



CAPABILITY STATEMENT

MINE COOLING AND REFRIGERATION

BBE Consulting is a specialised mine ventilation, mine cooling and refrigeration consultancy with over 25 years experience gained in the deepest and hottest mines in the world. Our team of multidisciplinary engineers support mine cooling projects from the initial heat load modelling through to installation and commissioning of refrigeration systems. Our capabilities include surface and underground refrigeration systems, bulk air coolers, spray chambers, heat rejection systems, chilled service water, spot cooling, glycol systems and ice systems. BBE mine refrigeration engineers are experienced with ammonia, fluorocarbon and absorption refrigeration technologies. We have been involved with mine cooling projects for major mining companies globally including Australia, Brazil, Canada, Ghana, South Africa, Tanzania and the United States amongst others. BBE provide expert independent consulting services and assist mining companies with design and technical management of mine cooling projects.

BBE's consulting services encompass conceptual, feasibility and detail engineering and include, but is not limited, the following:

- System specification for hiring mine refrigeration equipment
- System specification for purchasing mine refrigeration equipment
- Heat load analysis and thermodynamic network modelling.
- Heat stress management strategies
- Conceptual design and cost estimates.
- Cooling system trade-off studies.
- Refrigeration equipment sizing and selection.
- Preparing scope of works and equipment specifications.
- Preparing preliminary and detailed engineering drawings.
- Adjudication of tenders.
- Technical input during constructing and project management support.
- Surveys, audits, trouble shooting and performance assessment.
- Commissioning
- EPCM project execution

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