

Position Description

Position	HV System, Technical Manager	Reporting Manager	Head of Design and Engineering
Location	Singapore	Department	Design & Technology

Our Company

Zerra DC (Zerra) develops and operates hyperscale data centre campuses across Australia, Japan and India, delivering capacity at scale into markets driven by the growth of cloud and AI. Our flexible campus developments support hyperscale and neocloud organisations, enabling some of the world’s fastest-scaling technology businesses to grow with certainty and ambition.

At Zerra, we empower exceptional people to challenge convention, drive innovation and make a real impact in digital infrastructure. Our culture fuses entrepreneurial agility with global expertise, enabling our teams to deliver results that matter.

We believe that diverse perspectives, inclusive leadership and equitable opportunities are essential to building stronger teams and better outcomes. We are committed to fostering a workplace where everyone feels respected, supported and empowered to thrive.

Zerra is part of AGP, an independently owned investor and asset manager that develops and operates real assets across the energy, digital and real estate sectors.

Job Description

The HV System, Technical Manager leads the design and delivery of high-voltage substations and campus distribution systems across Zerra’s hyperscale data centre portfolio in the APAC region. Acting as an individual technical contributor reporting to the Head of Design and Engineering, this role owns primary substation design, 33kV to EHV reticulation architecture, and utility interconnection coordination across multiple concurrent projects and markets. The role serves as the key technical interface with utilities, regulators, and third-party consultants, ensuring designs meet grid codes, safety standards, and authority approval requirements specific to each jurisdiction. It also integrates HV design with broader data centre electrical architecture, manages design risk across long-lead equipment and regulatory timelines, and drives standardisation that balances capital efficiency with operational flexibility.

Responsibilities

Substation and HV Distribution Design

- Lead conceptual and detailed design of primary substations, including transformer sizing, switchgear configuration, and protection coordination.
- Define campus reticulation architecture for 33kV to EHV distribution serving multiple data halls across expansive sites.
- Develop single-line diagrams, equipment specifications, and loadflow models that balance capital efficiency with operational flexibility.
- Coordinate with utilities on interconnection design, metering requirements, and interface points between utility assets and customer-owned infrastructure.

Multi-Market Delivery Coordination

- Oversee HV design execution across concurrent projects regionally, working with local engineering firms and EPC contractors.
- Ensure designs comply with regional grid codes, safety standards, and authority approval processes specific to each jurisdiction.
- Manage design review cycles with utilities, regulators, and independent verification agencies to meet project milestone dates.
- Establish design templates and standardisation protocols that reduce engineering hours while respecting local code variations.

Stakeholder and Authority Interface

- Serve as technical representative in utility interconnection negotiations, addressing feasibility constraints, cost allocation, and schedule dependencies.
- Lead coordination meetings with transmission operators, distribution network operators, and regional energy authorities.
- Support Development and Legal teams in reviewing utility connection agreements, technical schedules, and performance guarantees.
- Manage relationships with third-party consultants and certification bodies required for statutory approvals and commissioning sign-offs.

Technical Integration and Risk Management

- Integrate HV design with data centre electrical architecture, ensuring seamless handoff between medium-voltage campus distribution and facility-level systems.
- Identify and resolve design conflicts related to space planning, equipment access, cable routing, and operational interfaces.
- Conduct constructability reviews and value engineering assessments to optimise capital cost without compromising reliability.
- Track design risks related to long-lead equipment, supply chain constraints, and regulatory approval timelines, escalating issues proactively.

Experience, Skills and Competencies

Essential Requirements

- Bachelor's degree in Electrical Engineering or Power Systems Engineering.
- 12+ years of experience in high-voltage substation design, transmission interconnection, or utility-scale power distribution.
- Demonstrated expertise with 33kV to EHV systems, including transformer design, switchgear selection, and protection relay coordination.
- Direct experience coordinating HV design delivery across at least two APAC markets (Korea, Japan, Australia, India, or Singapore).
- Proficiency with electrical design software including ETAP, SKM PowerTools, or equivalent loadflow and short-circuit analysis platforms.
- Strong understanding of IEC standards, regional grid codes, and utility interconnection processes.
- Proven ability to manage multiple concurrent projects, coordinate across engineering disciplines, and meet aggressive delivery schedules.
- Excellent written and verbal communication skills in English; ability to translate technical requirements into stakeholder-appropriate language.

Preferred Qualifications

- Experience with hyperscale data centre campuses exceeding 100MW total IT load.
- Professional Engineering licence or equivalent certification in an APAC jurisdiction.
- Working knowledge of Korean, Japanese, or other regional languages relevant to AGP's operating markets.
- Familiarity with renewable energy integration, including wind and solar interconnection to customer-owned substations.
- Prior experience with design-build or EPC project delivery models.
- Background in commissioning oversight or operational handover for critical infrastructure.