

MAINTENANCE MAXIMISE YOUR ASSETS VALUE

Maximise assets value is paramount for mission critical facilities.

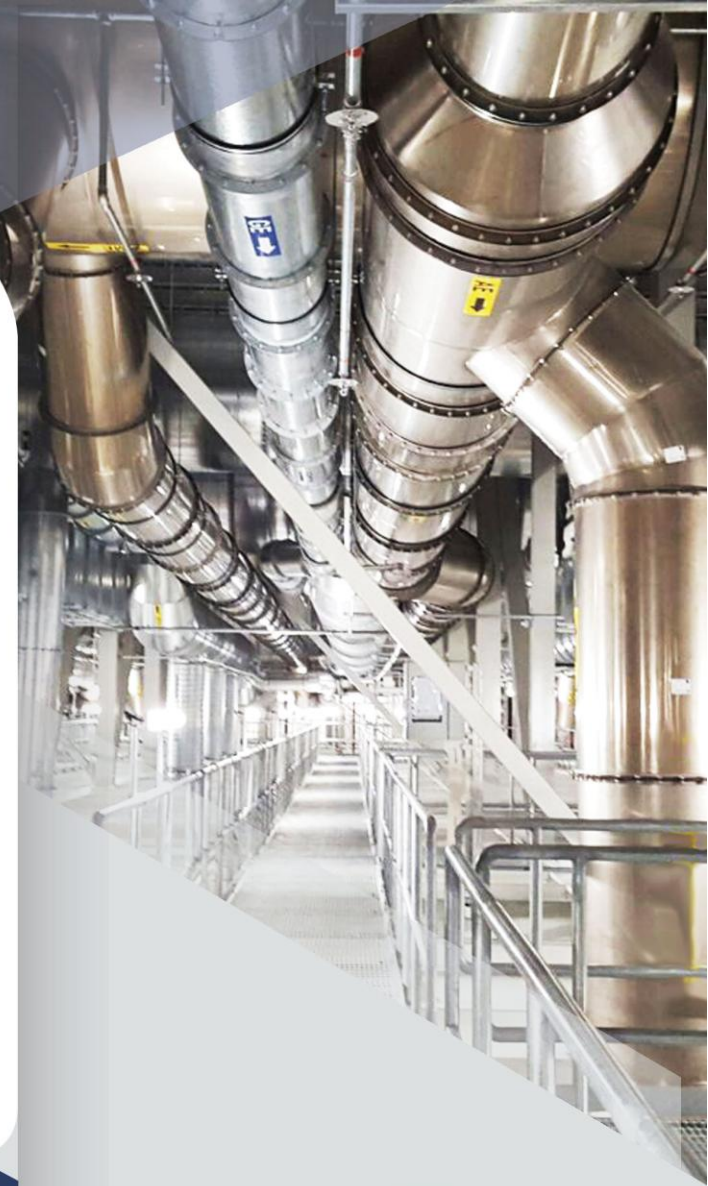
Most machines produce some signature over time that indicate a developing problem.

In order to predict machinery and component failure, and diagnose problem, PowerQ provide various Condition Based Maintenance services to ensure safety and reliability of the engineered systems in compliance to CFR21 Part 11, SEMI 47 and GMP Validation.



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OPERATION & MAINTENANCE

MECHANICAL, NDT

Vibration Test
Acoustic Emission Test
Pipe Thickness Test
Flow Rate Testing & Monitoring in pipes
Exhaust Gas Emission Test

HVAC

Room Temperature/RH Logging
Heat Stress Test
IAQ investigation problem (Mould etc)
Pressure regime

OUR RESOURCES

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

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

O&M SERVICES

ELECTRICAL

PowerQ Quality Monitoring
Thermal Imaging
Transformer Oils
EMF Testing and Monitoring

AUDIT & VALIDATION - ELECTRICAL

- Relay Protection
- Power Quality
- EMC/EMF
- Electrical safety:
 - Arc Flash Studies
 - ESOR
 - O&M Practices Review
- Electrical Condition Assessments:
 - Motor, Transformer, Generator, Cable, Busway, VFD, UPS

AUDIT & VALIDATION - MECHANICAL

- HVAC validation for Labs, Cleanroom, Pharma
- Mechanical Condition Assessments:
 - Piping
 - Pressure vessel
 - Compressor
- Environmental Acoustic
- NEA Noise Test & Assessment
- Life Cycle Assessment and Prediction
- Accident, Explosion and Fire Investigation:
 - Root Case Analysis, Fault Tree Analysis & Expert witness
- O&M Manual Preparation,
- Critical Machine Database
- Lubrication Programme Review



POWER

