

Unlock Plant Data to Transform Chemicals Production

with Sight Machine on Azure

Chemical manufacturers generate a flood of production data, but just a trickle of insight.

Sight Machine provides a single enterprise-wide data foundation for operations and analysis. Our streaming platform transforms operational data into useful information, giving every stakeholder a single, dynamically updating view of production for powering more agile and resilient production environments. With system-wide visibility, operators, engineers and manufacturing leaders can gain new insights into the relationships between process units, ancillary operations such as energy, or even an entire network of vertically integrated plants.

Key Challenges in Chemicals Production

- Equipment availability and downtime
- Maximizing raw material utilization
- Decreasing energy consumption and carbon footprint
- Reduce time and cost to solve production issues

Sight Machine Use Cases and Impact

- ✓ Asset Management
- ✓ Process Management
- ✓ Sustainability

- **Maintain uptime:** Continuous, system-wide asset health monitoring, anomaly detection, and predictive analytics
- **Improve efficiency and quality:** Optimize process control through machine learning, minimizing production variability
- **Minimize energy use:** Recommend process configurations and reduce overall carbon footprint
- **Rapid root-cause detection:** All data is contextualized and available for rapid hypothesis testing

Sight Machine and Microsoft are trusted by leading Chemical manufacturers to improve profitability, productivity and sustainability with production data across the enterprise



Asset Health

Industrial Conglomerate in Japan

Multi-million annual savings by predicting machine outages



Process Optimization

Paints and Coatings in India

7% increased throughput by real-time bottleneck reporting and process scheduling optimization



Sustainability

Fertilizer in Europe

3% reduction in SO₂ footprint and indirect greenhouse gas emissions

