



Simulation
& Modelling



Mine
Ventilation



Mine Cooling
& Heating

ENGINEERING DESIGN

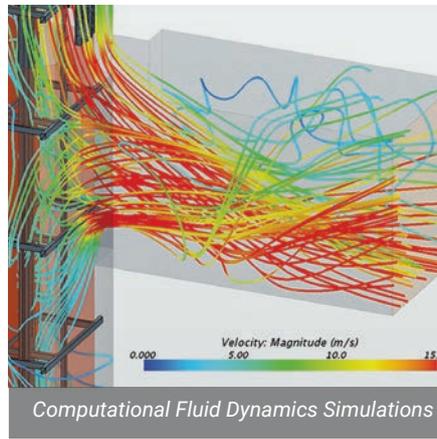
BBE Consulting's expertise include conceptual to operational engineering services for mine ventilation infrastructure and associated systems.

Our engineering services include **Primary and Secondary fans, ventilation ducting, air cooling and heating systems, refrigeration plant, Ventilation on Demand system, Local Extraction Ventilation, Air Filtration, scrubbing systems and ventilation control devices** and various other facets of the underground mining process.

- Multi-disciplinary engineering
- Engineering trade-off studies
- Equipment sizing and selection
- Preparing preliminary and detailed engineering drawings
- Preparing scope of works
- Technical specifications
- Functional descriptions
- Technical evaluation and adjudication of tenders
- Technical support during execution phase (Reviews, SAT/FAT, QA/QC,)
- Trouble shooting and performance assessment
- Commissioning
- Design Optimisation
- CAPEX and OPEX estimating
- Scheduling
- Safety in Design and Risk Management
- Benchmarking



Surface fan station



Computational Fluid Dynamics Simulations



Refrigeration plant cut-away

BBE is an independent engineering consultancy with over 25 years experience, with global expertise in challenging mines and environments.

BBE Group is a global organisation, with experience in a vast range of mining methods across all types of commodities. The Group has offices in Australia, Canada and South Africa, servicing mines across all three continents.

Utilising the latest technology, our independent expert engineering consultants provide clients with support throughout all phases of the mining project. From initial concepts, evaluation, implementation, through to the operation of bespoke ventilation, cooling/heating systems.

Our multi-disciplinary consultants provide site support in mine ventilation and cooling/heating projects for complete ventilation systems.

Our experience includes multiple fan technologies and engineering design for both surface and underground primary fans stations, bulk air cooling and refrigeration systems as well as ventilation on demand solutions.

BBE Group specialises in designs, studies, project support, site support, reviews and all other technical matters related to underground working environments.



● BBE PROJECTS
● BBE OFFICES

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BBE
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