

# Daily OEE Trend Analysis: Baseline vs Post-Implementation

Tracking operational efficiency improvements over time

# OEE Trend Visualization

# Daily OEE Trend – Baseline (Jan 2025)



## Overall OEE Baseline

The baseline OEE for January 2025 averages around 0.67 with daily fluctuations due to operational inefficiencies.

## Availability Challenges

Extended unplanned downtimes of 90 to 120 minutes per shift reduce overall equipment availability.

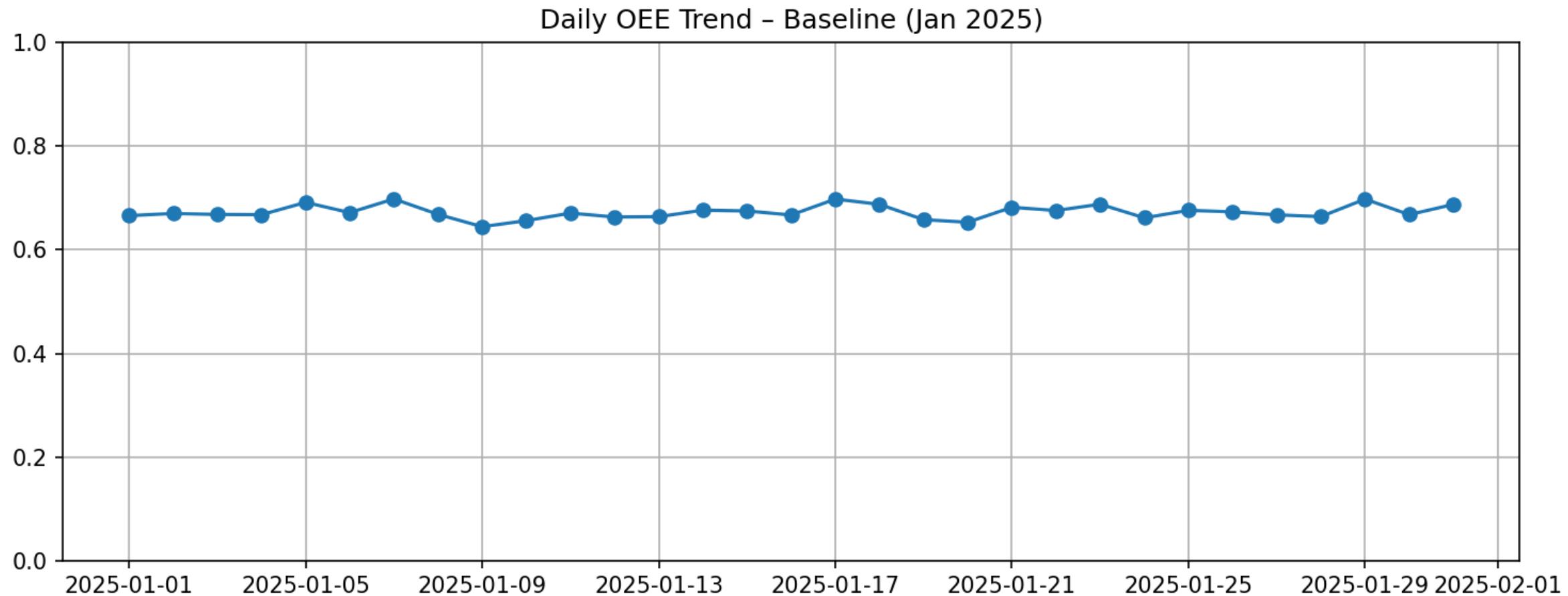
## Performance Limitations

Performance ratios between 0.90 and 0.95 reflect cycle-time inefficiencies and manual coordination delays.

## Quality Rates

Quality rates range between 92% and 94%, impacted by lack of real-time analytics and feedback.

# Daily OEE Trend – Baseline (Jan 2025)



# Daily OEE Trend – Post (Jan 2026)



## Improved Equipment Availability

Downtime reduced to 45–60 minutes per shift via predictive maintenance and early failure detection alerts.

## Enhanced Performance Ratios

Performance improves toward ideal throughput through better machine coordination and reduced idle times.

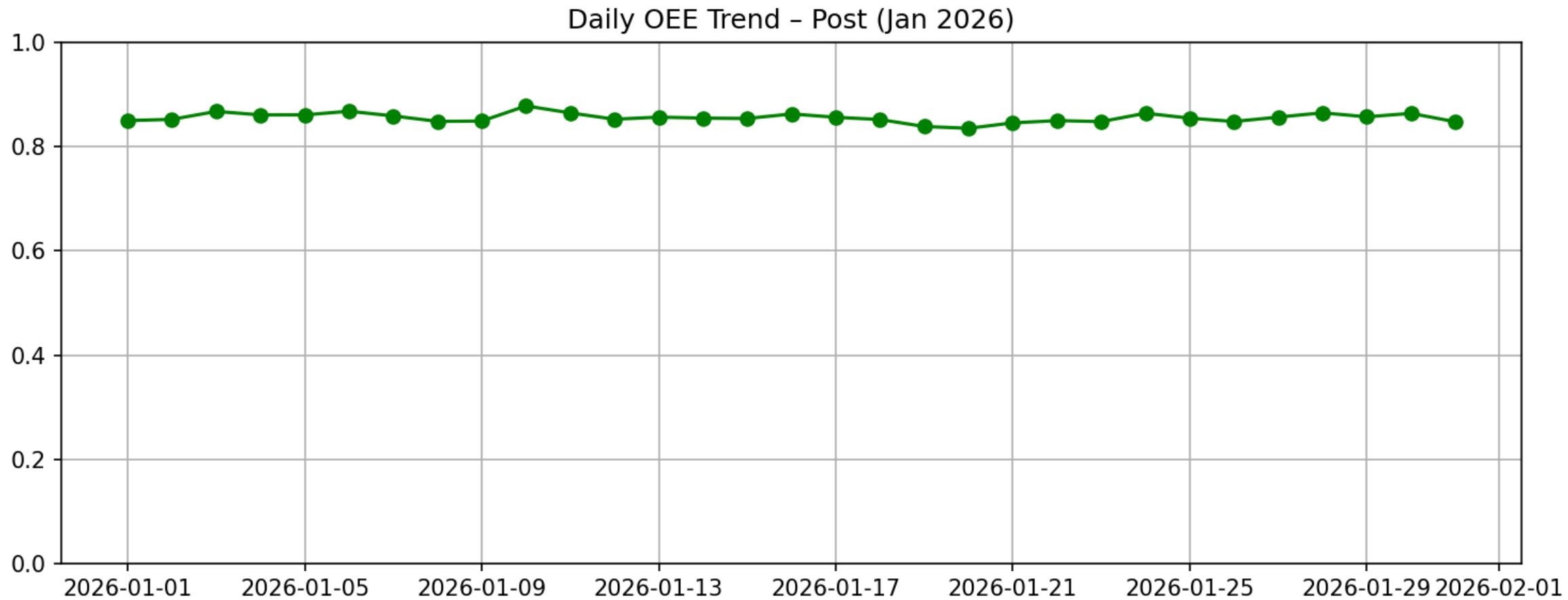
## Quality Rate Improvements

Real-time anomaly detection and digital work instructions boost quality rates to 95–96.5%.

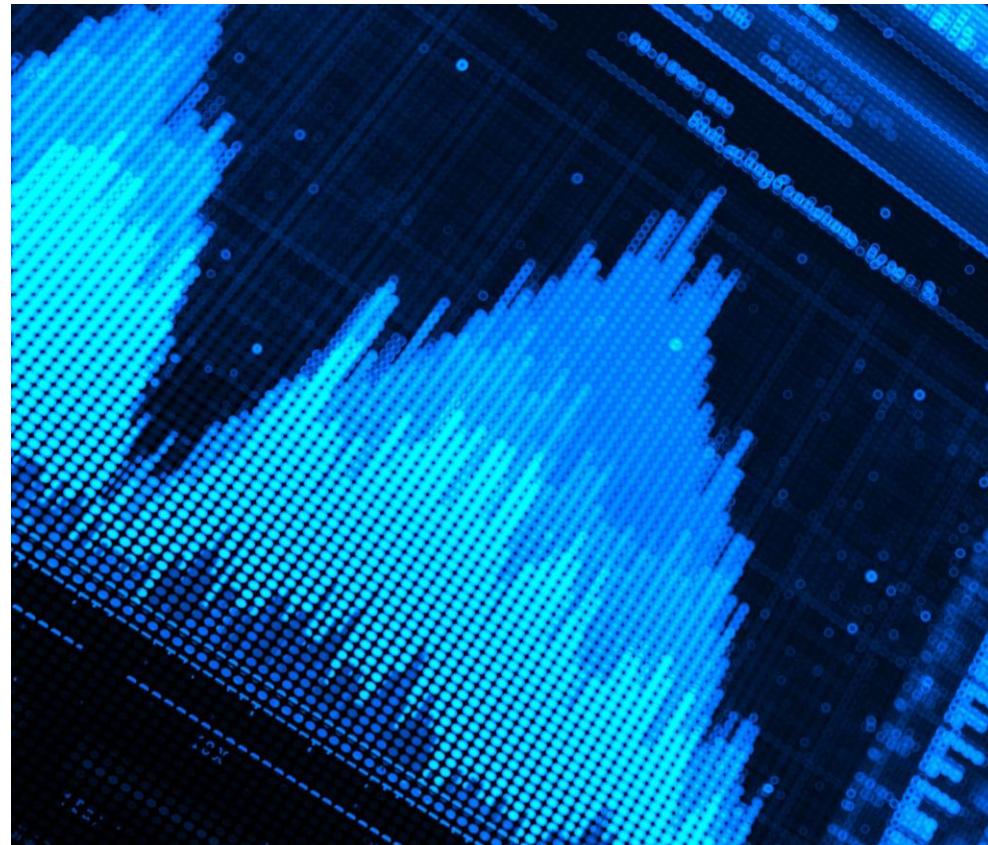
## Consistent Process Stability

Reduced variability and uniform daily OEE demonstrate stable, resilient, and integrated operations.

# Daily OEE Trend – Post (Jan 2026)



# Daily OEE Trend – Baseline vs Post (Overlay)



## Baseline OEE Performance

Baseline OEE curve shows lower, erratic performance with frequent dips due to equipment and operational issues.

## Post-Implementation OEE Improvements

Post-implementation curve is higher, smoother, showing improved performance from predictive maintenance and real-time monitoring.

## Impact of Digital Transformation

Digital workflows reduce variance and proactively address process anomalies, boosting overall system robustness.

## Overall OEE Performance Shift

Overlay visualization highlights a 26% mean OEE increase demonstrating significant operational improvements.

### Values -

- Mean OEE (baseline Jan-2025): **0.6692**
- Mean OEE (post Jan-2026): **0.8440**
- Relative lift: **+26.11%**

## Daily OEE Trend – Baseline vs Post Overlay (Overlay of Jan 25,26)

