



REDUCING COSTS AT GE POWER WITH GE BRILLIANT MANUFACTURING

GE Power

- ▶ Global network of plants producing gas turbines, steam turbines and components
- ▶ Turbine assembly and component manufacturing often mixed in same plants
- ▶ A need exists for greater visibility on the shop floor



Customer Challenge



Overall need to reduce costs:



Optimize equipment efficiency



Increase operator effectiveness



Decrease labor costs



Minimize energy consumption and overhead

GE Brilliant Manufacturing Solution



Data aggregated in Industrial Gateway Server (IGS) to allow for visibility across machines



Data Stored in Historian



Visualized via CIMPLICITY—to provide visualization and control—from single machines to plant locations around the world—to drive improved decision making



Field Agent connects the machines and gathers the data



Predix allows easy data configuration across multiple machines—and eventually plants worldwide—for enhanced insight and analytics



Connected 60 devices on shop floor



Made MT Connect-compliant to monitor asset health and enable operators to correct issues quickly

GE software solutions deployed:

- Efficiency Analyzer
- Discrete Manufacturing Software
- Plant Applications
- CIMPLICITY
- Production Manager
- Field Agent
- Predix

Annualized results



1-hour cycle time reduction from installing redundant blade on cutting tool

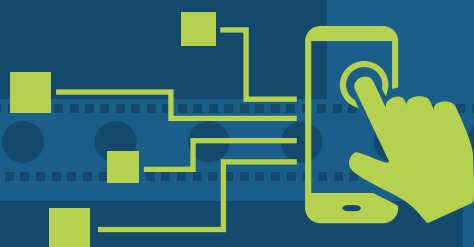


\$68k in cost savings on milling machine



15% uptick in milling machine utilization over 5 months

Brilliant Manufacturing plans



Projected results

Connect all **400 devices** in the shop

1.6 year payback period

Connect to robotic systems, air compressors and coolant filtration for **greater process visibility** across the plant

\$67M–3 year global benefits across all GE Power & Water sites

Find out how GE Brilliant Manufacturing can make you a 21st century manufacturing powerhouse. Ready to get started?

Visit www.ge.com/digital/brilliant-manufacturing

or call 1-855-YOUR1GE / 1-855-968-7143.



About GE Digital

GE Digital connects streams of machine data to powerful analytics and people, providing industrial companies with valuable insights to manage assets and operations more efficiently. World-class talent and software capabilities driving digital industrial transformation for big gains in productivity, availability and longevity. We do this by leveraging Predix, our industrial cloud platform purpose built for the demanding safety & security needs of industrials.