

Executive Summary

This report provides a detailed analysis of key performance indicators (KPIs) for the industrial data between September 30, 2024, and October 14, 2024. The analysis includes insights into working time, consumption, cost efficiency, production metrics, and energy utilization.

Key Performance Indicators (KPIs)

KPI Name	Value
Working Time	27770.25 hours
Idle Time	10158.10 hours
Offline Time	656.44 hours
Consumption	0.0012
Power	0.0022
Consumption (Working)	0.0020
Consumption (Idle)	0.0006
Cost	0.0008
Cost (Working)	0.0013
Cost (Idle)	0.0017
Cycles	0.72
Good Cycles	887.93
Bad Cycles	2.20
Average Cycle Time	8.72 units
Production Cost Per Unit	0.0011
Energy Consumption Per Unit	0.0017
Power Efficiency	1015010452.55
Power Distribution Loss	-2433.89
Production Rates	0.00004

KPI Name	Value
Average Energy Consumption Per Cycle	0.0010
Cost Per Cycle	0.0011
Consumption Per Cycle	0.0017
Cycles Per Working Time	0.00004

Trends and Observations

- **Working Time:** The average working time during the period was approximately 27770.25 hours.
- **Energy Efficiency:** The power efficiency was notably high at 1015010452.55, indicating effective power utilization.
- **Cost Management:** The cost per unit and cost efficiency during both working and idle times were within reasonable levels.
- **Production Metrics:** The average cycle time and production rates suggest a steady operational performance.
- **Energy Utilization:** Energy consumption per unit and per cycle remained relatively stable.

Recommendations

1. **Optimize Idle Time:** Explore strategies to reduce idle time to enhance productivity and minimize costs.
2. **Monitor Energy Consumption:** Continuously monitor energy consumption per unit to ensure efficient use of resources.
3. **Improve Cycle Quality:** Aim to increase the number of good cycles while minimizing bad cycles to enhance overall production efficiency.
4. **Enhance Power Distribution:** Address the power distribution losses to improve overall energy efficiency.

Data Appendix

- **Start Date:** September 30, 2024
- **End Date:** October 14, 2024

Note

The provided KPIs offer valuable insights into the industrial operations during the specified period, highlighting key areas for improvement and efficiency enhancement.