

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: 24.5 MWh
- Daily average power consumption: 401.6 kWh

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

Operational Status

- All monitored parameters show flat trends during the 2025-10-01 to 2025-11-30 period
- Operating power remains stable with minimal fluctuation around rated capacity
- Temperature readings at both drive end and non-drive end demonstrate consistent performance
- Vibration levels at both ends maintain steady operation within acceptable ranges
- Recent data shows normal operational patterns with no significant spikes or dips

Risk Assessment

- Pump drive end overall vibration velocity RMS operates within API 610 Preferred Operating Region with maximum 5.55 mm/s RMS below the 6.5 mm/s RMS danger threshold
- Pump non drive end overall vibration velocity RMS remains in acceptable range with maximum 5.66 mm/s RMS, approaching but not exceeding API 610 danger zone
- Pump drive end temperature and pump non drive end temperature show elevated readings with maximum values of 72.22°C and 72.58°C respectively
- OEM threshold not available for temperature comparison
- Vibration levels indicate stable mechanical condition within API 610 standards for pumps below 300 kW
- Temperature monitoring should continue as current levels approach operational limits