AVEVA | SELECT CALIFORNIA

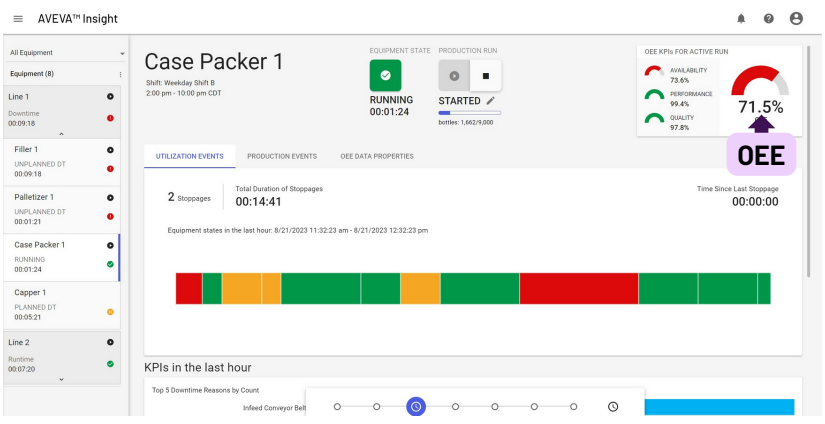
OEE: OVERALL EQUIPMENT EFFECTIVENESS

Simple Solutions

Problem Statement

OEE (Overall Equipment Effectiveness) is a "best practices" metric that identifies the percentage of planned production time that is truly productive. An OEE score of 100% represents perfect production manufacturing:

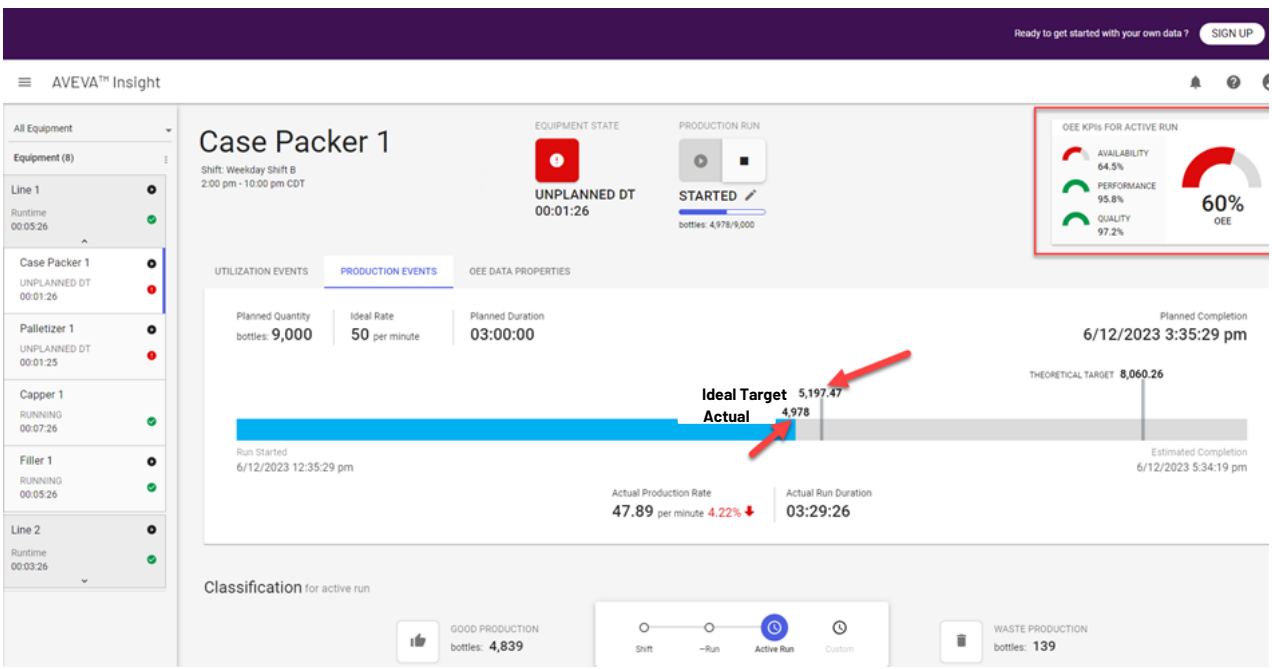
- With no downtime (**A**vailability)
- As fast as possible (**P**erformance)
- Only good parts (**Q**uality)



OEE = A x P x Q

OEE is a great tool for managers, but can be too abstract for plant floor employees. Supplemental metrics can be implemented to give more tangible operational goals:

- **Target**: a real-time production target driven by the planned rate of production
- **Actual**: the actual production count
- **Efficiency**: ratio of *Target* to *Actual*; how far ahead or behind production is running
- **Downtime**: accumulated unplanned stop time for the shift



Solutions

AVEVA Insight (Cloud)

- Lightweight performance and OEE solution.
- Operators can manually enter downtimes via mobile devices.
- Rapid time-to-value with short implementation time frame.
- Integrates with control system(s) and BI Reporting. (Power BI, Tableau, etc.)
- Ideal for users looking to easily gain insight into line and equipment performance.

AVEVA Model-Driven MES (On-Premise)

- Full-featured Performance and OEE module.
- Allows for growth into a full-featured MES. (Manufacturing Execution System)
- Model-Driven MES delivers templates to reduce traditional Performance / OEE implementation effort.
- UI/UX fully configurable to adapt to individual business / plant requirements.
- Ideal for customers who prioritize flexibility and envision future requirements of order execution, track and trace, scheduling, quality, and integration with other business systems. (ERP, LIMS, WMS, etc.)