

Client Profile:

Industry: Metals & Mining Manufacturer
Location: USA
Facility Size: Manufacturer operating five production lines
Date: June 2024
Scope: Comp. Air System & Energy Saving Evaluation

**Customer scenario**

The facility operated five production lines powered by three isolated compressed air systems: HP 123, LP 123, and HP 45. While HP 123 and LP 123 can be cross-connected intermittently, HP 45 remains fully isolated. Aging infrastructure, unclear flow capacities, inconsistent control strategies, and limited instrumentation are raising concerns around system reliability, energy efficiency, and future expansion. To meet fluctuating production demands, operators frequently intervene manually, such as by introducing "air assist", to compensate for these limitations. The facility has a 1000HP on stand-by but seeks to **understand operational limitations, reliability concerns**, and potential **system-wide synergies or risks**.

**Our Mission**

- Diagnose the processes for inefficiencies and hidden energy losses
- Identify opportunities to reduce pressure, safely
- Improve system reliability and safety
- Deliver a clear path forward and establish internal ownership
- Evaluate the levels of risk and reliably when adding 1000 HP to the system

**Our Deliverables**

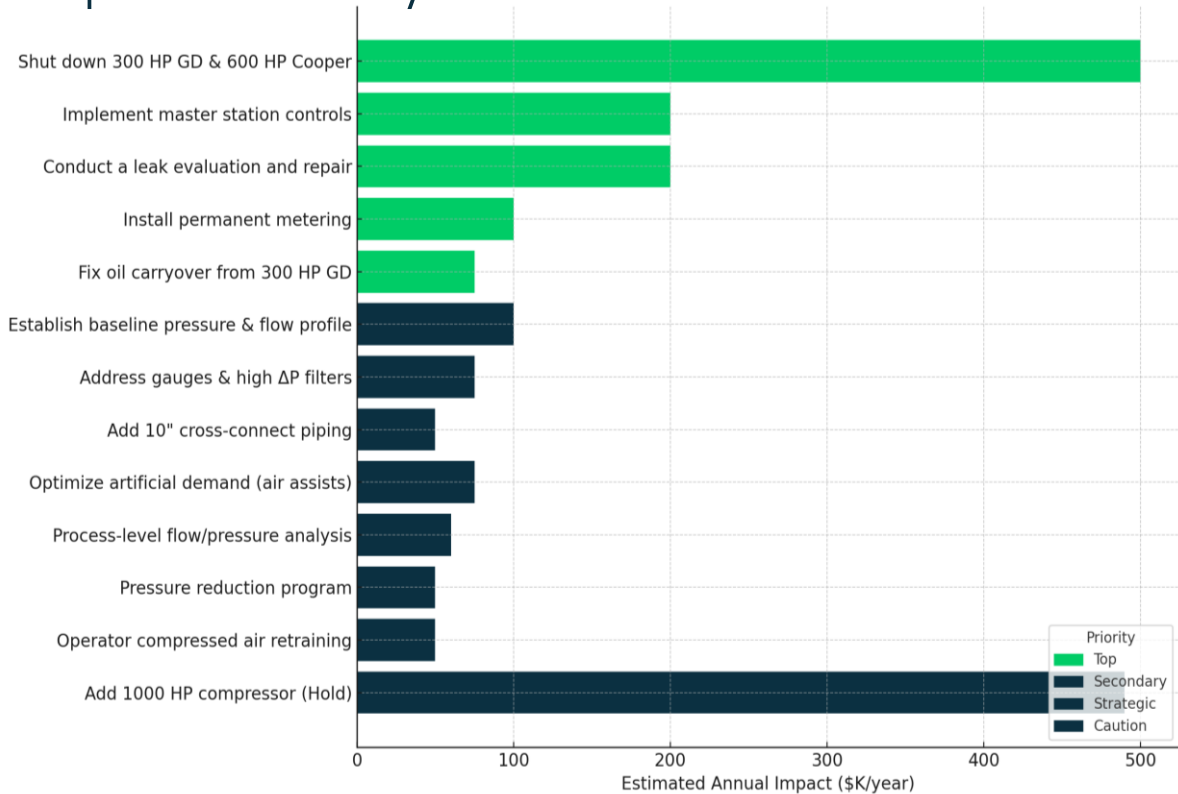
- Assessment of each air system's volume, pressure, air quality, reliability, and efficiency
- Review of control logic and artificial demand across isolated and combined system operations
- Evaluation of risks in current, connected, and upgraded (with 1000 HP) configurations
- Summary report outlining system gaps and prioritize actionable improvement opportunities

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Performance Report.

Actions

Top & secondary Priorities / ROI Actions



Potential Energy Savings near \$500,000



Project Results

This survey validated the facility's awareness of its system's reliability challenges and identified critical areas for control, metering, redesign, and operator retraining. The site team provided detailed input, and the collaborative environment helped uncover gaps that can be addressed with targeted and planned actions.



About Us

The Analysts is a reliability-first consulting firm specializing in **holistic compressed air system audits, energy savings evaluations, leak detection surveys, process mapping, and system monitoring and controls**. We understand every step in your compressed air system - from the atmosphere it draws in, to the atmosphere it returns to.



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