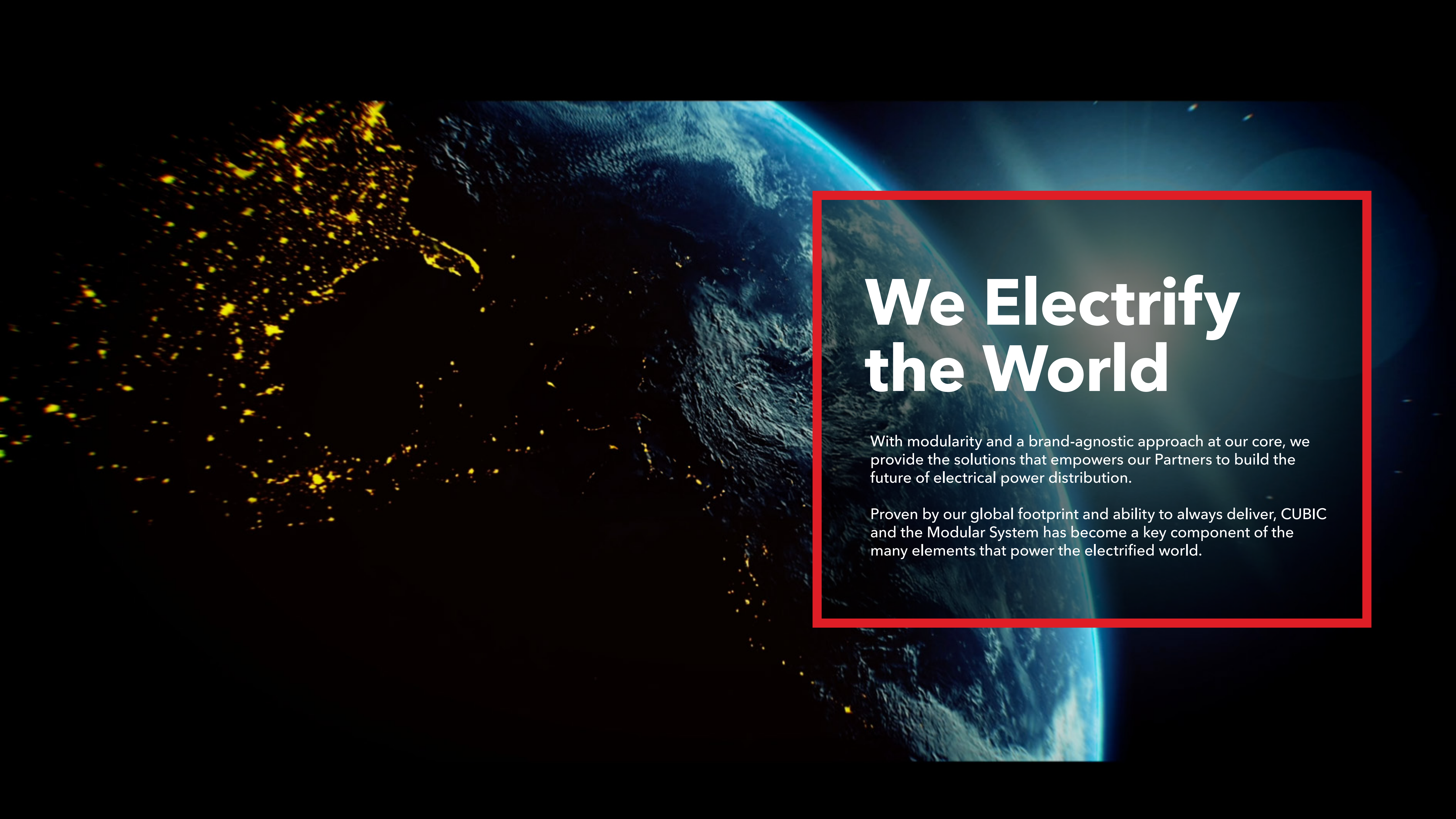


cubic.eu

The Modular System

CUBIC
A ROCKWELL AUTOMATION COMPANY



We Electrify the World

With modularity and a brand-agnostic approach at our core, we provide the solutions that empowers our Partners to build the future of electrical power distribution.

Proven by our global footprint and ability to always deliver, CUBIC and the Modular System has become a key component of the many elements that power the electrified world.

Build any kind of switchboard

with the power of modular thinking.

One system. Endless opportunities.

Imagine a modular system so flexible and versatile that it can be used to build any type of electrical low-voltage switchboard, compatible with components from major brands and certified to international standards. That is the essence of the CUBIC Modular System.

Competitive Solutions and Minimum Footprint.

With modular flexibility, a brand-agnostic approach to components, and agile configuration options, panel builders can easily customize compact switchboard solutions that meet individual end-user requirements with the highest level of competitiveness and minimal on-site footprint.

As the needs evolve, scalability ensures future expansion or modification is easily made.

Meeting End-User Requirements of any Industry.

Globally trusted for its reliability, safety, and adaptability, the Modular System is the preferred choice across diverse industries. From the most demanding sectors, such as Data Centers, Offshore, and Mining, to more regulated industries like Food & Beverages, the Modular System is the preferred option due to its unique ability to align investment with requirements.

Switchboards to be built in the Modular System:

- Main switchboards
- Distribution switchboards
- Marine switchboards
- Motor control centers (MCC)
- Withdrawable systems
- Fixed insert systems, FORM class 1-4
- Class II inserts
- Small distribution boards
- 19" modular racks
- Desks



Read more about switchboard types.

Meet requirements with a safe, reliable, and competitive IEC-certified electrical switchboard system – that's quick and easy to assemble!



Flexibility and Scalability.

Experience true flexibility and scalability driven by our modular approach. Leverage the system's range of standard components to build certified switchboards that meet any requirements, and modify or expand the solutions as the need evolves.

Brand-Agnostic.

Easy integration of tested electrical components from most major brands, offering maximum versatility.

Optimized Assembly and Reduced Downtime.

Allows for standardized processes that streamline assembly, for faster time to market and reduced downtime through simplified maintenance.



Tested for Optimal Safety and Easy Design Verification.

Extensive testing ensures safe and reliable performance, verified to international standards by leading independent laboratories. Certified to IEC 61439 and UL 891, guaranteeing top-level reliability and easy design verification.

Intuitive 3D Design Software.

Speed up the design process with CUBIC's industry-leading design software, which allows for drawing, calculation, and purchase - all in one.

Flatpack Delivery.

Optimized logistics with flat-pack delivery for a reduced carbon footprint, lower freight costs, less storage space, and easier handling.

Agile Configuration Options

to Connect Investment and Requirements.

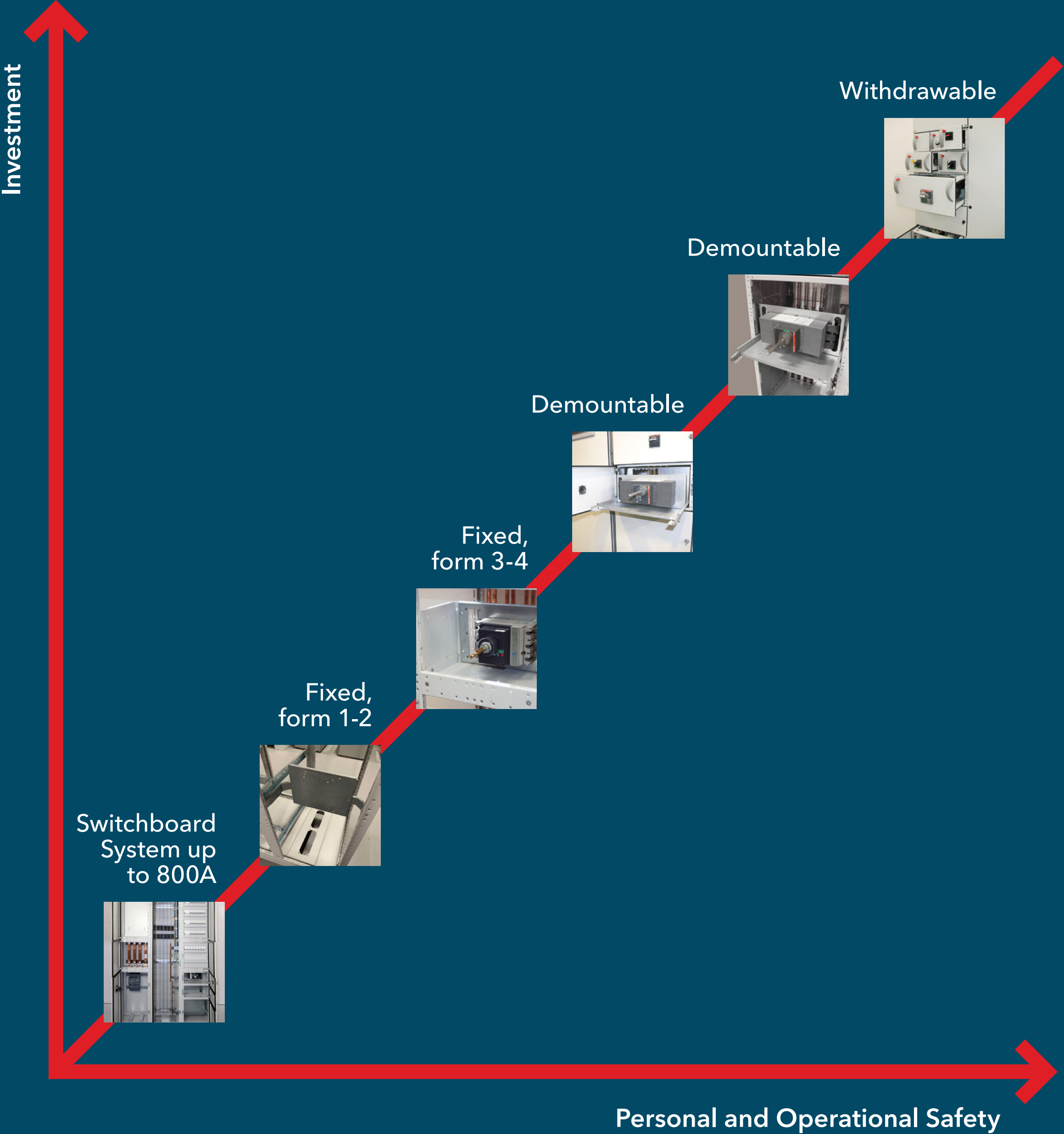
Leverage the Modular System’s extensive range of configuration options to easily customize any switchboard solution to fully meet end-user requirements without the need for oversizing solutions.

Choosing configurations by aligning project specific personal and operational safety requirements to the investment level, ensures competitive solutions where requirements and price goes hand in hand. Combine several options in the same switchboard solution for optimal competitiveness.

With additional adjustment possibilities for each of the available configuration options, panel builders can focus on opportunities rather than limitations.

Click to explore key features of each configuration option

 **Read how to choose the best fitting configuration options in the Modular System**



Beyond Modularity.

A Complete Package for Competitiveness.

Building competitive switchboards goes beyond modular flexibility alone. It's about offering a full package that drives unmatched value for both panel builders and end-users. CUBIC's Modular System combines flexibility, brand-agnostic compatibility, agile configuration options and scalability, with intuitive design software, streamlined design and assembly. Along with certified quality, flatpack delivery, and global support, the CUBIC Modular System is a complete package that maximizes competitiveness.

For panel builders, this package means they can offer efficient, accurate solutions with greater customization options while reducing total costs and gaining extended market access, faster time to market, and repeatable business.

For end-users, this results in reliable and safe, high-quality solutions that perfectly meet specific requirements, reducing footprint, downtime, and operational costs, while ensuring optimal long-term performance and easy upgrades as needs evolve.

This complete package not only simplifies processes but also elevates the end product, positioning both panel builders and end-users for success in today's demanding market. That's why the CUBIC Modular System is the most competitive switchboard system in the world.

Proven Reliability

with CUBIC Busbar Systems.

CUBIC's busbar systems offer a tested, reliable solution up to 6300A, combining performance with ease of installation. Certified to IEC/EN 61439 standards, our busbars support short-circuit levels up to 120 kA for 1 second, with a peak withstand current of up to 264 kA, delivering proven reliability for even the most demanding applications.

Engineered for efficiency, the system's design enables quick assembly within templates, with no need for drilling or threading, thanks to CUBIC's unique adjustable assembly bolt, which allows for precise, secure connections. With all joints designated as maintenance-free, our busbars are designed to save both time and cost over their lifecycle.

Fully compatible with the CUBIC Modular System, the busbars are comprehensively detailed in our Instruction Manual, ensuring straightforward integration and installation every time.



Tested by Leading Independent Laboratories.

Tests and Certificates.

Thoroughly tested and verified by leading independent laboratories, the CUBIC Modular System ensures safe and reliable performance in compliance with the IEC 61439 series and UL 891. Independent testing guarantees the highest validity and quality of our products, leaving no questions unanswered.

With thousands of tests and certifications, the Modular System offers limitless, verifiable design options. Every test is designed to extend opportunities and minimize documentation requirements for panel builders by simplifying design verification and eliminating the need for additional testing.

CUBIC's advanced testing program enables panel builders to meet any end-user requirements.

Our tests cover:

- A variety of busbar sizes for different loads.
- Varying busbar support distances for short-circuit resilience.
- Multiple IP levels to suit different applications.
- Compatibility with a wide range of component brands.
- Performance of busbars and several component brands temperature-rise tested at different IP ratings.

To reinforce trust with our partners and end-users, DEKRA serves as the certifying body for all our verifications and certifications. Additionally, the Modular System undergoes vibration, seismic, and arc-fault containment tests, ensuring compliance even in the harshest environments.



Safety Solutions

for Operators, Equipment, and Facility.

The Modular System is engineered with safety as a core priority. Through extensive testing and continuous innovation, the system can be configured to meet the highest standards, with a variety of different safety features - all designed to provide protection for operators, equipment, and facilities.

[Click to explore the unique features.](#)



Take Your Switchboard Design to the Next Level

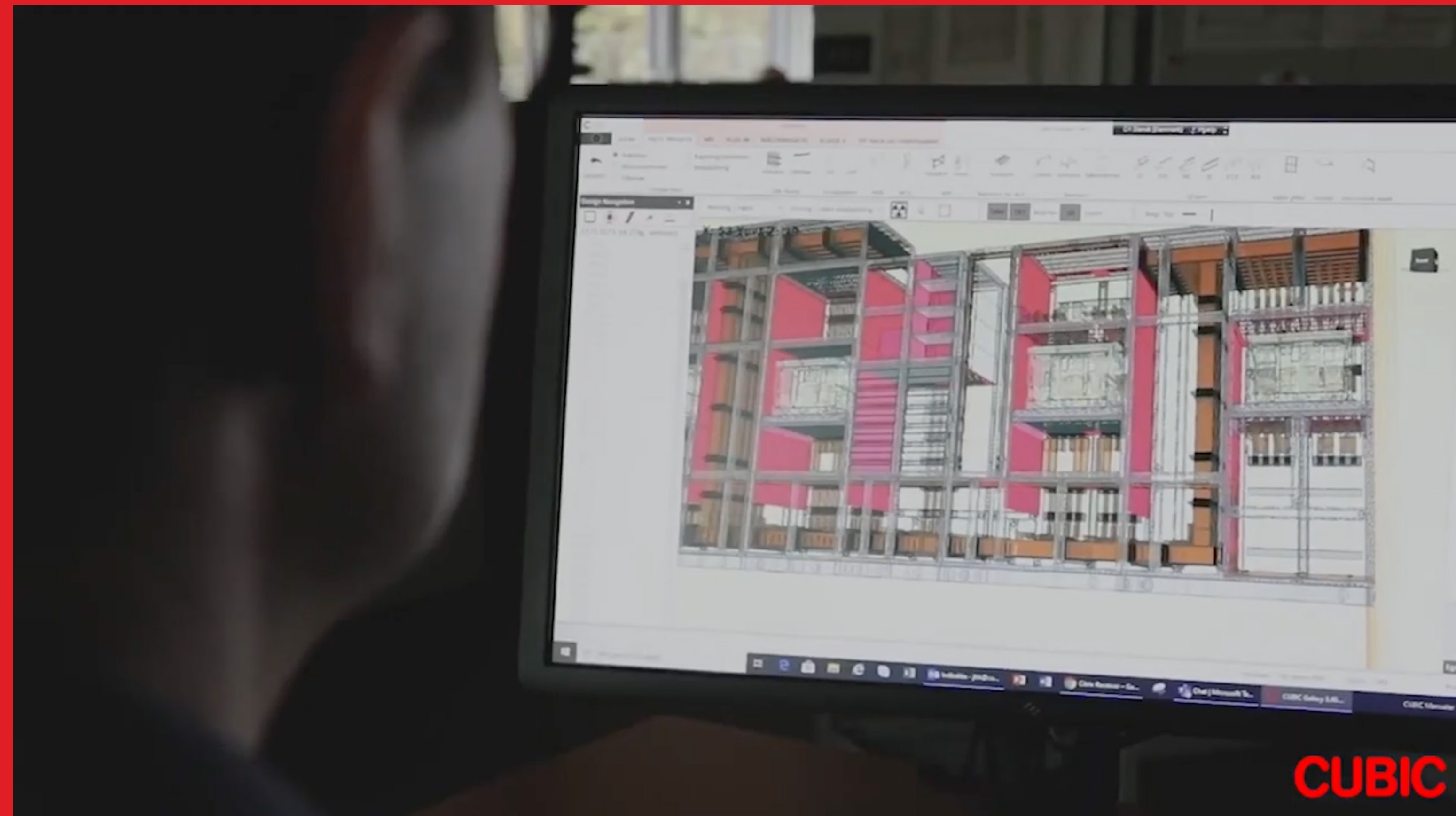
with CUBIC Galaxy.

Designed for speed, precision, and integration, the CUBIC Galaxy design software offers increased performance, reduced errors, and streamlined workflows from design to assembly.

Featuring 3D design and advanced functionalities based on customer feedback, the user-friendly interface accelerates and simplifies switchboard design with easy design verification and temperature rise calculations that comply with IEC 61439 standards. Speed up even further by reusing and customizing saved design templates.

With Galaxy's built-in purchasing module, you can generate bills of materials, place orders directly, and consolidate purchase orders by connecting your engineering teams' databases. Optimize costs by leveraging quantity packages, and ensure both efficiency and competitive pricing.

Leverage detailed 3D views in the workshop to make component identification and assembly faster and more intuitive. Galaxy's precise visuals guide assembly teams, reducing errors and streamlining processes, while enabling clear communication between design and production for higher efficiency and quality.



Global training and support.

Achieve Certification and Expertise

with CUBIC's Global Training Program.

To maintain the high-quality standards of CUBIC switchboards globally, each and every CUBIC-certified panel builder has completed our Global Training program.

Created for panel builders, design engineers, and others involved in the construction of switchboards, the program enables professionals to design and optimize switchboards based on CUBIC's modular approach, ensuring flexibility and competitiveness.

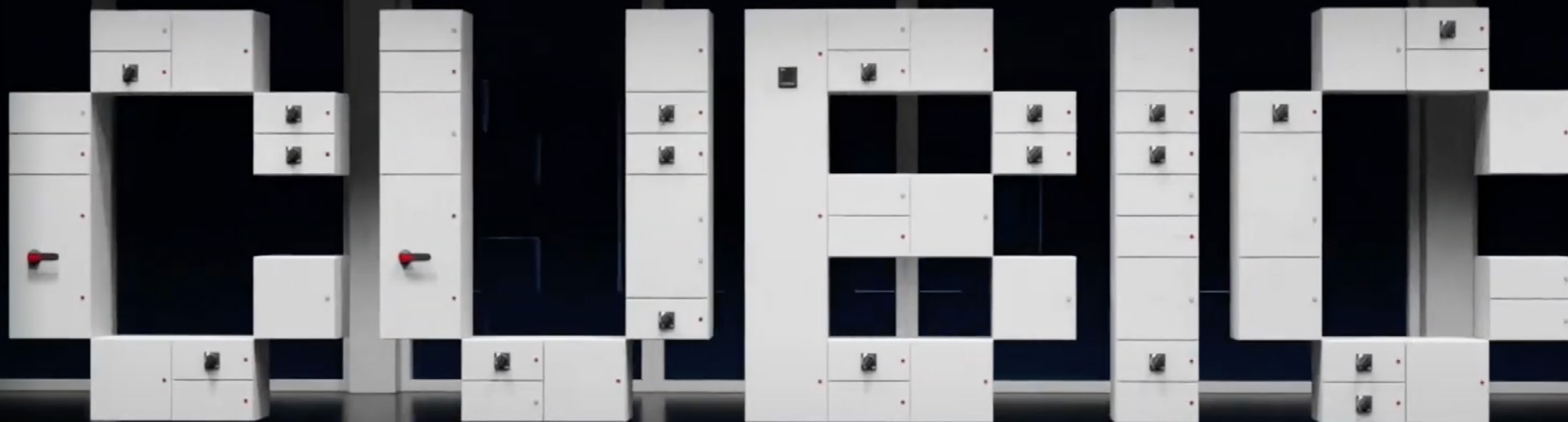
Through theoretical and practical training sessions, participants acquire expert knowledge on CUBIC's products, documentation, design verification, and international standards, while gaining valuable hands-on experience designing switchboards in the Galaxy software and assembling modular switchboards in our workshop.

Continued Global Support.

Even after completing CUBIC Global Training and achieving the necessary qualifications to provide end-users with the market's most competitive switchboard solutions, our dedicated Global Support team of experienced and skilled engineers is ready to offer continued technical support.



Read more about CUBIC Global Training



Technical Data.

The CUBIC Modular System.

Material:

Electro-galvanized/iron-phosphated steel plate.

Color:

Light grey, RAL 7035, powder lacquered 60-80 µm.

Busbar systems:

Four systems ranging from 200-6300A.

Supply systems:

TN-C, TN-S, TN-C-S, TT, and IT.

Internal separation:

FORM 1, 2a, 2b, 3a, 3b, 4a, 4b and FORM 4, type 1-7.

Electro-magnetic compatibility:

EMC environment A and B.

Rated current:

Up to 6300A.

Dielectric properties:

Up to 3.5 kV.

Rated short-time withstand current:

Up to 120 kA.

Rated peak withstand current:

Up to 264 kA.

Rated voltage, insulation:

1000V AC.

Rated operational voltage:

Up to 1000V, 50 Hz.

Degree of protection:

Up to IP54.

Vibration test:

0.7 G in frequency area 5-100 Hz in three directions.

Seismic test:

1 G in horizontal directions and 0.8 G in vertical directions.

Arcing test:

Acc. to IEC TR 61641, AS/NZS 3439. 1, and IEC TS 63107.

Surface treatment:

Class C2 high, acc. to ISO 12944

Framing the power of close relations.

We empower our partners to adapt to a world in constant change because the very nature of our product is to take on any shape, form, or size. And to be changed, upgraded, or expanded. This is the edge that enables us to approach the market together and how we form relationships that evolve into successful partnerships built on common goals.



Ole Madsen
CEO, SystemTeknik A/S

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