

**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 low standard deviation of 0.92 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 exhibit stable performance with minimal variation, standard deviations of 0.27 mm/s RMS for both DE and NDE
- Recent data points indicate normal operational continuity without significant fluctuations

**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
- Ebara threshold data not available for comparison
- Current vibration and temperature parameters indicate low operational risk with stable performance characteristics
- Continue routine monitoring as all parameters remain within normal operating zones