

Asset Details

- Asset ID: PMP01
- Asset Name: Water treatment pump 1
- Maker: Ebara
- Model: EVMSL64-5_2-30
- Rated Power: 30 kW
- Rated Voltage: 400 V
- Location: PUB Station Bedok

Performance Summary

- Data Period: 2025-06-01 to 2025-07-31
- Total power consumption: 33.7 MWh
- Daily average power consumption: 552.1 kWh

Parameter	Average	Min	Max	Std Dev
Operating Power	23.0 kW	22.02 kW	25.16 kW	0.78 kW
Temperature DE	59.25°C	55.0°C	65.0°C	2.98°C
Temperature NDE	59.55°C	55.28°C	65.33°C	2.99°C
Vibration DE	3.76 mm/s RMS	3.3 mm/s RMS	4.18 mm/s RMS	0.26 mm/s RMS
Vibration NDE	3.84 mm/s RMS	3.37 mm/s RMS	4.26 mm/s RMS	0.26 mm/s RMS

Operational Status

- Operating power shows flat trend with stable performance within normal operating range
- Temperature DE shows down trend from 2025-06-01 to 2025-07-31 with stable operation
- Temperature NDE shows down trend from 2025-06-01 to 2025-07-31 with stable operation
- Vibration DE shows flat trend with consistent performance throughout the monitoring period
- Vibration NDE shows flat trend with stable vibration levels
- All parameters demonstrate normal operational stability with minimal fluctuations

Risk Assessment

- Pump drive end overall vibration velocity RMS operates within API 610 Preferred Operating Region at 3.76 mm/s RMS average, well below 5.0 mm/s RMS Alert threshold
- Pump non drive end overall vibration velocity RMS operates within API 610 Preferred Operating Region at 3.84 mm/s RMS average, well below 5.0 mm/s RMS Alert threshold
- Pump drive end temperature maintains acceptable levels at 59.25°C average with maximum 65.0°C
- Pump non drive end temperature maintains acceptable levels at 59.55°C average with maximum 65.33°C
- Current vibration and temperature levels indicate low operational risk with all parameters operating within safe limits according to API 610 standards for pumps below 300 kW