

THIESS means engineering



Thiess offers a range of mine planning services for all stages of a mine's life cycle. We draw on a full complement of disciplines from across our business to deliver all facets of mine planning, leveraging our global experience and executing at a local level.



Our deep operational experience allows us to partner with clients by embedding technical expertise into their teams for long periods, integrating our knowledge, systems and processes.

Technical studies

Our extensive knowledge and in-field experience across a range of commodities and mining methodologies enable us to deliver tailored, flexible technical studies. Our study services range from high-level, early-stage scoping assignments on greenfield projects and detailed technical studies geared for immediate implementation on operational projects, to peer review of client and consultant developed studies.

Design

Our practical, life-of-mine expertise provides the strongest foundation for operations because we design based on direct experience across the full mining lifecycle. Through mine optimization and optioneering, we further challenge every aspect of a design to ensure short and long-term goals are based on sound, fit-for-purpose economics. Our multidisciplinary specialist skills and experience provide clients with safe, certain and efficient operations.



Let's talk more about engineering.
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with Thiess at MINExpo.

fact sheet

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Planning

Thiess' life-of-mine planning provides the foundation and economic direction to support robust short-term delivery and long-term value. We work closely with our clients to optimize production outcomes, balancing mine life, resource recovery and unit cost targets, with our clients' priorities, schedules and market demands. Proven systems give supervisors real-time access to information to make informed, agile decisions and effectively manage change on site, with remote technical support from our in-house team of multi-disciplinary experts.

Estimation

Our robust estimating capability delivers fully costed mine plans that give clients economic certainty. Our dedicated estimators are part of a multi-disciplinary mine planning team that tests thinking to refine strategies and identify the best options. Detailed costs are analyzed and benchmarked against our extensive knowledge bank of diverse operations, further reducing unknowns and contingencies to create a total mine planning package.

Case study

PIONEERING THROUGH-SEAM BLASTING AT MOUNT OWEN

Thiess' advanced terrace mining and through-seam blasting at Mt Owen Mine in Australia successfully overcame the deposit's complexities – delivering efficient excavation, higher resource recovery and reduced costs.

The deposit comprised multiple, often steeply-dipping, coal seams mined in thicknesses between 0.3 - 11m.

Thiess worked with specialist suppliers on an electronic initiation system that enabled larger blasts with more seam intercepts, and longer delays between smaller seam interburdens, to reduce thin coal seam loss. This, combined with high precision drill guidance and strata recognition, the team achieved lower coal disruption blasts to improve coal flow scheduling and resource recovery. Without through-seam blasting, working on the steeply-dipping strata would have made mining at Mt Owen uneconomical and significantly shortened the mine life.



About Thiess

Thiess delivers sustainable solutions in open cut and underground mining in Australia, Indonesia, Mongolia and North and South America. Established in 1934, Thiess operates across diverse commodities, geologies, environments and cultures.

Thiess' success over the past 90 years is built on our commitment to listen and understand the business needs of clients so we can safely deliver value and certainty.

We partner with our clients to develop effective and sustainable solutions, leading ESG practices and strong community engagement. Our pioneering spirit drives superior performance in the face of any challenge, from autonomous mining and climate change to deep mining and reclamation.

Across our operations, safety underpins everything we do. We're committed to keeping everyone safe everyday by providing a workplace that's both physically and psychologically safe.



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