

CASE STUDY



COMPANY:
Non-ferrous metals
mining company



COUNTRY:
Australia



SECTOR:
Mining



ASSIGNMENT:
Identify energy efficiency risks
and opportunities in mining
and smelting assets



OFFERING:
Energy Efficiency & Management.



IMPACT:



→ + 50 low cost, high impact
opportunities pinpointed



→ Up to \$26 million of potential
annual savings identified



→ 6% reduction in greenhouse gas
emissions achieved in 12 months

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**DuPont
Sustainable
Solutions**



Energy efficiency improvements at non-ferrous metals producer

CHALLENGE

The operator of non-ferrous metals mining and smelting assets in Australia wanted to assess and report on potential energy efficiency projects in accordance with national requirements and better prioritize improvement opportunities through a consistent framework. At the same time, the organization had to address electricity supply issues at some of its facilities.

SOLUTION

DuPont Sustainable Solutions (DSS) benchmarked the company's processes against industry energy efficiency best practices and worked with the client's team to identify and analyze improvement opportunities, understand their viability and associated cost and economic benefits and prioritize energy efficiency opportunities. The diagnostic and benchmarking step consisted of several analyses including:

- A detailed analysis of loads, costs, and trends
- In-depth audits of process areas and power generation system
- Evaluation of operating and maintenance practices measured against industry best practices

The analyses identified low-cost high impact energy efficiency opportunities including enhanced electric arc furnace control, better burner and evaporator control, reduced gas flaring, improved steam turbine performance, optimized steam utilization, steam trap and tracing management, and introduced of a condensate return system.