

ABOUT POWERQ

PowerQ is certified NEBB (USA); Systems Cx for Green Building, Cleanroom and Sound, ISO 9001, OHSAS 18001 and BizSafe Star.

We specialise in Engineering, Testing and Commissioning of plant & utilities systems.

Over a decade, we have delivered more than 390 projects including several Tier 3 Data Centres, operating safely & efficiently Asiawide.



➤ **DYNAMIC TEAM**
Expertise in T&C, EMC & RAMS,
and Design and Engineering

➤ **SOFTWARES**
Design and Simulations such as E20, CFD,
AutoCad, Revit, ETAP, VISIO, MS Project,
RAMS, DOORS

➤ **TRAINING LAB**
Simulations and instruments verification

➤ **INSTRUMENTS**
More than 300 instruments for IAQ,
Air Test, Electrical, EMC/EMF, Power
Quality, Hydraulic and NDT



DATA CENTRES
SERVICES



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DATA CENTRES

REFERENCES

PROJECTS & CLIENTS

Microsoft
Google
Global Switch
Singtel
Equinix

COMMISSIONING (Cx)

- Cx Plan
- Document Review for Commissionability
- Site QA/QC
- Witness Testing
- LEED Cx
- Cx Scripts
- O&M Manual
- Training Plan
- Scheduling

MECHANICAL TESTING

- Air & Water Balancing
- Room Leak Integrity
- Equipment Capacity
- Functional Testing
- Sound Measurement
- Vibration
- IAQ

ELECTRICAL TESTING

- Power Quality & EMC/EMF
- Electrical Relay Setting
- Thermal Imaging

PERFORMANCE TESTING

- CFD Simulation
- Heat Load Test
- Pre RI Test
- System Integration
- Hot/Cold Smoke Test
- Airflow Simulation
- Reliability Test
- Green Mark

EXPERTISE

SYSTEM ASSURANCE & RAM

- System & Safety Assurance (RAMS)
- Safety Hazard Analysis/PHA/SSHA/OSHA/SIL
- FMECA/FTA Analysis
- Reliability Demo & Test Plan
- Availability & Maintainability Plan

POWER DESIGN & SIMULATION

- Power System Review
- Load Flow
- Short Circuit
- Voltage Drop
- Harmonic
- Relay Coordination
- Motor/Generator
- Arc Flash

EMC ANALYSIS

- Risk & Hazard Analysis
- Control Plan
- Test Plan
- Mitigation
- Management Plan
- Analysis