

RESOURCES

DYNAMIC TEAM

Expertise in:

- Testing & Commissioning
- EMC and RAMS
- Design and Engineering

SOFTWARES

Data Log, Design and Simulations, such as E20, CFD, AUTOCAD, REVIT, ETAP, VISIO, MS Project, RAMS, DOORS

TRAINING LAB

- Simulation
- Instruments Verification

INSTRUMENTS

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



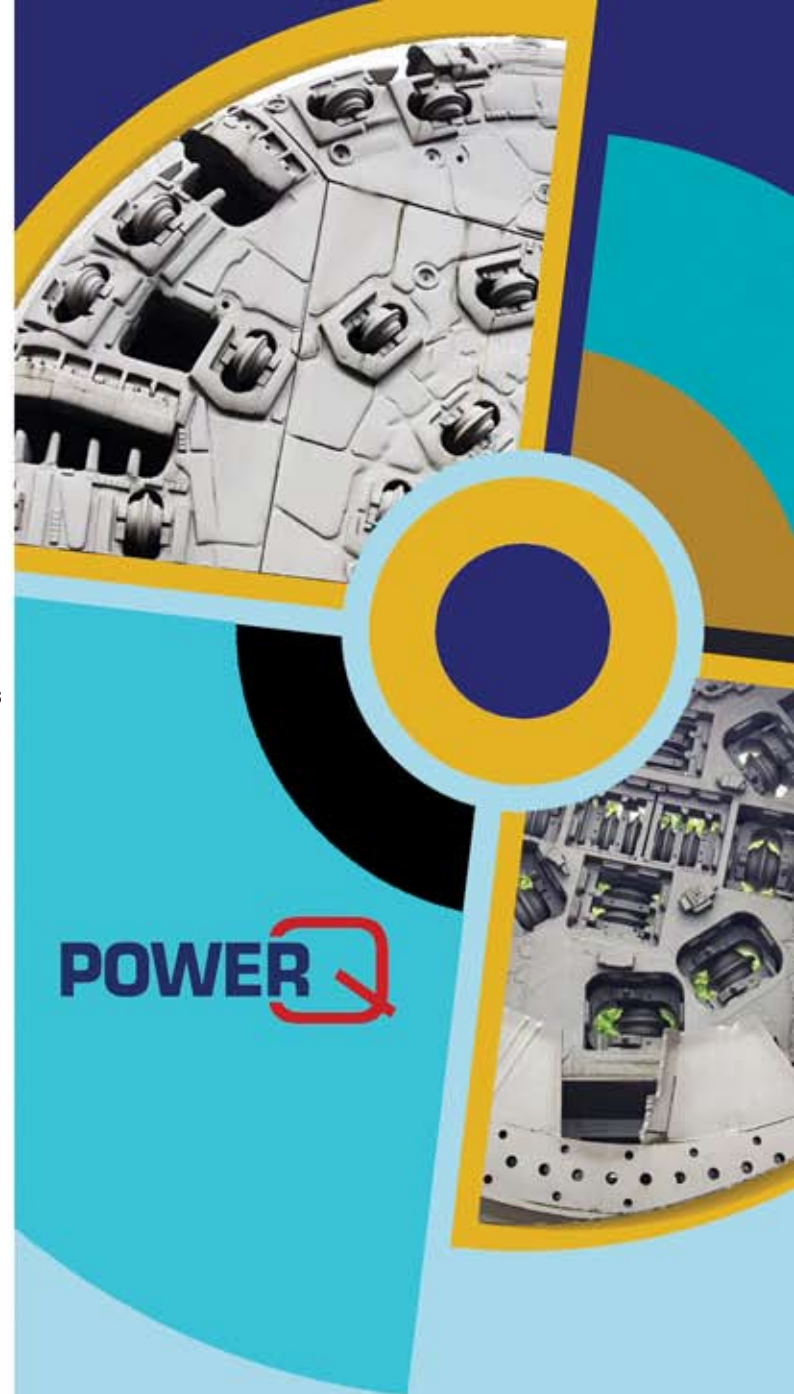
ABOUT POWERQ™

PowerQ is certified ISO 9001, OHSAS 18001 and BizSafe Star.

We specialise in Engineering, Testing and Cx of plant & utilities systems. Over a decade, we have delivered more than 390 projects, operating safely & efficiently Asiawide.

Projects delivered in following sub-sectors:

- LRT
- MRT
- Airports
- Metro, Bus Depots
- Cable & Utilities Tunnel
- Subsea Road Tunnel
- LNG/Oil Terminal
- Shipyards/Cruise Terminals



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Rail & Transport Infrastructure



POWER EXPERTISE

SYSTEM ASSURANCE & RAMS

- SA/RAMS Plan
- Safety Hazard Analysis/ PHA/SSHA/OSHA/SIL
- FMECA/FTA Analysis
- Reliability Demo & Test Plan
- Availability & Maintainability Plan
- RAMS Analysis

EMC ANALYSIS

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

TRACTION POWER DESIGN & SIMULATION

- Load Flow Studies
- Short Circuit Studies
- Voltage Drop Studies
- Traction Power Simulation
- Harmonic Study
- AC/DC Relay Coordination
- DC Design
 - Rectifier
 - Traction Transformer
 - Third Rail
- Stray Current Design
- ETTS/Blue Light Station
- Touch Voltage System

TESTING & COMMISSIONING

- Tunnel Ventilation/Jet Fans
- Water MIST System
- Airborne Contamination Monitoring System
- Hot/Cold Smoke Test
- Linear Heat Detection System
- Power Quality & EMC/EMF Test
- Traction Power Monitoring
- Electrical Relay Setting
- Stray Current Testing
- Station/Room Leak Integrity Test
- Sound & Vibration
- Reliability Demo Test
- MEP T&C
- MEP Control/SCADA Integration Test



Changi Airport T4
KKIA Riyadh T5
NAIA Philippines T3
Ulu Pandan Depot
Wenya Depot
Mandai Depot
Vopak Terminal

Singapore Circle Line
Singapore Downtown Line 2
Singapore Downtown Line 3
Singapore-Malaysia MRT Link
Jakarta LRT Line 1
Riyadh Metro Line 1
Karimun Yard, Indonesia
SLNG Terminal

PROJECTS

Singapore International Cruise Terminal
Singapore East-West 1 400kV Cable Tunnel
Marina Coastal Expressway (Subsea) Tunnel

CLIENTS

ARUP	CMC Ravenna	Obayashi
AECOM	Lum Chang	Guthrie
TYLin	McConnell Dowell	BEMCO
KTC	Samsung	Hitachi
	SKEC	China Constr.
		PT Saipem