IPS DESIGN





WHERE INNOVATION MEETS INTEGRITY,
SOLVING PROBLEMS WITH PRECISION AND PURPOSE.

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COMPANY OVERVIEW

IPS Design is a specialist electrical engineering and project delivery consultancy providing integrated solutions across the full lifecycle of industrial power and infrastructure projects.

We specialise in Electrical Design and Engineering, Project and Construction Management, delivering practical, operations-focused solutions for complex industrial environments. Our approach is grounded in real-world site experience—ensuring systems are not only construction-ready, but operationally robust, maintainable, and optimised for long-term performance.

IPS Design offers a comprehensive suite of technical services including electrical engineering design and calculations, advanced Computer-Aided Drafting (CAD), construction support, site commissioning, completions, and quality assurance.

ABN: 67 667 059 458

By embedding site and operational insight at the earliest stages of design, we reduce downstream risk, minimise operational downtime, and simplify fault-finding during live operation.

Headquartered in Perth, Western Australia, IPS Design supports clients across the resources, mining, utilities, infrastructure, manufacturing, and energy sectors—delivering projects locally and internationally. Our team combines strong technical capability with a clear understanding of construction and operational realities, enabling us to deliver engineered solutions that perform reliably in the field.

IPS Design is trusted to deliver safe, compliant, and future-ready electrical systems—engineered with precision and executed with integrity.

KEY CAPABILITIES

IPS Design provides electrical engineering and industrial project delivery services across the full project lifecycle, with a strong focus on operational performance, safety, and long-term reliability. Our designs are informed by extensive site and construction experience—ensuring systems are practical to install, easy to operate, and efficient to maintain once commissioned.

We specialise in high- and low-voltage power systems, substations, and protection schemes across mining, resources, infrastructure, and heavy industrial environments. Designs prioritise resilience, redundancy, and fault clarity to minimise downtime and improve operational reliability.

IPS Design has strong capability supporting mining contractors and underground (UG) operations, delivering electrical and automation solutions aligned with construction sequencing, site constraints, and demanding underground conditions. Our experience working directly with contractors ensures designs integrate effectively with vendor-supplied equipment and perform reliably in the field.

Our expertise extends to underground power distribution, materials handling and winding systems, ventilation and pumping infrastructure, PLC and remote I/O architectures, communications networks, and automation systems developed with operator usability, maintainability, and fault transparency in mind.

We also deliver electrical instrumentation, control systems, SCADA integration, and comprehensive drafting and documentation services to support accurate construction, efficient commissioning, and long-term asset management. Functional safety and plant integrity services ensure systems meet regulatory requirements while remaining practical to operate.

Through close collaboration with mining contractors, electrical contractors, equipment manufacturers, and vendor product suppliers, IPS Design bridges the gap between engineering design, packaged equipment, and site execution—delivering robust, compliant, and operations-ready solutions.



SERVICES

ELECTRICAL ENGINEERING

Power Studies
IPS Design delivers comprehensive power system studies that support safe, reliable, and compliant electrical networks across industrial and infrastructure environments. Our expertise spans the full life cycle of electrical system —from design of generation to operational utility distribution networks ensuring networks are robust, maintainable, and aligned with real-world operating conditions.

Automation & Controls
IPS Design delivers automation and control solutions that balance technical performance with operational simplicity. From control philosophy development through to programming, integration, and commissioning, our systems are designed to be intuitive for operators while remaining flexible for future expansion.

Our control strategies prioritise system stability, fault transparency, and ease of troubleshooting—supporting safer, more efficient operations across industrial facilities.

Electrical Desing Drafting
IPS Design provides detailed electrical design and drafting services that are construction-ready and operationally sound. Using advanced CAD tools and proven engineering practices, we deliver accurate, compliant, and build-ready documentation.

Designs are informed by site conditions, access requirements, and maintenance considerations—reducing rework, simplifying installation, and improving long-term system usability.

Electrical Instrumentation
IPS Design provides electrical instrumentation services focused on accuracy, reliability, and operational clarity. Our team designs, installs, calibrates, and commissions instrumentation systems that support safe process control, efficient troubleshooting, and long-term system performance.

Instrumentation layouts and interfaces are developed with operator usability and maintenance access in mind—reducing downtime and improving asset reliability in live operating environments.

Technology & Innovation
IPS Design integrates technology and information systems to support smarter, more connected industrial operations. Our solutions improve data visibility, system interoperability, and decision-making across complex electrical and control environments.

Technology is applied with purpose—enhancing operational insight without introducing unnecessary complexity or maintenance burden.

Plant Integrity & Functional Safety
IPS Design supports plant integrity and functional safety through structured assessments and risk-based engineering solutions. We help clients ensure systems are designed, installed, and operated in accordance with applicable safety standards while remaining practical to maintain and operate.

Our approach balances compliance with real-world operational needs—supporting safe, reliable production without unnecessary complexity.

Mining Contracting & Underground Electrical Solutions
IPS Design provides specialised electrical engineering and automation support for mining contractors operating across underground and surface environments. Our services are tailored to support construction-led projects, fast-track schedules, and integration with vendor and contractor-supplied equipment.

We deliver electrical and control system designs that are practical to construct, easy to commission, and reliable to operate in harsh underground conditions. By embedding site experience and operational understanding early in the design process, we help mining contractors reduce installation issues, minimise commissioning delays, and simplify ongoing fault-finding.

Our underground capability includes power distribution, substation design, ventilation and pumping systems, winding and materials handling infrastructure, PLC and remote I/O architectures, communications, and automation systems suited to confined, high-risk environments. IPS Design works collaboratively with mining contractors to ensure designs align with construction methodologies, safety requirements, and operational objectives.

OEM, Vendor & Contractor Integration Support
IPS Design works closely with electrical contractors, equipment manufacturers, and vendor product suppliers to support the successful integration of packaged plant and equipment into broader electrical and control systems. We provide practical engineering support to ensure vendor-supplied skids, modules, and equipment are electrically compliant, operationally fit-for-purpose, and ready for seamless site integration.

Our experience includes supporting hydraulic skid suppliers, pumping skid manufacturers, OEM equipment vendors, and smaller electrical contractors requiring professional engineering input for design verification, compliance documentation, and system integration.

IPS Design bridges the gap between vendor design, site installation, and client requirements—helping smaller contractors and manufacturers meet project specifications, reduce rework, and deliver equipment that performs reliably once commissioned.

PROJECT SERVICES & SUPPORT

Technical Documentation
IPS Design delivers clear, accurate, and structured technical documentation that supports construction, commissioning, operations, and maintenance activities. Documentation is developed to ensure continuity across project phases and to support efficient asset management throughout the system lifecycle.

Site Consulting
IPS Design offers on-site electrical engineering support to assist clients with installation oversight, technical issue resolution, and informed decision-making during construction and commissioning. Our site involvement helps reduce delays, manage risk, and ensure systems are delivered as intended.

As-Built Drawings
IPS Design delivers accurate as-built documentation that reflects the final installed condition of electrical systems. These drawings support ongoing maintenance, future modifications, and regulatory compliance—providing confidence long after construction is complete.

Project Management and Coordination
IPS Design provides end-to-end project management and coordination services focused on predictable delivery, clear communication, and technical accountability. Our project leaders bring strong site experience, ensuring engineering decisions remain aligned with construction and operational realities.

Site Commissioning
IPS Design provides structured commissioning services to validate that electrical systems are installed correctly, operate safely, and perform in accordance with design intent. Our commissioning approach reduces start-up risk, minimises downtime, and supports a smooth transition to operations.



MAJOR PROJECT HISTORY

For every project, we assess the short-term and long-term advantages of life-cycle costing in relation to the chosen components and system design. This approach ensures that each option is thoroughly evaluated for performance, efficiency, reliability, safety, ease of maintenance, and overall cost-efficiency—aligned with the project brief and budget.

CLIENT	PROJECT DETAILS
Appin VS7 & VS8 – Ventilation Shaft Sinking Project - RedPath Group	Complete Electrical, Controls, and Instrumentation (ECI) design for all shaft sinking infrastructure, including power systems, winding equipment, and auxiliary facilities. Coordination, electrical construction supervision, and oversight of factory acceptance testing. Our team supported the project from early engineering through to commissioning and operational readiness.
Tanami Expansion Project - RedPath Group – Shaft Lining and Equipping	End-to-end ECI design covering all systems required for shaft lining operations, including power distribution, PLC/Remote I/O, winding systems, and supporting infrastructure. Our team provided continuous involvement across the project lifecycle—from design development through site execution, system finalisation, commissioning, and handover.
Oyu Tolgoi - Rio Tinto – Shaft 3 and 4 Sinking Project (Mongolia)	Initially engaged to produce drawing packages and engineering deliverables for all above-ground power distribution, our involvement quickly expanded. We became embedded in the broader project, assisting the client with implementation and construction support

Snowy 2.0 Hydro - Rio Tinto (NSW, Australia)	Completion of the electrical drawing package for the Winder Pilot Plant, used in the initial tunnel refurbishment works.
Syama Underground Power and Automation Project – Syama Gold Mine (West Africa)	Complete electrical design and engineering deliverables required for the implementation of the Syama underground power and automation project.
Syama HV Upgrade Projects – Syama Gold Mine (West Africa)	Complete electrical design and engineering solutions for the 11kV and communications upgrades across the Syama site, while also assisting in site management for the company's 225kV power line project.
Tabakoroni Gold Mine Initiation Project (West Africa)	Complete electrical design and drawing package required for the site mining services facilities and camp infrastructure.
Syama P85 and Oxide Gravity Projects – Syama Gold Mine (West Africa)	Complete electrical design and drawing packages required for process upgrades to the Syama Sulphide and Oxide gravity circuits.
Fixed Storage and Open Bulkhead Storage/Grain Handling Facilities – CBH Group (WA, Australia)	Complete electrical design drawing packages for the manufacture, construction, and refurbishment of both fixed and open bulkhead storage/grain handling facilities across the wheat belt of Western Australia.
Ridee Ganga Graphite Project - Margosa Graphite (Sri Lanka)	Ongoing support for this small mining project for over four years, including establishing camp facilities, general mining operations, site power distribution, and shaft winding systems. We anticipate this partnership will extend into major mining development and mineral processing
Kat Gap Gold Processing Plant - Classic Minerals (WA, Australia)	Compete Design and Construction of Classic Minerals Gold Processing Piolet Plant. Engineering and Design, Site installation and Commissioning.





Mingenew · Photo: CBH Group

RECENT PROJECTS 2026

Two grain handling projects completed this year in the Mid West of Western Australia: electrical re-design and construction for CBH Group at Mingenew, and the electrical and instrumentation scope of a new dust control system at Geraldton Grain Terminal.

CLIENT	PROJECT DETAILS
Mingenew Expansion – Electrical Works – CBH Group (WA, Australia)	Electrical re-design and construction, contracted directly to CBH, for the upgrade of the Mingenew receival site: seven open bulkhead storages and new conveyor loading systems. Scope included site power distribution from a new site main switchboard, conveyor electrical installation, fibre and communications cabling, testing and test records, and onsite construction management. Completed September 2026. *CBH reported the Mingenew upgrade was commissioned two days ahead of schedule, despite wet weather.*
Geraldton Grain Terminal Dust Control System, Grids 1 & 2 (WA, Australia)	Working to the dust system supplier, IPS delivered the electrical and instrumentation scope for a new dust control system serving the road and rail receival grids. Scope included the electrical design package (single line diagrams, schematics, termination and general arrangement drawings, bills of materials), revision and issue of the control system functional specification, PLC programming and Factory Acceptance Testing of the control system, an earthing study, electrical installation delivered with IPS's construction partner, and completions records including the hazardous area dossier. Completed May 2026.



Geraldton Grain Terminal dust collector during installation

OUR TEAM

Our greatest resource. IPS Design is made of highly professional, dedicated, and adaptable people. Our team has extensive project experience and technical expertise in electrical and automation engineering across a range of industry sectors in the global market. Our team provides expert guidance and coordination during all phases of the project, ensuring projects are completed efficiently and to the highest standards.

We pride ourselves on a diverse and inclusive team that partners closely with clients to deliver beyond expectations—providing innovative, practical, and forward-thinking engineering solutions.

Our philosophy centres around nurturing strong client relationships through an innovative and collaborative team approach to projects. We aim to provide innovative, efficient, and sustainable solutions that address the complex challenges of modern industries. We prioritise creating authentic and meaningful connections to deliver extraordinary results by leveraging advanced engineering expertise, strategic practices and solid human relationships. Our management ensures every project exceeds client expectations, setting benchmarks for safety, quality and reliability.



MANAGEMENT



Ryan
The Founder, Director, and Business Development Manager of IPS Design

Ryan is the Founder, Director, and Business Development Manager of IPS Design, bringing over 20 years of global experience in electrical power systems and instrumentation engineering across the mining and industrial sectors. His expertise spans the entire life-cycle of engineering projects, including feasibility studies, detailed design, specification, construction, commissioning, and operational troubleshooting of electrical plants, mining infrastructure, and instrumentation systems.

Ryan has successfully led and delivered complex projects throughout Australia, Africa, and Asia, consistently demonstrating strong capabilities in on-site project execution and construction management. His technical proficiency encompasses high-voltage and low-voltage power systems, control systems, and instrumentation engineering, with a focus on reliability, safety, and regulatory compliance.

Through dynamic, strategic leadership and a steadfast commitment to technical excellence, Ryan fosters a culture of innovation, collaboration, and continuous improvement within IPS Design, empowering multidisciplinary teams to deliver high-impact engineering solutions.



OUR MISSION

Our mission is simple yet powerful: to solve problems, deliver value-driven engineering solutions, and make a meaningful difference. We act decisively, with integrity and precision—empowering industries through smart design, reliable systems, and a commitment to excellence.



WHY IPS

Proven experience delivering complex electrical systems across mining, resources, infrastructure, and industrial sectors

Designs informed by real-world site and operational experience—not theory alone

Early integration of operational requirements to reduce downtime and simplify fault-finding

Systems that are operationally robust, maintainable, and adaptable over their full lifecycle

Collaborative, accountable delivery with clear, practical engineering guidance

Proven experience supporting mining contractors, OEMs, and equipment suppliers with practical, construction-aware engineering and system integration support

ISO-certified management systems supporting consistent quality, safety, and environmental performance across all project phases



Let IPS Design be your trusted partner in powering the future of your operations.



IPS DESIGN

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