



BEARING & POWER TRANSMISSION SOLUTIONS

# Case Study

## Energy Audit Service



### INDUSTRY

Quarry

### APPLICATION

Reliability & Energy Efficiency

### PROBLEM

A quarry located in Mt. Shamrock, Victoria were looking to improve reliability and energy efficiency.

### SOLUTION

BSC's Engineering Services Division conducted a site survey of AC electric motors to improve reliability and energy efficiency. Following the survey and analysis, BSC identified a number of areas throughout the quarry where change out to a high efficiency high specification motor range would provide significant benefits.

### BENEFIT

**Total Design Life Materials & Energy Saving >\$451,170**

- reduction in energy consumption of 223,778kwh per annum
- a reduction in CO2 emissions of 321 tonnes per annum
- a nett reduction in energy costs of \$31,329 per annum
- increased motor life of 335%.



Sustainability Solutions