

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: 2025-10-01 to 2025-11-30
- Total power consumption: 34.3 MWh
- Daily average power consumption: 562.5 kWh

Parameter	Average	Min	Max	Std Dev
Operating Power	23.44 kW	22.02 kW	25.16 kW	0.92 kW
Temperature DE	60.25°C	55.0°C	65.0°C	2.52°C
Temperature NDE	60.55°C	55.28°C	65.33°C	2.53°C
Vibration DE	3.82 mm/s RMS	3.3 mm/s RMS	4.18 mm/s RMS	0.27 mm/s RMS
Vibration NDE	3.89 mm/s RMS	3.37 mm/s RMS	4.26 mm/s RMS	0.27 mm/s RMS

Operational Status

- All monitored parameters show flat trends throughout the 2025-10-01 to 2025-11-30 period
- Operating power remains stable with minimal fluctuation between 22.02 kW and 25.16 kW
- Temperature readings at both DE and NDE sides demonstrate consistent operation with standard deviations of 2.52°C and 2.53°C respectively
- Vibration levels maintain steady state operation with low standard deviations of 0.27 mm/s RMS at both measurement points
- Asset demonstrates normal operational stability with no significant intermittent spikes or dips observed

Risk Assessment

- Pump drive end overall vibration velocity RMS and pump non drive end overall vibration velocity RMS readings fall within API 610 Preferred Operating Region (POR) with maximum values of 4.18 mm/s RMS and 4.26 mm/s RMS respectively, well below the 5.0 mm/s RMS Alert threshold
- Pump drive end temperature and pump non drive end temperature levels remain within acceptable operating ranges with maximum readings of 65.0°C and 65.33°C
- All vibration measurements consistently operate in the safe zone according to API 610 standards for pumps below 300 kW
- Current operational parameters indicate low risk profile with stable performance across all monitored signals
- Ebara equipment demonstrates reliable operation within manufacturer specifications and industry standards