



**Automation Companies Directory**



## About the GIMELEC Hydrogen Commission

GIMELEC Hydrogen Commission brings together more than 50 manufacturers and solution providers active across the entire hydrogen value chain, from production to transport, storage and use (industry, mobility, H<sub>2</sub>-to-Power, etc.). Their solutions allow project developers to optimize the operation, safety, costs and environmental footprint of hydrogen installations.

<https://gimelec.fr/hydrogene>



## About this guide

This publication is intended for project developers and integrators. It has been redacted by GIMELEC as part of its partnership with France Hydrogène. **The [first part](#) is a "white paper"** identifying the challenges and constraints for automation across the hydrogen value chain; the second part presents the solutions to meet them and is a directory of GIMELEC companies.

GIMELEC companies offer solutions for electrolyser power supply, automation and instrumentation. This part of the guide is dedicated to automation for the hydrogen sector. Find the two other sections at the following [link](#).



## About GIMELEC

GIMELEC brings together companies from the French electronics and digital sector. Our 210 members design, manufacture and deploy electrification, automation and digitalisation solutions for industry, buildings, mobility, energy and digital infrastructures.

<https://gimelec.fr>

# GIMELEC Hydrogen Guide reading grid

A 2-part publication to meet the challenges of power supply for electrolysis:

White paper



**White Paper:** What are the automation challenges for the hydrogen sector?

**Objective:** To present the advantages of automation for the various stakeholders (reduction of costs and environmental footprint, safety, scale-up, control...), the range of technologies and how they are implemented on a project.



GIMELEC directory (this document)

For each company of this document

A global presentation page of the company and its offer, with operational contacts.



The screenshot shows a company profile for Piz. It includes sections for 'Who we are?', 'Product range', and 'Benefits at a glance'. The 'Benefits at a glance' section lists: Control and monitoring of all safety-related functions; Management and monitoring of safety functions such as pressure, temperature, current, voltage and leak, gas and flame detection; Access Management and security; Certified hardware: PHOZSmart 2 and PIS 4000 up to SIL 3 certified in accordance with EN IEC 61511, satisfy the requirement according to EN IEC 61508; Intuitive software tool; Our solutions for the hydrogen industry: Hydrogen - Safe and Secure monitoring, SIL 3E.

A focus page on its hydrogen solutions.



The screenshot shows a grid of solutions and case studies. The 'SOLUTIONS' section includes: SCADA systems, 3D simulators, Safety and redundant PLC, IES motors and inverters, Data analysis and learning AI solutions, and Energy saving solutions. The 'CASES STUDIES' section includes: Local or remote visualization and Safety solutions for distribution.

An overview of how companies position themselves on the automation diagram presented on the white paper.



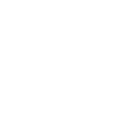
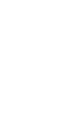
Company's offers are highlighted in blue.

**NB: some cases have hypertext links shown by this pictogram.**

## GIMELEC H<sub>2</sub> COMMITTEE : Solution Providers



### Company pages – summary

5	ABB		17	PILZ	
8	FESTO		20	Schneider Electric	
11	Mitsubishi Electric		23	Siemens	
14	Phoenix Contact		26	Weidmüller	



## Who we are?

ABB is a technology leader in electrification and automation, enabling a more sustainable and resource-efficient future. The company's solutions connect engineering know-how and software to optimize how things are manufactured, moved, powered and operated.

ABB is collaboratively joining forces with customers and partners to develop new projects, opportunities, and technologies, building a resilient hydrogen ecosystem for a sustainable future. This involves enhancing the competitiveness of hydrogen projects through reliable process designs and implementing comprehensive electrical and automation technologies.

ABB's broad scope encompasses the full hydrogen value chain from production, transportation, storage to distribution and end-uses. We are collaborating with partners to create the new Hydrogen ecosystem.

## Track-record in hydrogen

ABB brings this unique combination of experience, expertise and vision to the hydrogen industry - with 130 years of innovation history, 110,000 employees in over 100 countries and more than 50 years in the energy sector:

- Pioneering technology, enabling energy efficient and low carbon operations across traditional industries.
- Proven integration and project execution expertise, proven track record of integrating and executing complex projects, technology and engineering partners globally.
- New energy models, supporting development of new and renewable energy.
- Committed to a clean energy future, strong capabilities in delivering renewables projects and a solid commitment to helping all customers transition to cleaner energy future.

**CONTACTS:** ■ ■ Nicolas Durand [nicolas.durand@fr.abb.com](mailto:nicolas.durand@fr.abb.com)

## Product range

At ABB, we offer solutions that digitalize, automate and electrify industry to ensure safe, smart and sustainable operations :

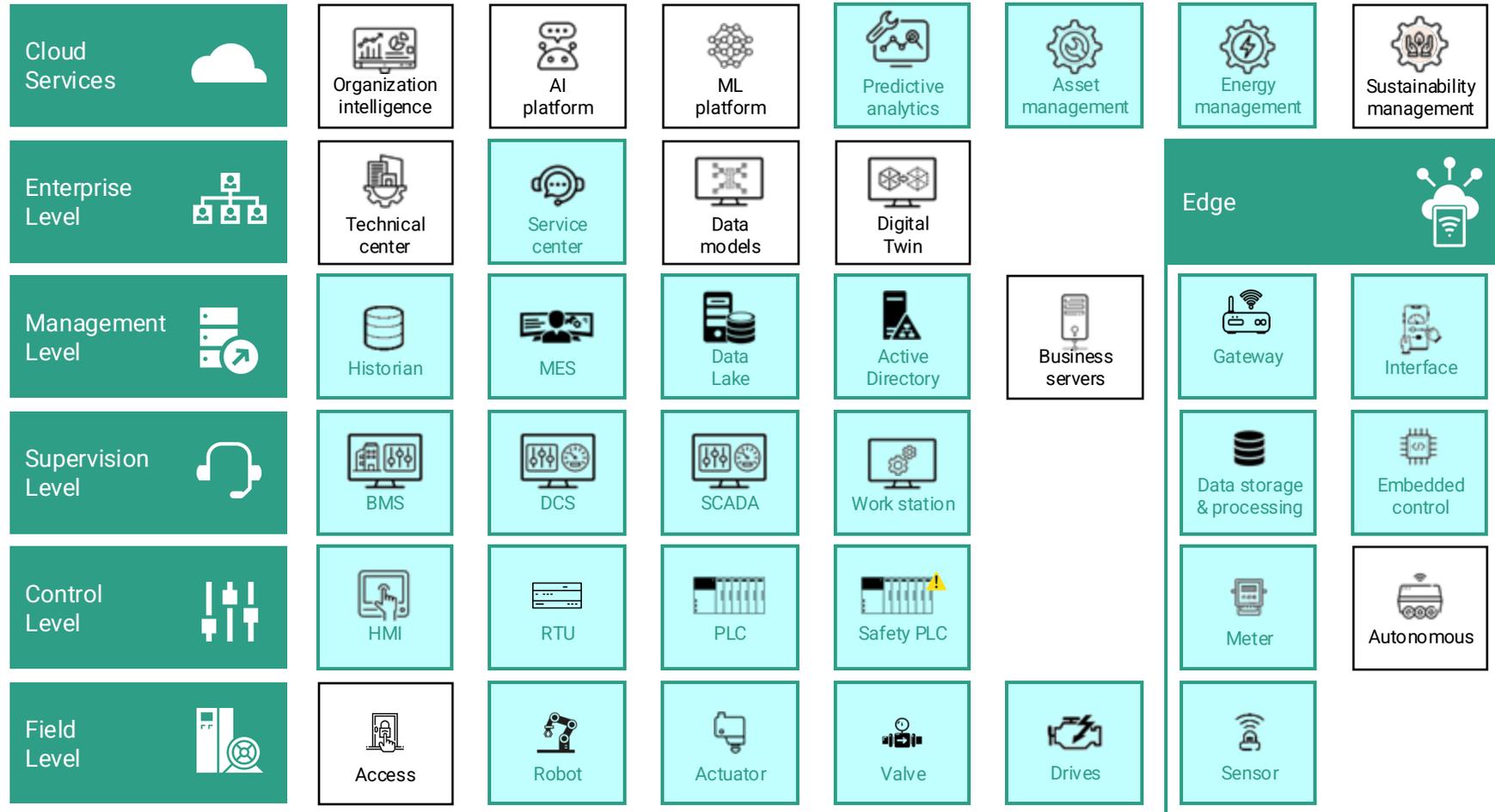
- Integrated System: Electrification with automation, e-House (shelter or container) or skids with rectifiers or electrical switchboard, and/or control system
- Automation solution, Process control system, Safety system, Power management system, Centralized and remote-control room
- Digital solution: Energy management System, Edgenius Data Analytics, Manufacturing Operation Manager, Asset management including condition monitoring & predictive maintenance
- Cybersecurity services
- Remote monitoring and operation
- Service throughout the lifecycle of the project : support pre-design/FEED through installation, commissioning and ongoing support will ensure continuity over the life of the project.

### Examples of cases:

- [ABB to install control solution for the automation of Lhyfe's first green hydrogen clean energy production project](#)
- [ABB and Hydrogen Optimized to explore development of large-scale green hydrogen production systems](#)
- [Towards a sustainable future for Japan with ABB automation and power supporting its energy transition](#)



## Product & services scope



## Solutions for hydrogen

### SOLUTIONS



#### Integrated System

Electrification with automation, e-House (shelter or container) or skids with rectifiers or electrical switchboard, and/or control system



#### Automation Solution

Process control system, Safety system, Power management system, Centralized and remote-control room



#### Digital Solution

Energy management System, Edgenius Data Analytics, Manufacturing Operation Manager, Asset management including condition monitoring & predictive maintenance



#### Cybersecurity services



#### Remote monitoring and operation



#### Service throughout the lifecycle of the project

Pre-design/FEED through installation, commissioning and ongoing support

### CASES STUDIES



#### Automation smart charging for city buses

To ensure a healthy, mobility-friendly city environment, ABB has implemented an intelligent recharging solution for the city of Valence. Intelligent charging monitoring and control, Charging 100% of the e-Bus at a time, Charging reports, Using affordable electricity prices. Prevent malfunctions in the event of events, Ensure grid power limitation

Ready-to-use solution to manage other e-Buses (one of the largest e-Bus depots in the future (AURA region), use of external renewable solar energy, such as PV,...).



#### Largest renewable hydrogen project in Europe

ABB is collaborating with Lhyfe, a global pioneer in renewable hydrogen production, and Skybom, a world leader in renewable energies, to jointly realize and optimize one of Europe's most ambitious renewable hydrogen projects, SouthH2Port.

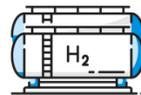
Powered by Skybom's planned 1 GW offshore wind farm, the plant in Söderhamn, Sweden, will produce around 240 tonnes of hydrogen a day, equivalent to around 1.8 million barrels of oil a year.

## Who are we?

Festo has been a world leader in pneumatic and electric automation solutions for 100 years.

Our long-standing expertise in all industrial sectors and our worldwide presence enable us to meet the highest demands of our customers all over the world.

**As a company committed to sustainability and to reducing carbon emissions, Festo is positioned as the supplier of choice for the automated production & distribution of green hydrogen.**



## Our expertise in hydrogen

Benefit from Festo's decades of proven expertise in **the process industry** : our wide range of solutions dedicated to the control of liquids and gases is suitable for hydrogen in all stages of its value chain, from production to storage and distribution.

We provide our customers with **pre-assembled, ATEX-certified solutions**, using reliable, dedicated products and **SIL-compliant** safety loops.

## All-round solution-provider

Based on your individual needs, Festo designs and offers tailor-made automation solutions dedicated to **hydrogen refueling stations, hydrogen compressor stations, fuel cell production and electrolyzers**, as well as innovative digital custom solutions for **real-time data monitoring**.

Festo's **process range** is particularly powerful and suitable for all applications in hydrogen production:

H2-conform **SIL certified**  
according IEC 61508



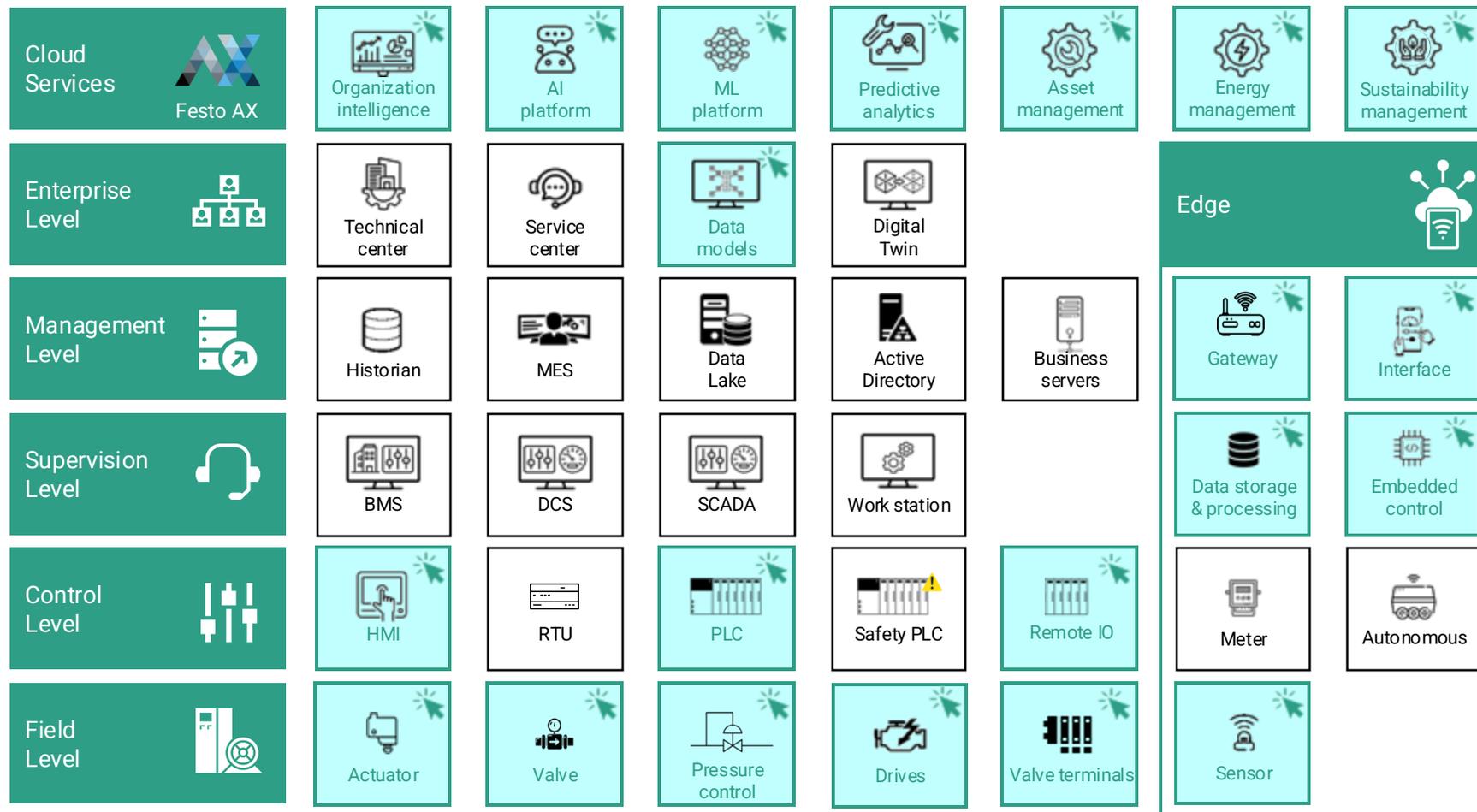
Positioners, solenoid valves, valve terminals, compressed air preparation or an expandable range of tubes - our products are robust and suitable for both hydrogen production and processing.

As your automation partner, **we help you design** your automated system to produce and distribute green hydrogen **efficiently and cost-effectively**.

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 Arnaud BANSON [arnaud.banson@festo.fr](mailto:arnaud.banson@festo.fr)

## Product & services scope



## Solutions for hydrogen

### Decentralized control

Compatible with all systems (Profinet, Ethernet IP, EtherCAT, Modbus TCP). Connect up to 80 modules. Easy to set up and configure with IO-Link.

**Guide: How to choose the right automation concept for H2 production**



### High-performance functionalities

Position control, movement efficiency, tubes, air preparation... our dedicated pneumatic and electric ranges meet every need.

**Catalogue: Process Automation range**



### Safety Integrity Level & ATEX compliance

Design your SIL loops with certified products and comply with standards thanks to our support. Make no compromise on safety thanks to our extensive ATEX-certified product range.

**Infosheet: Functional Safety in Automation Technology**



### Monitoring & predictive maintenance

Benefit from our customised dashboards and predictive maintenance solutions to monitor real-time data and make informed decisions right on time to ensure energy efficiency & productivity.

**Discover Festo Automation Experience**





## Who we are?

Mitsubishi Electric Corporation will contribute to the realization of an affluent and sustainable society through its business activities by upholding social norms and tirelessly developing technologies and taking action.

In the factory automation field, we will promote solutions to issues such as decarbonization and labor shortages by providing energy-saving equipment and solutions to production sites and utilizing automation technologies. Mitsubishi Electric's Factory Automation provides strong support for our customers' manufacturing needs : Our goal is to develop products that our customers can use safely and reliably and to only deliver products that fully satisfy the needs of our customers.

Mitsubishi Electric FA is highly regarded internationally for its efforts to improve quality in every process, whether product development, design or production, as well as in aftermarket service following delivery.

With flexible manufacturing processes focused on continuing our legacy and evolving, we provide high-performance, high-quality products that help make our customers more competitive.

## Track-record in hydrogen

Mitsubishi Electric is a reliable partner in the hydrogen industry. With our knowledge of process industry, we have an excellent understanding of our customers' needs and challenges. Our experience in managing complex systems that combine equipment from different areas enables us to provide complete solutions to equip fuel cells for marine or railway applications, electrolysers, automatic fuel stack assembly with robots, global automation management of production plants and Gigafactories.

## Product range

Our Full Lineup of diverse Factory Automation products deliver productivity and quality improvements. From digitalization (Digital Twin) to actuators, Mitsubishi Electric works tirelessly for technological innovation in everything from job shop production systems to developed flexible production systems.

Throughout our long history, we have developed a vast array of FA products ranging from PLCs that continue to dominate the industry, to control devices, drive devices, energy efficiency support equipment, power distribution control equipment and industrial mechatronics. In the design, manufacturing, and operation and maintenance phases, we propose digital solutions that make full use of software, such as visualizing huge amounts of production data with SCADA, drastically reducing start-up time with a 3D simulator, and analyzing unexpected equipment abnormalities with data analysis tools.

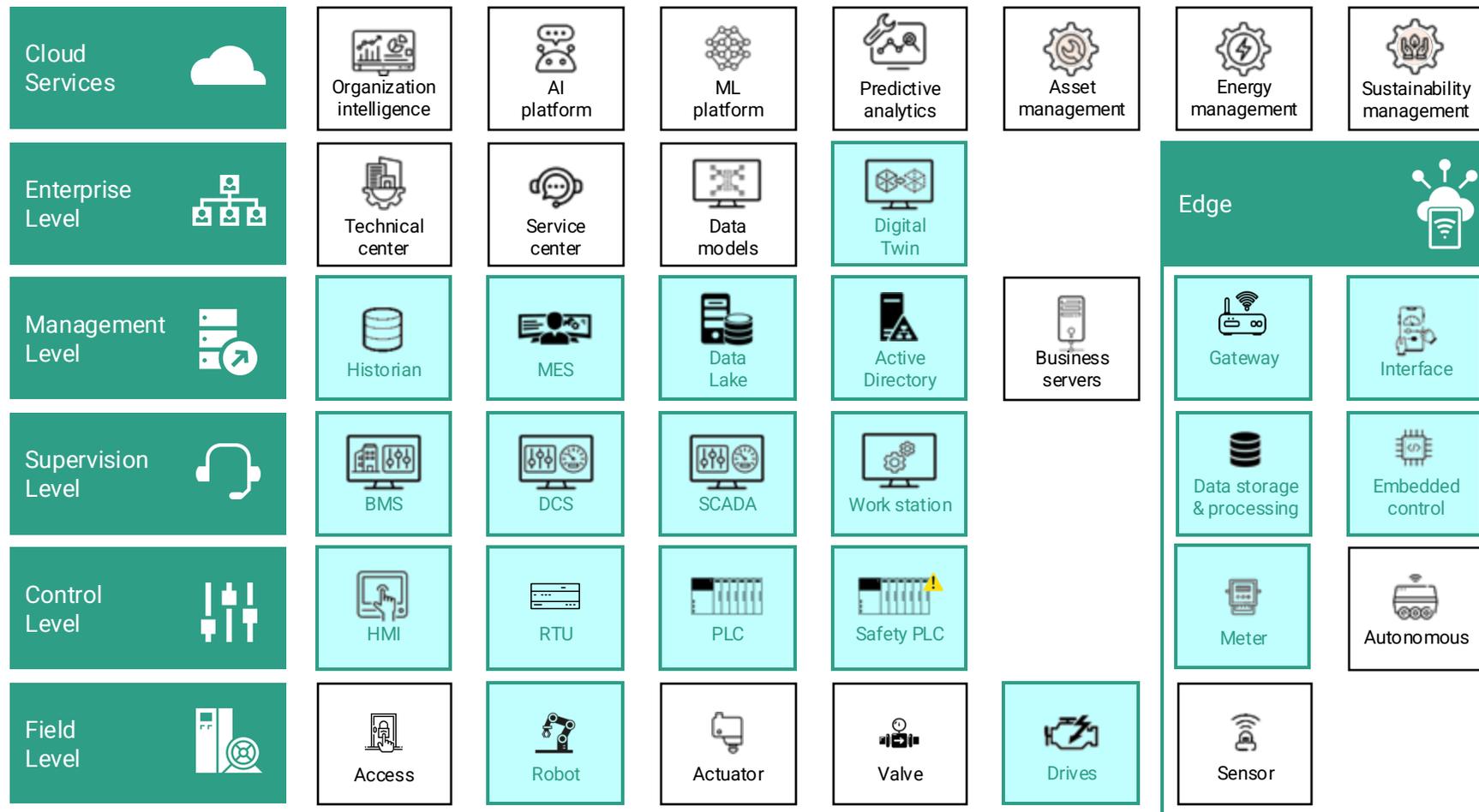
With our SCADA software GENESIS64™ from Iconics™, we deliver delivers real-time visualization, mobility, analytics, and connectivity to deliver a contextualized view of enterprise operations for manufacturing, industrial automation, and smart buildings customers,

With our powerful iQ-R series, we have realized an automation controller with added value while reducing TCO. The MELSEC iQ-R Series has been developed from the ground up to solve common problems in seven key areas: productivity, engineering, maintenance, quality, connectivity, security and compatibility. Different CPU are available to reach all your needs : standard powerful CPU, Safety, Process CPU and redundant solution,

- <https://www.mitsubishielectric.com/fa/solutions/competencies/process/index.html>
- <https://iconics.fr/logiciels-smart-factory/>

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**Product & services scope**



Solutions for hydrogen

SOLUTIONS



SCADA systems



3D simulators



Safety and redundant PLC



IE5 motors and inverters



Data analysis and learning AI solutions

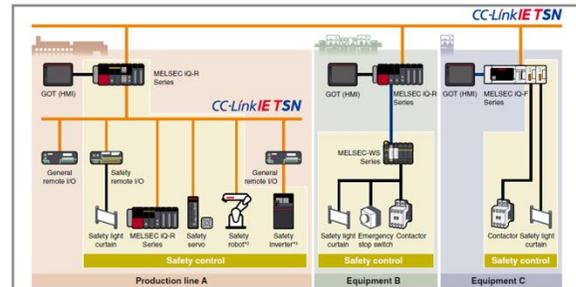


Energy saving solutions

CASES STUDIES



Local or remote visualization



Safety solutions for distribution

## Who we are? Where do we play in hydrogen?

Under a global umbrella brand, Phoenix Contact offers innovative products, solutions and digitalization expertise for the electrification, networking, and automation of all sectors of the economy and infrastructure. Phoenix Contact employs around 21,700 people worldwide, with sales of €3.4 billion in 2023. Worldwide, Phoenix Contact manufactures in a production network spanning nine countries in which the level of vertical integration varies. More than 50 sales subsidiaries around the world belong to the Phoenix Contact Group, ensuring proximity to both markets and customers.

As an experienced specialist for electrification, networking, and open automation, Phoenix Contact supports all parts of the hydrogen value chain i.e., in production, distribution and storage as well as utilization of hydrogen. For the digitalization of the Power-to-X industry, we offer holistic solutions and services from a single source – easily scalable, secure and transparent.

## Track-record in hydrogen

Based on our decades long experience in the process industry we have established a solid and growing base of series customers worldwide for our components and solutions in the areas of medium- and large-scale fuel cell systems, electrolysis and hydrogen storage and refueling. Furthermore, we have successfully realized automation projects for the hydrogen based decarbonization in shipping, steel and glass manufacturing.

## Products, packages, turnkey solutions and services

The entire Phoenix Contact product range from the fields of automation, electrification and networking is used in Power-to-X applications. Focal points are :



### Explosion protection

Find out about all aspects of explosion protection and our Ex-approved products.



### Remote communication

With our solutions and products for industrial remote communication, you can access your power-to-X systems worldwide.



### Functional safety

Smart safety solutions ensure a high level of safety for your power-to-X systems.



### Redundancy concepts

Ensure redundancy at all levels, from the redundant supply of auxiliary power through to overall concepts.



### Control and monitoring of electrolyzers

Control solutions ensure efficient and cost-effective operation of electrolysis plants.



### Controlling and monitoring fuel cells

Control solutions and safety technology increase efficiency in stationary and mobile fuel cell applications.

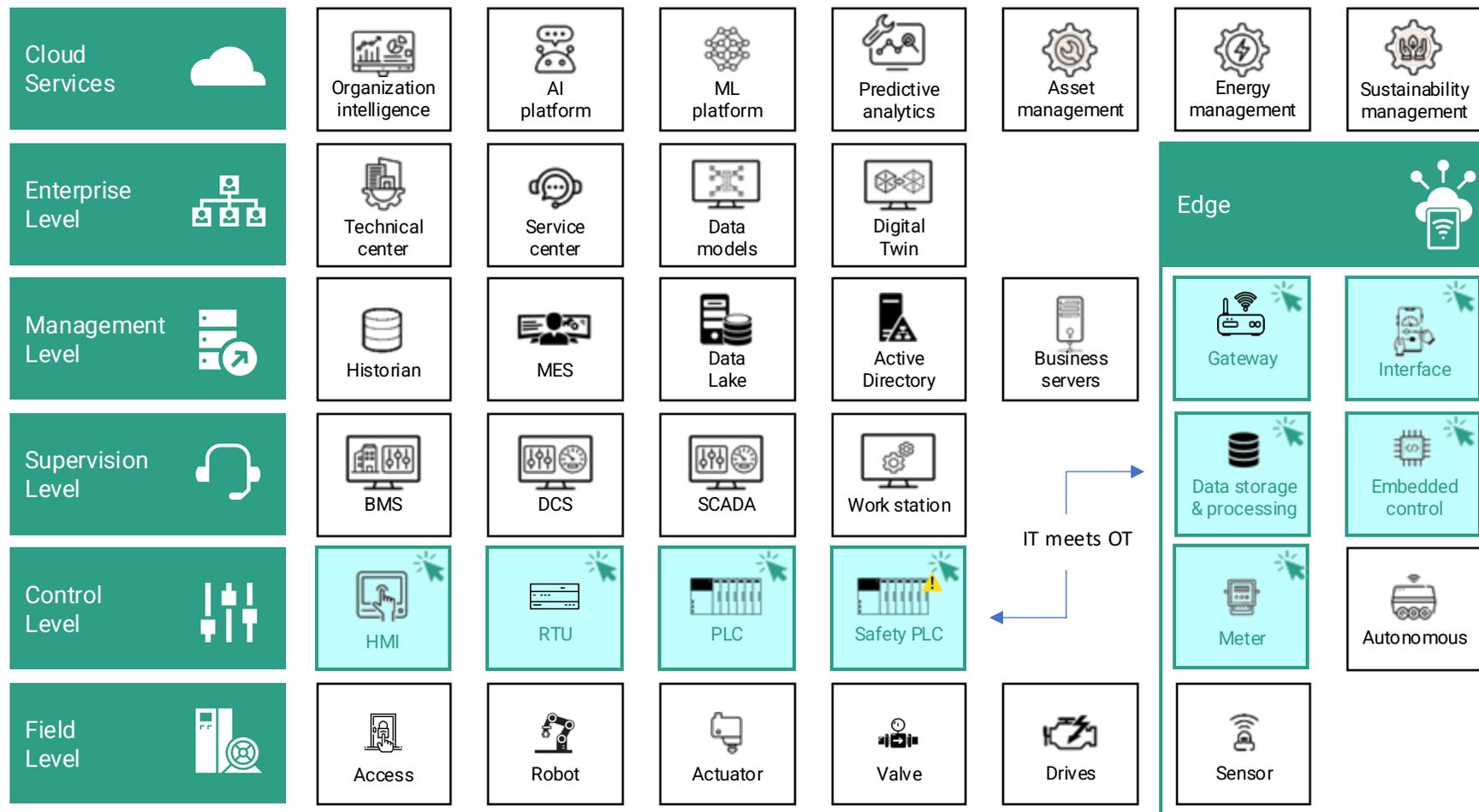
**CONTACTS:**  Philippe LE DAUPHIN [pledauphin@phoenixcontact.fr](mailto:pledauphin@phoenixcontact.fr)

 Thomas OESSELKE [toesselke@phoenixcontact.com](mailto:toesselke@phoenixcontact.com)

# PHOENIX CONTACT

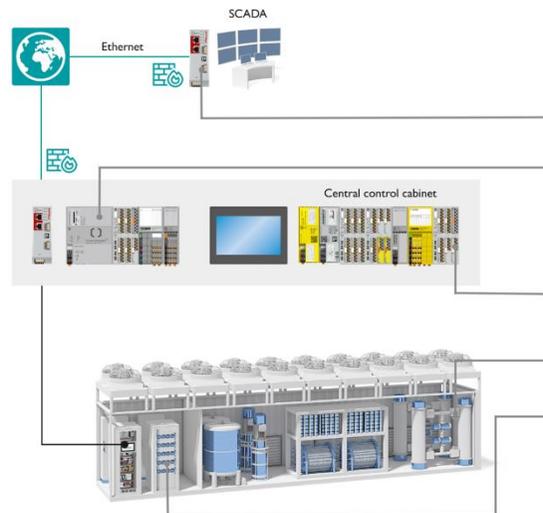


## Product & services scope



## Solutions for hydrogen

### ENERGY



#### Security routers

With comprehensive security functions, the mGuard security routers protect your industrial network against unauthorized access by people or operation.

#### Automation technology for PLCnext Technology

Use our broad portfolio of automation technology to equip your system for the IIoT and industry 4.0 with PLCnext Technology.

**Remote I/O systems** We provide a wide range of remote I/O systems for control cabinet and field installation.

**COMPLETE line** - industry specific solutions for the control cabinet

#### DC power electronics

Our highly efficient CHARX power electronics enable cost-effective operation.

### NETWORKS



#### Automation solutions for HRS

In order to enable environmentally friendly mobility, the expansion of a nationwide hydrogen service station network is being driven forward. Strict safety precautions and approvals for explosion protection and functional safety must be ensured.

To ensure that the hydrogen service stations work reliably and efficiently, we provide you with safe and open control and monitoring solutions. In addition, we enable you to remotely connect all submodules of your service station.



#### Leakage monitoring for pipelines

The power-to-X industry needs pipelines for transporting various gases, as well as pipeline systems for supplying buildings.

We offer an effective monitoring system for detecting leaks. In addition, you can calculate the exact location of the leak. Our solution can be used for hydrogen pipelines and for other gaseous and liquid renewable energy sources.

## Who we are?

For more than 70 years, supplier of automation solutions, Pilz is a company whose name is synonymous worldwide with safety for human, machine and the environment, providing automation solutions for all industries and sectors.

From Pilz you can expect automation technology that considers both machinery safety and security requirements.



Our mission is to automate plant and machinery in such a way that the safety of human, machine and the environment is always guaranteed.

Pilz is not only a supplier of products, we can offer a complete solution with safety and security services in hydrogen for controlling risk (SIL calculation, Hazop, Lopa, ...) in different applications like Plants, Electrolyser, Hydrogen distribution, ...

## Product range

Pilz products and systems are used worldwide. Our offer includes sensor technology, relays, small controllers PNOZmulti, controllers, Service robotics modules, operation and monitoring, software and networks technology.



Sensors



Control systems



HMI

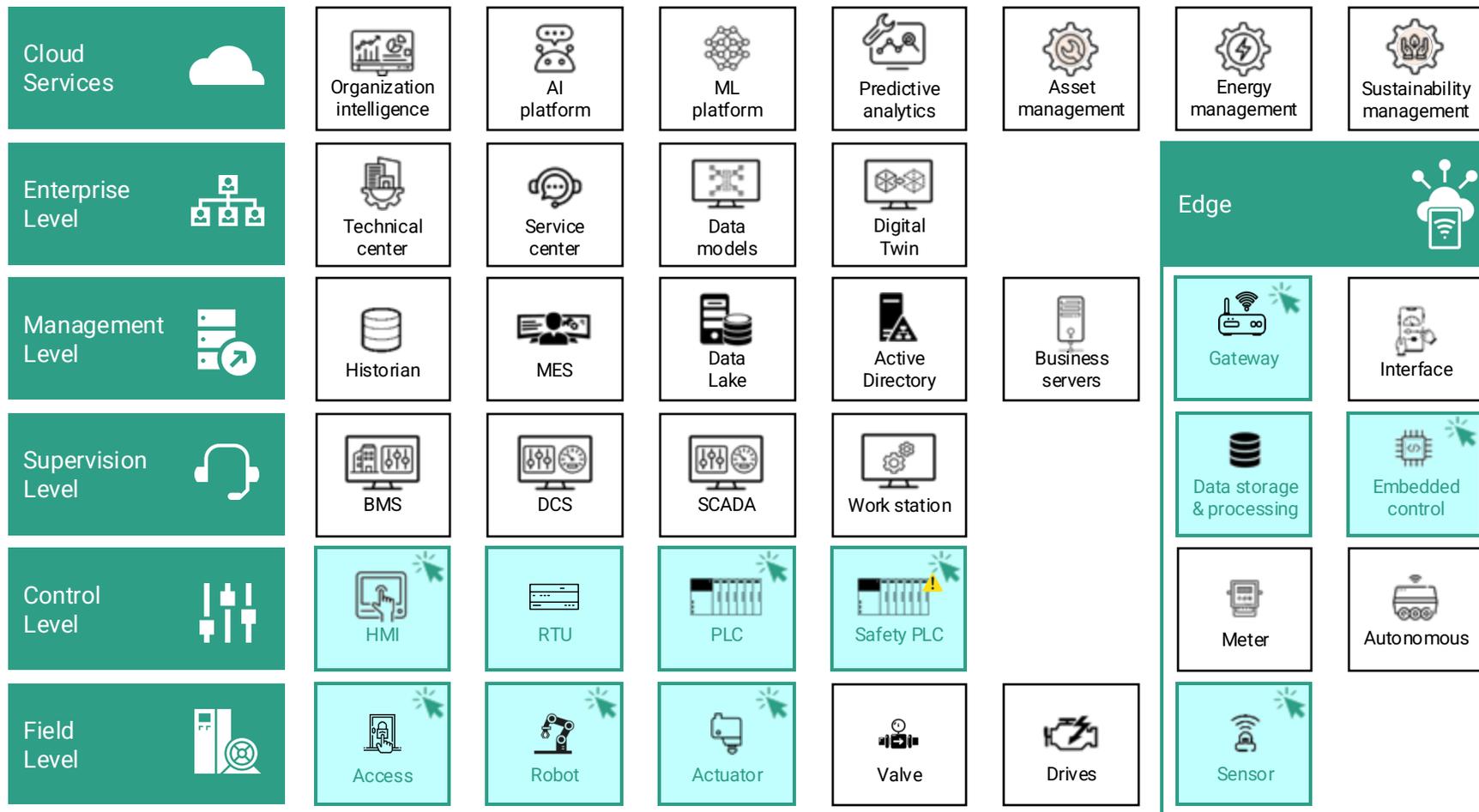
## Benefits at a glance

- Control and monitor all safety-related functions
- Management and monitoring of safety functions such as pressure, temperature, current, voltage and leak, gas and flame detection
- Access Management and security
- Certified hardware: PNOZmulti 2 and PSS 4000 up to SIL 3 certified in accordance with EN IEC 61511; satisfy the requirement according to EN IEC 61508
- Intuitive software tool
- Our solutions for the hydrogen industry : [Hydrogen – Safe and Secure monitoring - Pilz DE](#)

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 Albert COT [a.cot@pilz.es](mailto:a.cot@pilz.es)

## Product & services scope



## Solutions for hydrogen

<p>Generation and production</p>	
<p>Storage and distribution</p>	
<p>Application</p>	

PNOZmulti 2 PSS 4000

Automation and safe controller

I.A.M.

Identification and Access Management & Industrial firewall SecurityBridge

Services for Safety & Security (Hazop, Lopa, Cyber)

Life Is On

**Schneider**  
Electric



## Who we are?

As a global specialist with operations in more than 100 countries, Schneider Electric drives digital transformation by integrating world-leading process and energy technologies to realize the full efficiency and sustainability opportunities for your business.

We provide endpoint to cloud integration connecting products, controls, software and services. We enable lifecycle solutions from design and build to operate and maintain phases through a digital twin. We deliver capabilities to transform from site-to-site to an integrated company management. Our integrated solutions are built with safety, reliability and cybersecurity for your homes, buildings, data centers, infrastructure, and industries.

We are a global company with the advantages that business model brings it: geographical synergies, economies of scale, innovation, and fast change adaptation; though, Schneider Electric is the most local of global companies: local sales and deployment teams in most of geographies to understand and detect more rapidly our customers' needs.

## Track-record in hydrogen

The industry's transition is underway towards more production and uses of green hydrogen. Schneider Electric participates in this evolution, at all stages of the value chain, from design to maintenance, through construction and industrial operations. To meet this challenge, the objective of the group is to integrate energy management with all processes industrial companies in order to improve their efficiency.

The objective? Reduce investment expenses, optimize energy management, minimize downtime and thus increase overall profitability.

## Product range

Schneider Electric covers the entire Green Hydrogen value chain with proven solutions to address all of the developer's challenges: we have a value proposition for each of the blocks that are needed to produce and to deliver green H2. We also create the design in close cooperation with our customers.

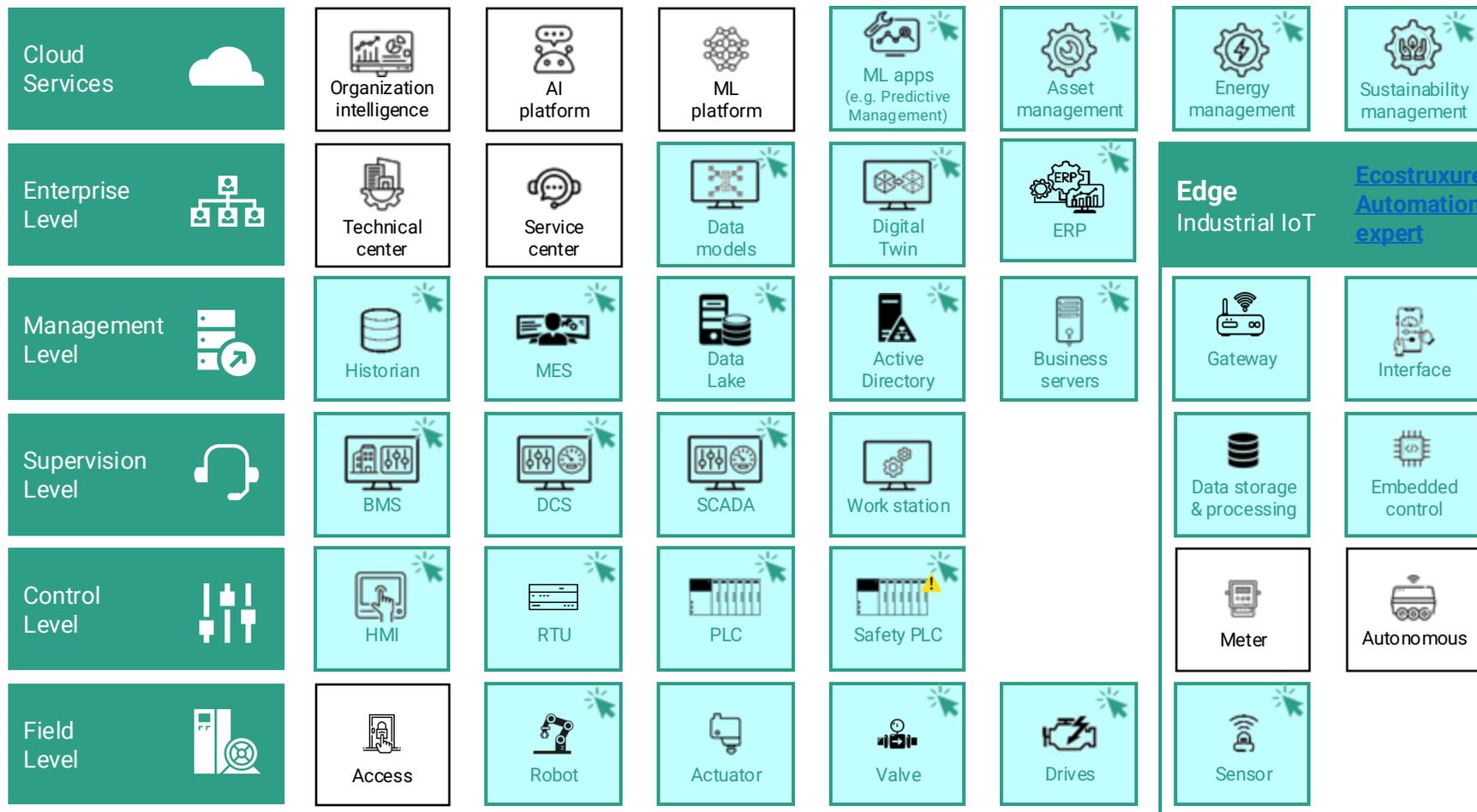
Regarding the Green energy needed for the production, we can support you with PPAs or to provide energy as a service. Example with our joint venture with Carlyle in the USA named Alphastruxure where we finance the creation of Renewable farms. We also have solutions about selection of renewable sources to select the best tariff and to ensure the continuity of supply, as well as E-house and the full electrical distribution needed to feed your production facility.

When it comes to the production facility, we have simulation tools to optimize your design based on your constraints, and apps and analytics to monitor your assets. We can also provide the traditional offers of SE with the connected products of LV, MV and Industrial automation. Last but not least, our portfolio covers the monitoring of the transportation and storage of Green H2. SE Integrated Electrical, Process Control & Safety Systems helps customers in the journey to operate and maintain unique Hydrogen complexes based in their need to decarbonize their operations and ensure energy security.

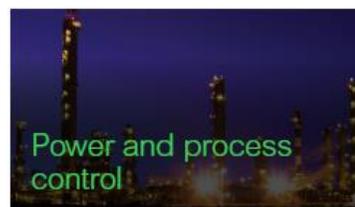
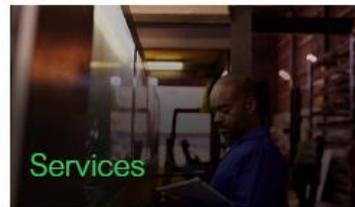
We understand the challenges and complexity of the gH2 entire value chain and will be privileged to be your technology partner for sustainable and efficient operations in this specific industry.

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**Product & services scope**



## Solutions for hydrogen



Schneider Electric technologies and know-how deliver the power to accelerate the design and development of valuable green hydrogen systems that help expedite global decarbonization. Ongoing access to technical expertise and support assists in continued system optimization and improved operating efficiency. The first step toward achieving these energy transition goals is contacting Schneider Electric. To learn more, visit our dedicated pages:



### Developing sustainable green hydrogen solutions requires continuous refinement

With innovative tools and services, Schneider Electric can help you improve system design and engineering results, maximize safety and efficiency and provide a path for achieving green certification. A partnership provides you with the right resources to ensure ongoing system optimization, including:

- **Combined safety, power, and process control systems**
- **Digital twin-powered process modeling and integrated engineering**
- **Optimized asset performance** via artificial intelligence (AI) and machine learning (ML) technology
- **Unified visualization** of the complete value chain

## Who we are?

Our focus is on industrial automation, distributed energy resources, rail transport and health technology. By combining the real and the digital worlds, Siemens empowers customers to accelerate their digital and sustainability transformation

'We create technology that the world needs – in industry, infrastructure, mobility, and healthcare. These industries are the backbone of our economies – and for all of them, digitalization offers tremendous opportunities to become more competitive, more resilient, and more sustainable. With our technologies, we empower our customers to accelerate their digital and sustainability transformations. Together we're transforming the everyday, for everyone.'

Dr. Roland Busch President and CEO of Siemens AG

## Track-record in hydrogen

Siemens has participated as investor as well as technology partner in WUN H2 operating company in Wunsiedel, Bavaria, building one of the biggest PEM hydrogen production plants in Germany. The goal of the ambitious project: a CO2 free sustainable energy supply based on green hydrogen.

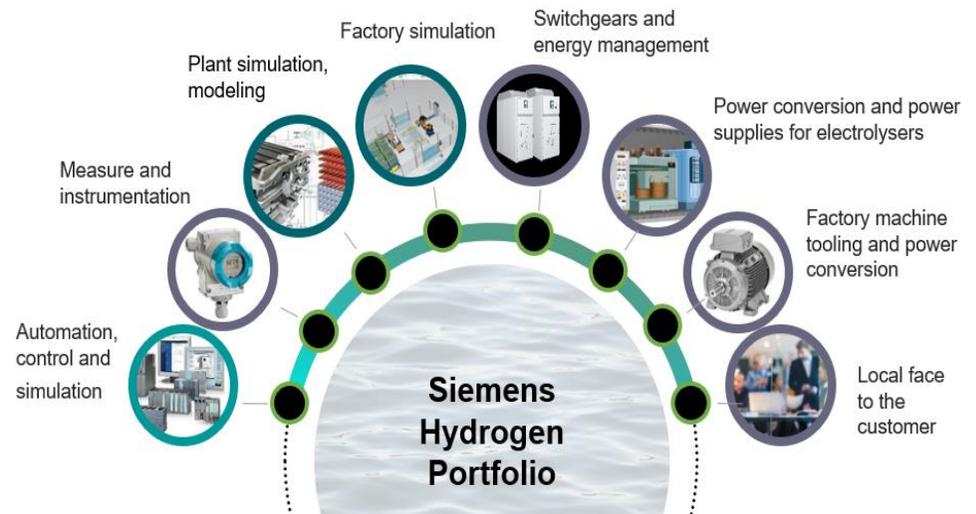
The solution for hydrogen supply includes an installed power of 8.75 MW and completely supplied from renewable energy sources. Siemens supports the entire process including simulation, planning, construction, operation and monitoring of the facility. Establishing an operating company (Siemens AG holds a stake of 45%)

<https://www.siemens.com/global/en/company/stories/infrastructure/2021/green-hydrogen-energy-storage-decarbonization-wunsiedel-dueren.html>

## Product range

Siemens provides concept, design, and planning services, including financing and consulting for the production, distribution and usage of hydrogen.

We offer use cases along plant and product lifecycle and support ramping up of the factory, from design and prototyping, through engineering and automation, manufacturing and assembly, installation, commissioning, operation and maintenance.



<https://www.siemens.com/global/en/products.html>  
<https://xcelerator.siemens.com/global/en/industries/chemical-industry/applications/hydrogen.html>

**CONTACTS:**  philippe.petroff@siemens.com

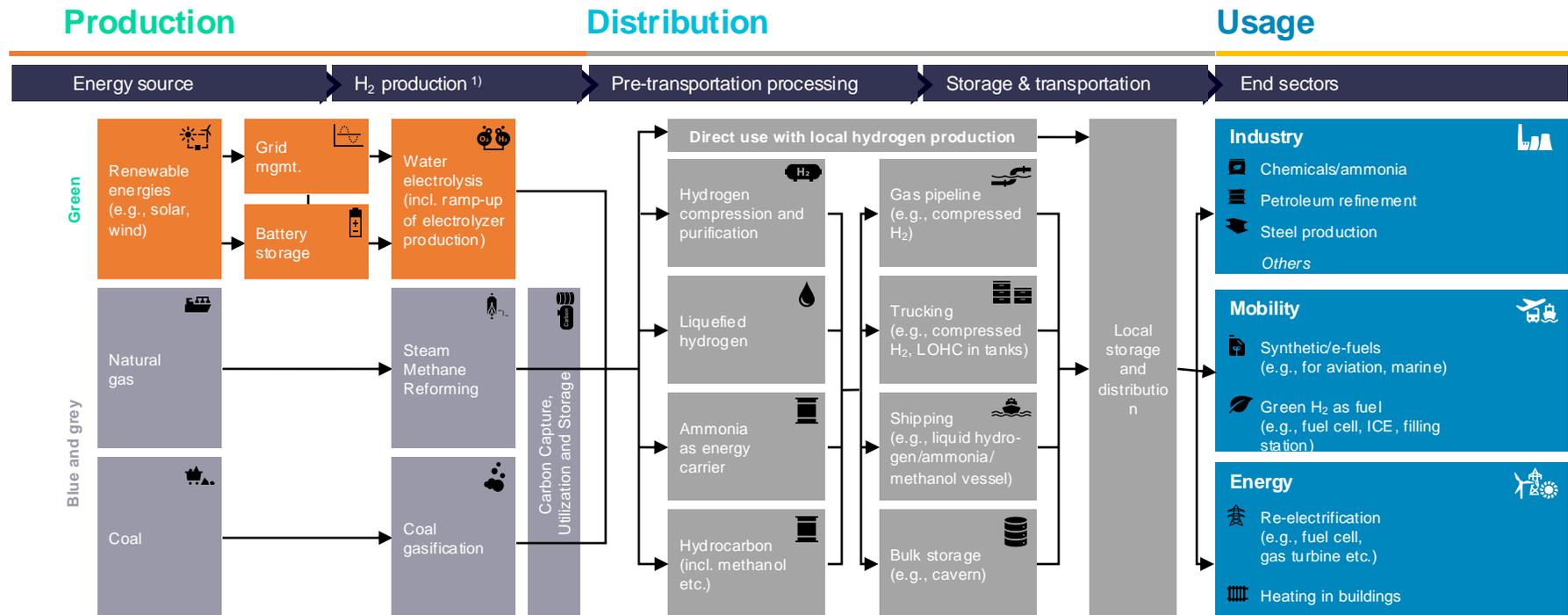
 uwe.stegemann@siemens.com

# SIEMENS



<p>Cloud Services</p>	<p><a href="#">Insights Hub (In Cloud)</a></p>		<p><a href="#">Cloud-based engineering with TIA Portal Cloud</a></p>		<p><a href="#">Sustainability</a></p> <p><a href="#">SIMATIC Energy Management</a></p>					
<p>Enterprise Level</p>	<p><a href="#">Solid Edge</a> <a href="#">NX</a> <a href="#">AME</a></p>		<p><a href="#">NX</a> <a href="#">TECHMATEX</a> <a href="#">COMOS</a></p> <p><a href="#">Production Planning   NX Production Planning   Tecnomatix   COMOS</a></p>			<p><a href="#">TEAMCENTER</a> <a href="#">POLARION</a> <a href="#">OMNEO</a></p> <p><a href="#">Polarion</a> <a href="#">Collaborative Product Data Management</a> <a href="#">Omneo</a></p>				
<p>Management Level (MES)</p>	<p><a href="#">PG UA</a></p> <p><a href="#">PROFIT NET</a></p> <p><a href="#">QPC UA</a> <a href="#">PROFINET</a></p>		<p><a href="#">Opcenter Execution</a></p>	<p><a href="#">Opcenter Advanced Planning and Scheduling</a></p>		<p><a href="#">Opcenter Intelligence</a></p>	<p><a href="#">Opcenter Quality management system</a></p>			
<p>Operator Level</p>	<p><a href="#">SIMATIC WinCC V8</a> <a href="#">WinCC Unified</a> <a href="#">WinCC OA</a> <a href="#">BRAUMAT/SISTAR</a> <a href="#">PCS 7/neo</a></p>					<p><a href="#">SIMATIC Process Historian</a></p>				
<p>Control Level</p>	<p><a href="#">Industrial Edge</a></p>	<p><a href="#">Controllers</a></p>	<p><a href="#">IPC</a></p>	<p><a href="#">HMI</a></p>		<p><a href="#">Control</a> <a href="#">Motion</a></p>	<p><a href="#">SINUMERIK</a></p>			
<p>Field Level</p>	<p><a href="#">SCALANCE RUGGET-COM</a></p>	<p><a href="#">SIRIUS</a></p>	<p><a href="#">SITOP</a></p>	<p><a href="#">SIMATIC IDENT</a></p>		<p><a href="#">Vision</a></p>	<p><a href="#">I/O</a></p>	<p><a href="#">SINAMICS</a></p>	<p><a href="#">SIMOTICS</a></p>	<p><a href="#">SITRANS MI</a></p>

## Solutions for hydrogen



**Nota:** No Siemens activities in coal business due to sustainability reasons

1) Other existing colors are not depicted in the view since – e.g., pink would have the same value chain as green

## Who we are?

### The Weidmüller Group

Smart Industrial Connectivity: Electrification, automation, digitalisation, electrical connectivity, electromobility and renewable energies – markets in which Weidmüller feels right at home. The family-owned company established in 1850 has production facilities and sales companies in over 80 countries. As a global player in electric connection technology, Weidmüller achieved a turnover of more than one billion euros in the 2023 financial year with around 6,000 employees worldwide - around 2,000 of whom work at the company's headquarters in Detmold, in the heart of East Westphalia-Lippe, Germany. What Weidmüller lives by: [Diversity with respect](#).

Technologies and engagement for a liveable future - Weidmüller demonstrates how it approaches the topic of sustainability in its interactive [sustainability brochure](#).

### Track-record in hydrogen

Weidmüller provides tailored solutions for the digitalization and monitoring of hydrogen plants, supporting the process industry in creating sustainable hydrogen production systems. We emphasize modularization for a swift ramp-up of the hydrogen sector, crucial in industries like steel, chemicals, and mobility.

To integrate hydrogen plants effectively into existing processes, we offer customized solutions, including system connectivity, energy visualization, and data analysis via SCADA and the cloud. At Weidmüller, we aim to facilitate the industrialization of hydrogen to help navigate the energy transition together.

## Solutions for Electrolyser, Fuel Cell, Process, Network & HRS

With the increasing importance of hydrogen as an alternative energy source, the various electrolysis processes in particular are coming into focus. Here we support you in all electrolysis technologies to offer you suitable electro-technical solutions for hydrogen plants - from low-temperature electrolysis (60 °C) to high-temperature electrolysis (1,000 °C). Through individual product development and their own accredited test laboratory, Weidmüller engineers enable condition monitoring for electrolysis stacks. Our systems offer the possibility of continuous quality monitoring, as a quality management tool before delivery, up to permanent monitoring in live operation via remote access. Not only can we withstand the high temperatures, but our product solutions for hydrogen systems are also suitable for particularly harsh and hazardous environments such as offshore applications and potentially explosive atmospheres.

The current state of hydrogen technology suggests that hydrogen refuelling stations will make a major contribution to making road transport more sustainable and greener in the future. With future-oriented and innovative solutions around the topic of hydrogen plants, we are doing our part. No matter which area it concerns, our product range helps you with, among other things Touch Panels in the filling unit. Weidmüller supports you every step of the way along the value chain involved in the customer-specific development of electrical and electrotechnical solutions for hydrogen plants.



**Production & Electrolyse**



**Storage & Refueling**

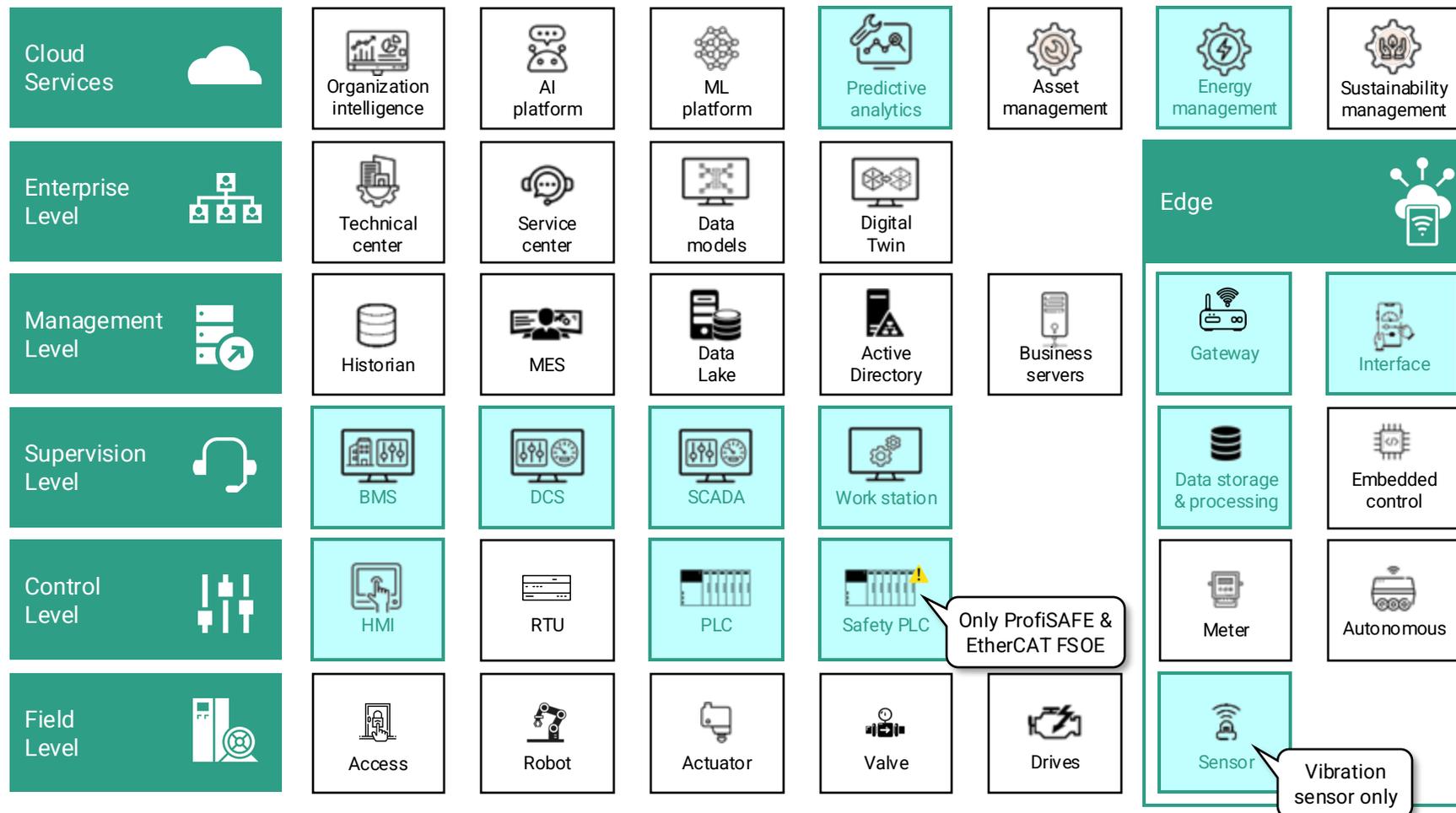


**Process**

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**Products & services scope**



Only ProfiSAFE & EtherCAT FSOE

Vibration sensor only

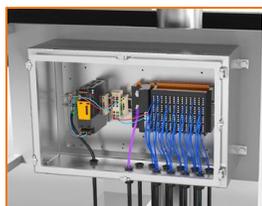
Solutions for hydrogen (Hypertext links below)



[Electrolyser & Fuel Cell CVP](#)



[Energy Management](#)



[CVM Data Acquisition](#)

[Sensor / Actuator & Field Connectivity](#)



[Data Communication](#)



[Vibration Monitoring](#)

