

Asset Details

- Asset Name: Water treatment pump 1
- Maker: Ebara
- Model: EVMSL64-5_2-30
- Rated Power: 30.0 kW
- Rated Voltage: 400.0 V
- Location: PUB Station Bedok

Performance Summary

- Data Period: 2025-10-01 to 2025-11-30
- Total Power Consumption: 24.5 MWh

Parameter	Average	Min	Max	Std Dev
Power Consumption (kWh)	23.2	22.02	28.33	1.28
Temperature DE (°C)	59.03	55.0	72.22	3.53
Temperature NDE (°C)	59.32	55.28	72.58	3.55
Vibration DE (mm/s RMS)	3.89	3.3	5.55	0.46
Vibration NDE (mm/s RMS)	3.97	3.37	5.66	0.47

Operational Status

- Power consumption trend: flat with stable operation at 23.2 kWh average
- Temperature trends: flat for both DE and NDE sides with consistent thermal performance
- Vibration trends: flat for both DE and NDE sides with stable mechanical operation
- Recent readings show elevated vibration levels approaching 5.55 mm/s RMS maximum values
- All signals demonstrate stable operational patterns with low variability

Risk Assessment

- Vibration levels per API 610: Both DE (3.89 mm/s RMS average, 5.55 mm/s RMS max) and NDE (3.97 mm/s RMS average, 5.66 mm/s RMS max) operate within Preferred Operating Region (0.28-5.0 mm/s RMS) but maximum values approach Alert - Allowable Operating Region threshold (5.0-6.5 mm/s RMS)
- Temperature monitoring shows elevated readings with maximums at 72.22°C (DE) and 72.58°C (NDE) indicating thermal stress conditions
- Power consumption remains stable within normal operating parameters with minimal deviation
- Asset operates within acceptable limits but requires monitoring due to vibration peaks near API 610 alert thresholds and elevated temperature extrema