas	ouo Beas	2000 Beus
Continuous Thormal Monitoring			
Arc Flash Protection	••	••	••
Insulation Monitoring	•••	•••	•••
Power Availability			
Electrical Asset Life Cycle Management	••	0	0
Asset Performance	0	••	••
Electrical Distribution Monitoring & Alarming	•••	•••	•••
Capacity Management	• •	• •	•••
Backup Power Testing	•••	•••	•••
Power Event Analysis	0	• •	• •
Circuit Breaker Settings Monitoring	0	••	••
Power Quality Monitoring	••	• •	•••
Power Quality Correction	• •	••	• •
Power Source & Load Control	•••	•••	
Advanced Protection & Automation	NA	NA	NA
Microgrid	0	0	••
Efficiency			
Utility Bill Verification	0	••	• •
Cost Allocation	0	• •	••
Energy Monitoring	•••	•••	•••
Energy Benchmarking	0	0	0
Energy Performance	0	• •	••
Energy Modeling & Verification	0	••	••
Power Factor Correction	• •	• •	••
Energy Efficiency Compliance	••	• •	••
Greenhouse Gas Reporting	••	• •	••
Power Quality Compliance	••	••	••

Recommended

o Desirable

NA Not applicable



Hotels (1/2)

Segment Introduction

While controlling CAPEX and OPEX to ensure financial profitability, hotels must deliver exceptional comfort as well as convenience and provide guests with an intuitive and customized experience to enhance loyalty and increase revenue.

Guests, on a business trip or on holiday, may arrive and leave at any hour of the day or night, any time of the year. Therefore, hotels must operate 24 hours a day, 365 days a year.

A customized experience is even more essential in the Large and/or Luxury Hotels that are addressed in this guide. Large and/or Luxury Hotels typically have the following configuration:

- One or more buildings with fewer than 10 floors
- Plot size of over 20,000 m²
- More than 700 rooms
- Up to 20 MVA required power

Power Distribution System Challenges for this Segment

Below are the challenges in designing power systems for Large and/or Luxury Hotels:

- Mitigate risks from electrical sources (e.g. fire, electrical shock) to protect guests, staff and the building, according to local and international standards
- Avoid/shorten downtimes that affect the operational efficiency of the building and guest satisfaction
- Propose solutions to cut costs generated by:
 - uncontrolled energy expenditures
 - unsuitable maintenance and premature equipment end-of-life
- Increase the sustainability of the building and reduce its carbon footprint to comply with standards, ensure social responsibility and reinforce the brand image, and integrate renewables and/or co-generation
- Be fully connected with other systems such a Building Management System to exchange information and achieve high performance standards

Selection Table

EcoStruxure[™] Power provides cybersecure solutions for Large and/or Luxury Hotels to improve safety of people as well as operational and maintenance efficiency with specific focus on downtime avoidance and energy cost reduction. It improves sustainability and enables integration of renewables and/or co-generation. It also enables connection to a Building Management System.



HOTELS

Hotels (2/2)

Selection Table (cont.)

Below are the recommended digital applications:

	Large and/or Luxury Hotel	
Safety		
Continuous Thermal Monitoring	•••	
Arc Flash Protection	0	
Insulation Monitoring	NA	
Power Availability		
Electrical Asset Life Cycle Management	••	
Asset Performance	0	
Electrical Distribution Monitoring & Alarming	•••	
Capacity Management	••	
Backup Power Testing	•••	
Power Event Analysis	0	
Circuit Breaker Settings Monitoring	0	
Power Quality Monitoring	• •	
Power Quality Correction	0	
Power Source & Load Control	0	
Advanced Protection & Automation	NA	
Microgrid	••	
Efficiency		
Utility Bill Verification	••	
Cost Allocation	••	
Energy Monitoring	•••	
Energy Benchmarking	••	
Energy Performance	0	
Energy Modeling & Verification	0	
Power Factor Correction	••	
Energy Efficiency Compliance	••	
Greenhouse Gas Reporting	••	
Power Quality Compliance	0	

- Recommended
- o Desirable
- NA Not applicable



2

1

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Transportation (1/2)

Segment Introduction

The Transportation segment includes companies that provide services to move people or goods, as well as the associated infrastructure.

One challenge for this industry is to provide the best travel experience with on-time and smooth transportation.

Alongside this, it must also make a tangible contribution to global efforts to reduce greenhouse gas emissions.

In this guide, we address the following sub-segments:

- Airports
- Railways & Urban Transportation (including metro, light rail, tramway, buses)
- Ports (including goods and industrial ports, passenger ports, naval bases, shipyards)

Power Distribution System Challenges for this Segment

Irrespective of the means of transportation, the challenges in designing power systems are similar:

- Mitigate risks from electrical sources (e.g. fire, electrical shock) to protect passengers, staff and installations, complying with international and local standards
- Avoid/shorten downtimes that affect operational efficiency and passenger satisfaction
- Propose solutions to cut costs generated by:
 - uncontrolled energy expenditures
 - unsuitable maintenance and premature equipment end-of-life
- Increase the sustainability of the installation and reduce its carbon footprint to comply with standards, ensure social responsibility and reinforce the brand image with green mobility (e.g. replacing fuel with electricity in ports)
- Enable scalability and flexibility of electrical distribution to adapt to installation modifications
- Provide a centralized view/management of the condition and operation of electrical equipment, in connection with other systems like the Building Management System which manages HVAC systems, lighting systems, hydraulic services, fire services, etc.

Selection Table

EcoStruxure[™] Power provides cybersecure solutions for Transportation to improve the safety of people and installations as well as operational and maintenance efficiency with specific focus on downtime avoidance and energy cost reduction. It improves sustainability and enables integration of renewables and/or co-generation. It also enables connection to a Building Management System.



Transportation (2/2)

Selection Table (cont.)

Below are the recommended digital applications:

	TRANSPORTATION			
	Airports	Railways and Urban Transportation	Ports	
Safety				
Continuous Thermal Monitoring	•••			
Arc Flash Protection	••	0	0	
Insulation Monitoring	••	• •	NA	
Power Availability				
Electrical Asset Life Cycle Management	0	0	0	
Asset Performance	••	• •	••	
Electrical Distribution Monitoring & Alarming	•••		•••	
Capacity Management	••	• •	••	
Backup Power Testing	•••	• •	0	
Power Event Analysis	•••	• •	••	
Circuit Breaker Settings Monitoring	••	0	0	
Power Quality Monitoring	••		••	
Power Quality Correction	••	• •	••	
Power Source & Load Control	•••	•••	•••	
Advanced Protection & Automation	••	• •	••	
Microgrid	••	• •	••	
Efficiency				
Utility Bill Verification	••	• •	••	
Cost Allocation	•••	• •	0	
Energy Monitoring	•••	•••	•••	
Energy Benchmarking	0	• •	••	
Energy Performance	••	• •	••	
Energy Modeling & Verification	••	• •	••	
Power Factor Correction	••	• •	•••	
Energy Efficiency Compliance	••	• •	••	
Greenhouse Gas Reporting	••	• •	••	
Power Quality Compliance	••	••	0	

• Recommended

o Desirable

NA Not applicable



Water Wastewater (1/2)

Segment Introduction

This segment concerns industries related to water, from potabilization to recycling:

- Water treatment plants
- Wastewater treatment plants
- Desalination plants
- Water distribution networks
- Wastewater collection networks
- Water resources solutions

In addition to minimizing the impact on the environment and controlling costs, an important challenge for this segment is to ensure the uptime of the process, as downtimes are not only critical for customer satisfaction, but also for process quality and spillage avoidance.

Power Distribution System Challenges for this Segment

Below are the challenges in designing power systems for Water Wastewater installations:

- Mitigate risks from electrical sources (e.g. fire, electrical shock) to protect people and installations, complying with international and local standards
- · Avoid/shorten downtimes that affect operational efficiency
- Propose solutions to cut costs generated by:
 - uncontrolled energy expenditures
 - unsuitable maintenance and premature equipment end-of-life
- Increase the sustainability of the process or the building and reduce the carbon footprint to comply with standards, ensure social responsibility and reinforce the brand image
- · Provide a centralized view/management of the condition and operation of the electrical equipment

Selection Table

EcoStruxure[™] Power provides cybersecure solutions for Water Wastewater applications to improve the safety of people and installations, to secure operational and maintenance efficiency with specific focus on downtime avoidance and energy cost reduction, and to increase sustainability.









Water Wastewater (2/2)

Selection Table (cont.)

Below are the recommended digital applications:

	WAIER WASTEWATER		
	WWW		
Safety			
Continuous Thermal Monitoring	•••		
Arc Flash Protection	••		
Insulation Monitoring	0		
Power Availability			
Electrical Asset Life Cycle Management	0		
Asset Performance	••		
Electrical Distribution Monitoring & Alarming	•••		
Capacity Management	NA		
Backup Power Testing	0		
Power Event Analysis	0		
Circuit Breaker Settings Monitoring	0		
Power Quality Monitoring	••		
Power Quality Correction	•••		
Power Source & Load Control	•••		
Advanced Protection & Automation	0		
Microgrid	••		
Efficiency			
Utility Bill Verification	0		
Cost Allocation	NA		
Energy Monitoring	••		
Energy Benchmarking	••		
Energy Performance	••		
Energy Modeling & Verification	0		
Power Factor Correction	••		
Energy Efficiency Compliance	0		
Greenhouse Gas Reporting	••		
Power Quality Compliance	0		

••• Essential

• Recommended

o Desirable

NA Not applicable



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Useful Documentation

Design Guide



Digital Applications for Large Buildings and Critical Facilities

The Digital Applications Design Guide provides comprehensive details on the building blocks of EcoStruxure™ Power: the IoT applications are driven by a software layer to control the traditional electrical distribution infrastructure.

Developed to help engineering consultants and designers, this guide is an invaluable resource for specifying, designing and prescribing EcoStruxure[™] Power architectures capable of performing one or more of the business-driven applications described within.



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https://go.schneider-electric.com/WW_202004_Digital-Applications-for-Large-Buildings-and-Critical-Facilities_EA-LP.html



Useful Links

Web Portals



EcoStruxure™ Power Landing Page

Learn more about EcoStruxure Power, Schneider Electric's digital solution for electrical distribution to help improve electrical safety, power availability, efficiency and cybersecurity. Get access to customer testimonials, useful resources and more!







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EcoXpert[™] Partner Program

The Implementation Arms of EcoStruxure[™] all over the World



Who Are the EcoXperts?

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EcoXpert

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More than 4,000 EcoXpert partners in 74 countries

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- Power Distribution & Management (5 badges)
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Notes

Notes



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As standards, specifications, and designs change from time to time, please ask for confirmation of the information given in this publication.

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