



# WELCOME TO THE WORLD OF CONFIDENCE

## CORPORATE PROFILE



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# ABOUT US

## INTRODUCTION

Keystone Controls is your expert in Control. We will empower you to confidently construct, operate, and maintain best in class industrial facilities in energy, resources, and manufacturing.

We deliver safe, reliable, efficient and more profitable industrial facilities through industry leading Process Control System Engineering, and best in class Project Management.

Industry leading Process Control System Engineering means we empower your

control from the plant floor to the boardroom, delivering stable operations and optimized productivity. Through a single point of responsibility, we anticipate your needs, and deliver on every commitment we make, liberating you to engage with what matters most.

Best in class Project Management means we empower you to effectively select, professionally manage and precisely execute safe, structured, and more successful projects.



### PRODUCTS

Control System Technologies from the world's leading Automation providers.



### SERVICES

Cradle to Grave Process Control System & Project Management Services.



### SOLUTIONS

Industrial Automation Solutions that empower your control from the plant floor to the boardroom.





KEYSTONE CONTROLS,  
YOUR EXPERT  
IN CONTROL.



***We have been very happy with every aspect of your service, particularly the quality of deliverables, flexibility with regard to the time sensitive schedule, and simplification of the project effort through a single dedicated point of contact.***

***Working with consultancy companies that not only do a great job and deliver on time, but work seamlessly with our people and within our facility is essential for our company to complete our projects on time, and within budget.***

***This relationship makes doing business a pleasure.***

**Stephen Rogers, Project manager, Synergy**

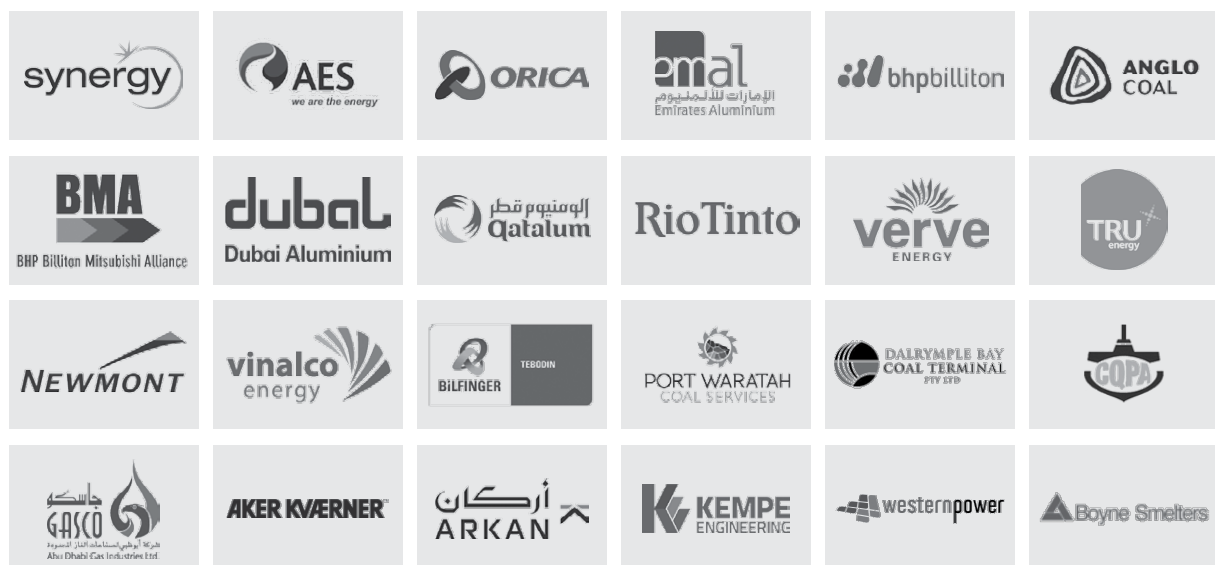
## ABOUT US

Since first establishing our business in Newcastle, Australia, Keystone Controls has become one of the industry's most progressive, responsive and trusted Engineering and Project Management solutions providers.

Over the years, we've developed comprehensive and industry-specific expertise constructing, operating, and

maintaining best in class industrial facilities in energy, resources, and manufacturing.

Our team includes Electrical and Control Systems Engineers, Electricians, Mechanical Engineers, Hydraulics technicians, Drafts People, and Project Managers, all with a wealth of experience in the delivery of Client Partner Value.





## DIFFERENCE

What sets us apart? We're formulated for value, Committed to our Client Partners, and Invested in Quality.

### FORMULATED FOR VALUE

Through a fundamental shift from stale corporate structures, Keystone Controls realizes efficiencies not achieved by our competitors. Investment in extraordinary people and elimination of un-extraordinary corporate fat mean Keystone Controls are positioned to deliver unmatched value.

### COMMITTED TO OUR CLIENT PARTNERS

The Keystone Controls Client Partner Commitment means that we are there when you need us... always. We appreciate the in-depth knowledge gained while working within our client partner's facilities. We appoint dedicating engineering resources who are intimately familiar with

their processes and technologies, and are committed to unsurpassed customer service, 24 hours a day, 7 days a week, and 365 days a year.

### INVESTED IN QUALITY

Keystone Controls personnel are industry leaders in their field, whose energy to achieve unmatched innovation is harnessed within the:

- Keystone Controls Quality Oriented Engineering Framework, built upon internationally accepted standards and industry best practice
- Quality Focused Project Execution Philosophy (PEP), based upon recognised Project Management Procedures
- Our Project Quality Assurance Procedures (PQAP)

Providing an indomitable combination for the success of our client partner's.





OUR MISSION:  
ENGINEER CLARITY.  
DELIVER CERTAINTY.  
EMPOWER CONTROL.



# INDUSTRIES

## POWER

We know how it works... One thing breaks and your day goes out the window. And we know what you're thinking... how can "1's & 0's" wreak so much havoc?!

The fact is, the power industry is unforgiving. BUT... unplanned outages caused by control system equipment is absolutely avoidable if you choose to Take Control before IT hits the fan!

Standing between you and confidence is the right information, a proactive plan, a system for execution, and the people to make it happen.

Our experienced Process Control Engineers and Project Managers provide full power station life cycle services, from design and development, through commissioning and completion, ongoing technical management services, and most importantly, the training and development your team needs to Take Control.

Keystone power experience includes:

- Power Station Refurbishments.
- Power Station DCS upgrades
- SCADA retrofits
- Asset Management and planning
- Instrumentation design, install & Calibration
- Burner Management Systems
- Turbine Supervisory instrumentation and control systems
- Construction Project management
- Commissioning and Completions Management
- AVR and Governor Upgrades
- Control System Audits
- Conventional fossil fuel firing in thermal power plants
- Baghouse and Emissions monitoring.





## MINING & MINERALS

For a long time now, automation has done the heavy lifting in mining, enabling us to extract more... more efficiently, more productively, and more safely.

It's a harsh environment that works 24/7, demanding long hours for operations and maintenance staff, and an arduous life for mining equipment. To get the job done in this environment, there is no compromise to the right people, and the right equipment. Nowhere is it more evident that going cheap is expensive.

At the heart of this is your Control System, which needs to be just as tough. Where a seemingly innocuous failure can cause systemic disruption, we again need the right people, and the right equipment. The right people trained and ready to react ensure your breakdown is kept to a minimum. But, the right people, working within an intelligence based and proactive framework will prevent it from happening in the first place!

Extract more value from your mining operation with Keystone Controls.

Keystone mining experience includes:

- Stacker-Reclaimer Automation
- Ship Loader Automation
- Dust Monitoring Solutions
- Sampling Plant Automation
- Coal Washeries
- Processing Plants
- Conveyor Automation
- Stockpile Modelling
- Control System upgrades & Migrations minimizing downtime & risk
- Minerals Processing Automation
- Enterprise level plant intelligence systems



# PRODUCTS

Control System Technologies from the world's leading Automation providers.

## RENEWABLES

The convenient supply of energy makes the lifestyle we enjoy in the developed world possible. Crucially, it is key to improving life in the developing world.... BUT... we now have a much-improved understanding of the environmental impact when traditional generation methods and fuels are solely relied upon.

Governments around the world are increasing their support for the development of renewable technologies as a solution to this problem, helping to achieve efficiencies that rival our current fossil fuel infrastructure.

To achieve a world where zero emission renewable technologies play a significant role, companies must seek smarter and

more efficient methods to establish viability, and to compete with the established industry.

At Keystone Controls, we've developed extensive experience working with these disrupters, achieving feasible solutions through innovative use of Technologies, and the application of advanced Process Control methods.

Keystone Controls Renewables Experience:

- Solar farms.
- Battery Storage facilities.
- Waste to energy technologies.
- Wave generation technologies.
- Wind farms.

## WATER & WASTE WATER

It has become clear that the availability of clean water can no longer be taken for granted. Water shortages in many parts of

the world have presented an uncomfortable reminder that... without water, everything else is pretty useless!





These shortages have attracted much attention, and have demanded that we rethink how we use and manage this most valuable asset.

Fortunately, governments have invested significantly in new technologies in response to this looming issue. Technologies such as desalination plants have sprung up in cities around the world to accommodate this worsening shortfall.

Also, improvements in management of our natural water resources is available via alternative treatment methods and utilization of modern technologies.

Keystone Water and Wastewater experience includes:

- Application of IoT and cloud based management systems
- Water Infrastructure Controls
- Desalination Plant Control Systems
- Pumping Stations
- Telemetry
- Water Catchment & Storage
- Water Treatment Plants
- Irrigation.

## TO ENGINEER CLARITY

To bring order to complexity, empowering our client partners to confidently construct, intelligently operate, and proactively maintain their industrial facilities.



## OIL & GAS

In an industry where downtime costs more than in any other, oil and gas companies today are looking for ways to minimize control system complexity, and reveal the information that is actually useful within a wash of alarms and noise.

This is no easy task! Oil and gas extraction, processing and transportation are complex applications that place stringent demands on their automation and control systems. Environments are challenging. Safety is a huge concern. Regulations are demanding. Up time is critical.

But standing between you and clarity is the right information, a proactive plan, a system for execution, and the people to make it happen.

Our experienced Process Control Engineers and Project Managers provide full Oil &

Gas life cycle services, from design and development, through commissioning and completion, ongoing technical management services, and most importantly, the training and development your team needs to Take Control.

Keystone Oil and Gas experience includes:

- Telemetry Solutions
- Remote Support
- Energy Management Solutions
- Gas Gathering and Monitoring systems
- Wellhead Control Systems
- Coal Seam Gas Dewatering
- Control System Upgrades and Migration.
- Control system Life Cycle Management.





# SERVICES

Cradle to Grave Process Control System & Project Management Services.

## INFRASTRUCTURE

In our modern interdependent world, infrastructure is key to the life style enjoyed by the 1st world, and the economic and social development of the 3rd.

While infrastructure Control Systems don't move as fast or as poetically as a high speed manufacturing line, they come with their own set of challenges.

Most significantly, A LOT of people rely on them day and night... people that expect things to work (understandably). Problem is, when they don't work, they don't work! And exposure to so many people means that the consequences of things going wrong are at best, significant, and at worst, dire.

For this reason, Infrastructure Control Systems MUST be utterly reliable. They must be done right the first time, by a company that's done it all before, with a

wealth of experience delivering reliable systems... reliably.

Keystone Infrastructure experience includes:

- Control Systems for Port Shiploading facilities.
- Control Systems for Port dump stations.
- Rail Control and signaling
- Water and Waste water Control Systems.
- SCADA Monitoring and Control of Rail system power distribution
- Telemetry Solutions for smart cities
- Control System Upgrades and Migration
- Control System Life Cycle Management.



# SOLUTIONS

Industrial Automation Solutions that  
empower your control from the plant floor  
to the boardroom.

## MANUFACTURING

An expanding global population & an improving standard of living means increased business for manufacturing facilities producing the goods we need.

The challenge of the recent past has not been lack of business. It's been a shrinking world, where manufacturing facilities in the developed world have been forced to compete with those in the developing world.

This fierce competition has been addressed by significant government subsidization or facility closure (in the worst case). BUT, in the best case, it has driven the industry to adapt and evolve with advanced technologies and remarkable management systems that are the envy of every other industry.

Ironically, today, the major challenge for manufacturing facilities in the once low cost economies is the rapidly escalating operating costs as a result of improving standards of living!

Fortunately, we've experienced the inspiring evolution of the Manufacturing industry in the developed world. We're also now experiencing the application of that intelligence in the developing world! From simple PLC retrofits and migrations, to fully connected Manufacturing Execution Systems, we're just excited to make it happen!

Keystone Manufacturing Capabilities Include:

- Bottling Lines
- Refrigeration Systems
- Tank Farms
- Recipe Handling
- Monitoring and Reporting
- Energy Management
- Load Shedding
- Palletising Solutions
- Quality Assurance Systems



## METALS

Throughout history, advancements in metals have driven cultural and technological progress. Today, the success of entire industries depend on the consistent availability of finished metals of the highest quality. To satisfy the demand, production equipment must deliver reliable power, precision, repeatability and performance.

Reduce your energy costs. Reduce emissions. Reduce operational hazards. Addressing these orders while producing a quality product calls for greater insight and process intelligence.

Over the years, Keystone Controls has worked to automate a variety of metals processes, helping producers achieve desired results. Whether you are operating a large integrated steel complex, a precious metal refinery, or something in between, you can rely on our expertise to help you deliver operational efficiency; better equipment and plant availability; and greater well-being for your staff and our environment.

Keystone Metals Capabilities include:

- Aluminum Paste Plant automation
- Carbon recycling Plant automation
- Aluminum Anode Rod Shop automation
- Metal rolling
- Metal strip processing
- New Mills Development to Commissioning and Completion
- Mill audits/performance studies
- Mill optimization services
- Targeted mill upgrades
- Phased mill modernizations
- Melt Shop & Continuous Casting
- Strip Processing & Finishing
- Rod & Bar Mills
- Material Tracking



A black and white photograph of an industrial facility, likely a refinery or chemical plant. The image shows a complex network of large storage tanks, pipes, and structural steel. In the foreground, there are large, curved pipes and a series of vertical tanks. In the background, more industrial structures are visible under a cloudy sky. The overall scene conveys a sense of large-scale industrial operations.

CONFIDENTLY  
CONSTRUCT,  
OPERATE, AND  
MAINTAIN BEST IN  
CLASS INDUSTRIAL  
FACILITIES



# CAPABILITIES

## PLC/RTU/DCS

Looking to automate with a PLC, RTU or DCS? There are a couple of reasons:

- You're adding a new function to your existing control system?
- Maybe you want to Upgrade/migrate your control system hardware to something a little more modern to minimize its total cost of ownership?
- Or you're a project engineer/manager looking to implement a PLC solution as part of a bigger project, and you need an expert partner that will get the job done? Or to act on your behalf to ensure the job gets done?
- Or, you might be searching for someone that can just make it work and put you back in the driver's seat!

At Keystone Controls, we're all about empowering control (both *empowering* control, and *empowering control*). Our singular focus is upon using our expertise (Control System Integration) to put you in the driver's seat, and keep you there!

Some of our Favourites:

BECKHOFF

AB Rockwell Automation

SIEMENS

Schneider Electric

YOKOGAWA

OMRON

Honeywell

ABB

## SCADA/HMI

Monitor and control your plant and equipment through expertly crafted Human Machine Interface Design.

We're passionate about insanely simple Human/Machine interaction. We take no shortcuts when understanding and distilling





the features you need into simple and intuitive interfaces, ensuring you have the visibility and control you need in a package that is a pleasure to use.

At Keystone Controls, SCADA & HMI development is our bread and butter. With a wealth of experience across all major HMI platforms, we're happy to work with your existing supplier, or to provide our expert recommendation on the latest technologies.

Some of our favourites



## EC&I

At Keystone Controls, we deliver the right Control System Solution without the fuss. We take great pride in getting things right the first time while making it look easy, and we nerd out on our ability to deliver turn-key Control system Solutions that are truly plug and play.

To do this, we draw on our extensive field and application experience to develop, deliver and support best in class Electrical, Control and Instrument Engineering Design.

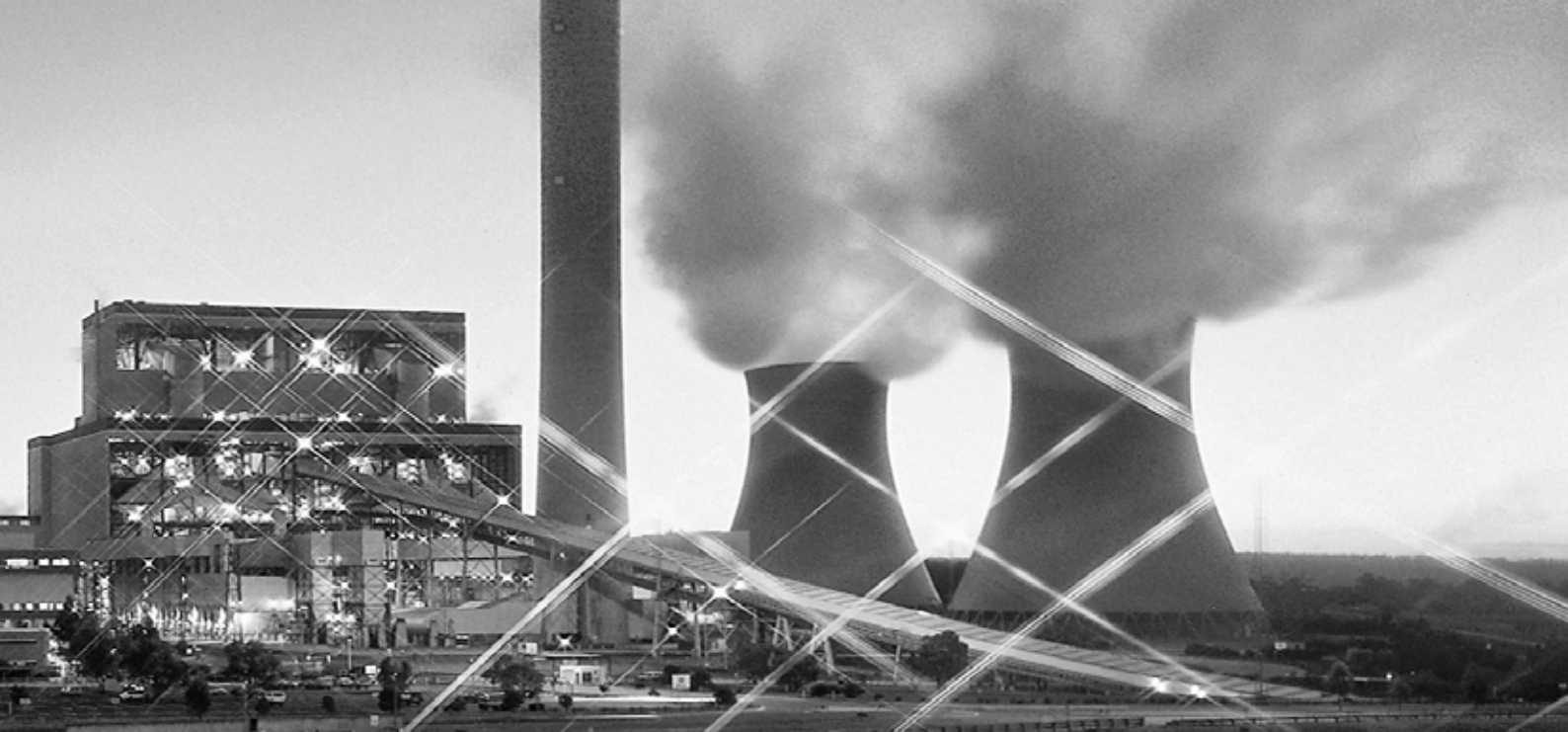
We know what works and what doesn't before we do it. We know how to go about

it to achieve the best possible result... and we've seen your problem a thousand times before!

Whether you require complete Electrical turnkey Project solutions, Design and Integration Services into your project application, maintenance and optimisation of your established plant and equipment, or supply and support of technologically advanced Control System Solutions, Keystone Controls will make it feel easy.

Welcome to the world of Confidence!





## PROJECT MANAGEMENT

At Keystone Controls, our business is about delivering Industrial Control System projects with a single point of responsibility, allowing our key stakeholders to concentrate on their processes, and not on the Control System.

To get things done without the fuss you've come to expect, getting the Project Management part right is key... maximizing implementation efficiency, minimizing project risk, and delivering quality results on time, and within budget.

It makes sense then that Industrial businesses turn to us for professional

Project Execution, expert assessment of project opportunities, Engineering and Project Management support of their project initiatives, or representation to oversee a project through to successful fruition and the satisfaction of all significant stakeholders.

Our extensive experience in the design and delivery of technically demanding Control System Projects renders Keystone Controls an invaluable partner to ensure the professional execution of your next Project.

## CONTROL SYNERGY

In today's complex economy, intelligent information is key. Information must be easily and securely exchanged between diverse platforms... from multiple vendors... through seamless integration of those platforms.

Increasingly, this Control System synergy is facilitated by OPC technologies. There

are more than 4,200 suppliers who have created more than 35,000 different OPC products used in more than 17 million applications. The estimate of the savings in engineering resources alone is in the billions of dollars.

But more recently, direct access to real time data at all levels of the control system, and

# SOLVE COMPLEXITY

We solve your complex Process Control problems, empowering you to make faster and smarter decisions that improve the safety, reliability, efficiency, sustainability and profitability of your plant.

in vastly increased geographies continues to be driven by IoT and Cloud based technologies. The suitability of which has been made possible by surging advances in technologies that facilitate low latency, high throughput data, proven security, and flexible device platforms.

At Keystone Controls, we realise true Control System Synergy through our focus on a range of Control System technologies that improve the integration and efficiency

of the established Control System manufacturers!



## INDUSTRIAL IT

Today, every snippet of plant floor intelligence is collected, synthesized, and then integrated into business information systems for all to see! It provides management with actionable information, facilitating decisions for compelling productivity and profitability improvements. BUT, More information means more noise... making important information the needle in the haystack. This means 2 things:

First, you need an IT Guy that Gets Process Control. Commercial IT guys connect pipes of information. The job of an Industrial IT guy is to connect the right pipes of information, the right data points amongst

various protocols, while implementing the unique security requirements of industrial systems, and achieving the speed, efficiency, and reliability where a problem means much more than a missed tweet.

Second, you need a Process Control guy that Gets Industrial IT. An informed Process Control Engineer who understands the limitations of industrial Information technologies, and that wanting ALL the information is probably ill-advised.

Enter Keystone Controls! At both the plant and corporate level, Keystone Controls retains extensive experience in the engineering and integration of Industrial IT networks.



## VIRTUALISATION

At Keystone Controls, we've always believed in developing our Process Control Systems as far as possible before we lift a screwdriver. We nerd out on our ability to deliver turn-key Control systems that are truly plug and play!

But now... with the rise of Virtual Reality, we can virtually build, energize, and commission our control systems before having to tie our boot laces. This saves time and money

through significantly increased efficiencies from start to finish of Control System Development... Crucially, it means project Critical Paths are significantly shortened... right when you need them to be!



## ENTERPRISE INTELLIGENCE

Life is now a wash of noisy information.... Today, the challenge isn't to FIND the information, it's to determine WHAT information to pay attention to amongst the infinite possibilities.

It's the same for Process Control. Every snippet of plant floor intelligence is collected, synthesized, and then integrated into business information systems for all to see! It provides management with actionable information, facilitating decisions for compelling productivity and profitability improvements. BUT... more

information means more noise... making important information the needle in the haystack...

Enter Keystone Controls! Industrial Businesses turn to us to determine the most efficient and cost effective methods of collecting and communicating process intelligence across the plant floor, and integrating and manipulating this intelligence into company enterprise networks in the facilitation of effective business systems.





FIRST GRP PIPE MADE USING NEW  
SOFTWARE AT PIPE MANUFACTURING  
FACILITY IN ABU DHABI



FIRST SYNCHRONISATION OF COAL  
FIRED UNIT AFTER DCS UPGRADE  
AND POWER STATION REFURBISHMENT  
IN WESTERN AUSTRALIA



FIRST STOCKPILE STACKED USING  
NEW SOFTWARE COMMISSIONED ON  
STACKER AT A NSW COAL TERMINAL.



# VALUES

## RELATIONSHIPS

We build positive, long term relationships with our customers, joint-venture partners, subcontractors, suppliers, and colleagues that are built on trust, respect, and collaboration.

## QUALITY

We are passionate about excellence and doing our work right the first time. Our reputation depends on our delivered value in the eyes of every Client Partner, Employee, Contractor and Supplier.

## ETHICS

We are uncompromising in our integrity, honesty, and fairness.

## HEALTH & SAFETY

We are relentless in keeping people safe from harm, and we provide a healthy work environment.

## SOCIAL RESPONSIBILITY

We improve the quality of life in communities where we work.

## TO DELIVER CERTAINTY

Through a single point of responsibility, we will anticipate our client partner's needs and deliver on every commitment we make.



#### INNOVATION

We develop and apply world-class technology. We listen, learn, and seek out the best ideas. We attack complacency and continually improve.

#### EXCEPTIONAL PEOPLE

We inspire each other with important work full of purpose, challenging development opportunities, and rewarding careers. We

aspire to be the employer of choice in our industry.

#### CULTURE

We actively build a diverse, inclusive, and collaborative work environment where all views are welcomed, openness is encouraged, and teamwork and merit are cornerstones. We are proud of what we do and how we do it- and we enjoy doing it!

## TO EMPOWER CONTROL

To empower control of our client partner's industrial facilities, from the plat floor to the board room, and at every phase of their project, from concept to completion.





TAKE CONTROL

WELCOME TO THE WORLD OF CONFIDENCE  
**WELCOME TO KEYSTONE CONTROLS.**

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