Creating the Refinery of the Future

Texmark, Deloitte, and an ecosystem of technology providers harness digital disruptors to help drive profitability with predictive maintenance

THE PROJECT

A VISION to become the Refinery of the Future

4 DIGITAL DISRUPTORS in play

- Internet of Things
- Advanced Analytics
- Edge Computing
- Artificial Intelligence

$1M initial investment with potential for $5-10M to cover all critical assets

“The project

“‘When it comes to digital transformation, it doesn’t come to an end, it continues. We will never stop learning.’”
– Doug Smith, CEO, Texmark Chemicals

THE DELIVERY

ECOSYSTEM PLAYERS INVOLVED

- Deloitte
- OSIsoft
- Attunity
- National Instruments
- Flowserve

21 SKILLED RESOURCES UTILIZED

0 PRODUCTION INTERRUPTIONS

A PHASED APPROACH

PHASE 1

Established digital foundation by engaging edge-to-core connectivity and implementing location-based services

PHASE 2

Integrated HPE Edgeline Converged IoT platform enabling high-speed data capture analytics

PHASE 3

Engaged ecosystem to deliver turnkey IoT solution featuring predictive maintenance and asset monitoring

IMPACT

Predictive maintenance increases mean time between failures and helps identify root causes, for overall

20 PERCENT EXPECTED REDUCTION IN DOWNTIME

Target 0 SAFETY INCIDENTS and unplanned outages

Potential to REDUCE THE 1,000 HOURS PER YEAR currently spent conducting walk-downs and vibration analysis to determine malfunctions

Expected 50 PERCENT REDUCTION in planned maintenance costs

WHAT OUR CLIENTS HAVE TO SAY

‘Deloitte was a big part of educating us on how technology would, in fact, enhance what we are doing, not get in the way or complicate things, but instead streamline our operations.’
– Linda Salinas, VP of Operations, Texmark Chemicals

“Deloitte was absolutely focused on business outcomes. They had such a wealth of knowledge of the economics of digital manufacturing leveraging IoT and what we’re trying to accomplish here at the Refinery of the Future. What we’re trying to do here was something that hadn’t been done before and they’re really well suited to do that.”
– Doug Smith, CEO, Texmark Chemicals

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