

# Case Study

## Energy Audits



### INDUSTRY

Quarry

### PROBLEM

BSC's Energy Audit Team recently concluded a detailed audit of all AC motors at two quarry sites to provide a solution that would extend operating life and reduce energy consumption and CO2 emissions. The operating conditions at both are harsh with Site 1 a sand mining and processing site, and granite mining and processing at Site 2.



### APPLICATION

Site Processing

### SOLUTION

The BSC team conducted energy savings reviews and redesigns on-site in the areas of belt drives and high efficiency gearboxes.

### BENEFIT

Utilising the our Premium Efficiency motor range BSC was able to provide an attractive solution for both sites:  
Site 1: Energy saving \$19,485 pa, CO2 reduction 280 tonnes pa, payback eight months.  
Site 2: Energy saving \$19,369 pa, CO2 reduction 278 tonnes pa, payback nineteen months.  
Additionally, the 20 year design life on windings and H class insulation will reduce the motor change out volumes by up to 300% in both of these harsh environments.