



Ventilation and heat modeling



Ventilation engineering



Refrigeration engineering

CAPABILITY STATEMENT

BBE Consulting (Australasia) 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. BBE operates world-wide in all types of mines and different mining methods. The BBE team is fully up-to-date on latest technologies and often co-develop novel optimum solutions with clients. Over many years BBE engineers have contributed significantly to developing state-of-art technology, the evaluation and implementation of novel cooling systems (recirculation, ice and hydropower) and the introduction of novel mining methods. BBE have developed (and own patented IP) on the application of thermal ice-store techniques in mine cooling and energy management systems.

BBE's consulting services encompass conceptual, pre-feasibility and feasibility life-of-mine ventilation system design including optimisation, infrastructure requirements, capital cost estimates, power profiles, operating cost estimates and scheduling:

- Analysis, design and optimisation of ventilation systems
- Heat load analysis and cooling system design.
- Heat stress management strategies
- Rock thermal property measurement
- Access to unique global geothermal data base.
- Detailed engineering specifications for ventilation, cooling, refrigeration and energy recovery equipment.
- Surveys, audits and diagnostic work with ventilation and cooling networks and systems
- Ventilation system risk assessment
- Underground radiation control, management and modelling.
- Diesel emission management
- Dust control and management
- Energy management and system optimisation
- Management of toxic and explosive gases

BBE

Software

BBE make extensive use of commercially available software packages including VUMA-3D; Ventsim Visual, VNetPC and other specialised computational fluid dynamics [CFD] tools.

Contact us

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