

ACTIVE PROJECTS HAPPENING

SKEmet ensures that your process engineering requirements are not only met but also your expectations are exceeded. We understand and embody the rapid metallurgical technological developments to assist you in maintaining or improving your production at lower energy levels, thus reducing plant costs and environmental impact.

Collaboration with our Client is of utmost importance to us. Our Clients have realized that we leverage on our ability to identify their requirements, engage with them and perform strategic planning to deliver on their requirements.

We retain a keen appreciation and understanding of the identification, development and management of both technical and business opportunities. Our Clients who have experienced and shared in our passion include:



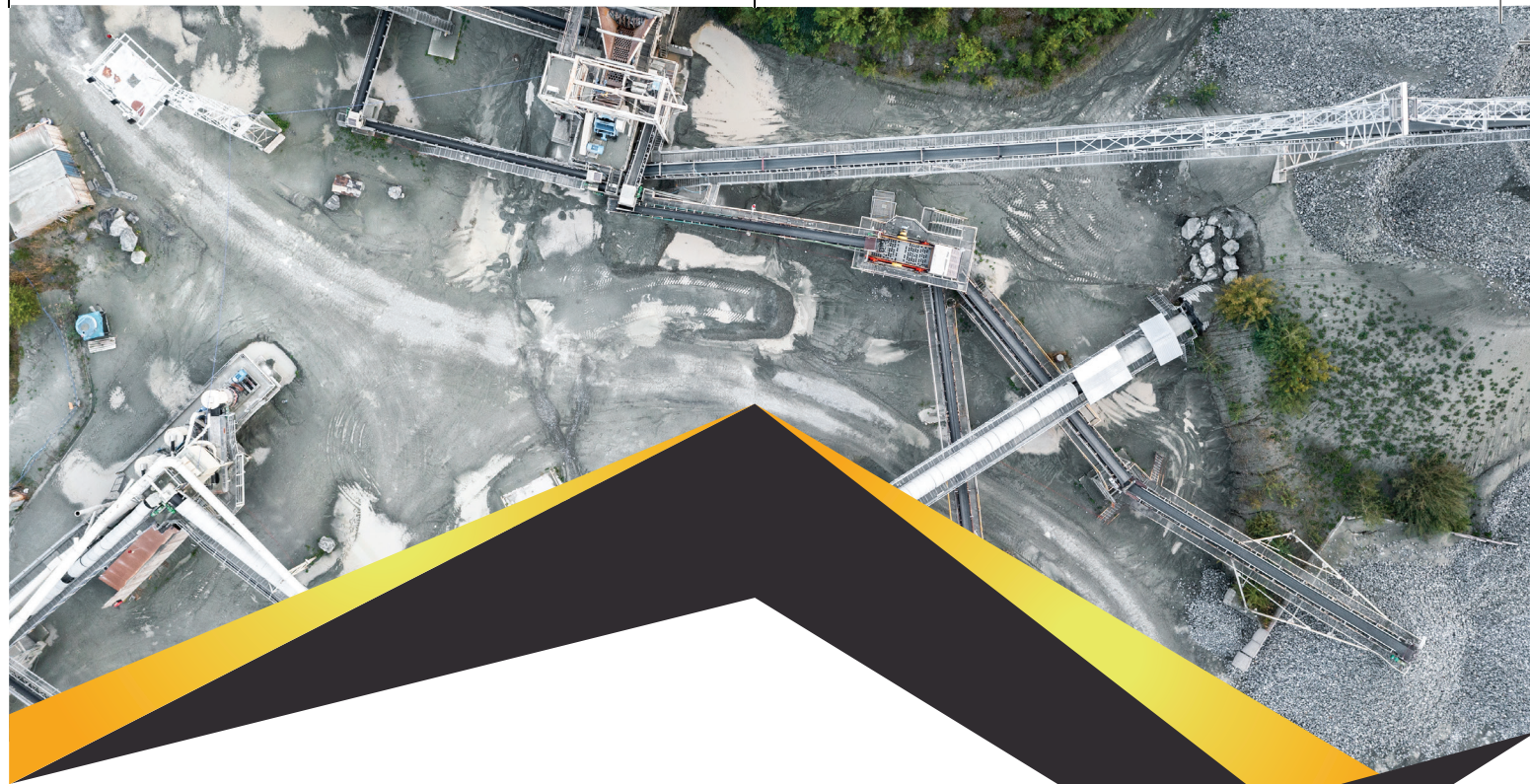
TOMRA South Africa | Platinum, Gold Sorting

- Process Engineering Consultation
- Financial Analysis and Review
- Testwork/Pilot Plant Result Analysis



Ambatovy Madagascar | Cobalt Precipitation

- High-level CAPEX estimate
- Process Flowsheet Development



CONTACT US

How can we assist you with your process engineering requirements? You are welcome to contact us via email, phone

- +27 (0) 82 466 1067
- +27 (0) 82 462 1055
- www.skemet.com
- info@skemet.com
- Unit 86 Alanglades, Pilgrims Avenue, Lonehill East, Gauten g, RSA, 2191



PROCESS ENGINEERING CONSULTANCY FIRM

We specialize in mass and energy balance solutions for mineral processing plants.





ABOUT US

SKEmet was founded in May 2022. We are a process engineering consultancy firm, specializing in mass and energy balances for mineral processing plants. We are based in South Africa and have considerable experience in plant design and the delivery of projects, from study phase to final process plant handover. The team comes prepared with global insight, having worked with Clients in South Africa, Eritrea, Ethiopia, Mali, Burkina Faso, Dominican Republic, Saudi Arabia, Democratic Republic of Congo and Mozambique.

The mass and energy balance are the heart and soul; and what gives life to metallurgical processes. Plant design, capital costs, and technical evaluations are all dependent on the mass and energy balance. SKEmet strongly believes that a well-simulated process must be the first step in assisting our Client with the delivery of a reliable and sustainable asset.

WHAT WE OFFER

We like to focus on providing you with a basis for your metallurgical process; the mass and energy balance. A process plant design with mechanical equipment sizing and process controls, the capital and operating cost estimate and technical reviews can then be included as a full process engineering solution.



Plant Design and Control

Whether you have a new facility or an expansion or modification of an existing facility, our process design and control offerings boast the following:

- Process Development
- Design Criteria
- Process Flow and Control Drawings
- Control Philosophy and Functional Specifications
- Mechanical Equipment Selection and Sizing

We have a good understanding of what is required to increase longevity of the process plant as well as what is required to maintain a productive operation. We can generate capital and operating cost estimates, including Life Of Mine costs, to provide operational and asset decision support. We would like to provide you with the opportunity to select asset solutions that talk to your short and long-term financial expectations, cash flows and leverage limitations.



Simulations

Process simulation is a fundamental tool in development and operation of mineral processing plants. The capability to model the behaviour of different ore types through a variety of process configurations provides extensive flexibility to process design and confidence to operational modifications.

We can develop the following:

- A steady state mass and energy balance to investigate the process plant behaviour in its balanced and stable state
- A dynamic simulation for time-varying operations which account for changing input variables and allow for predictive control.



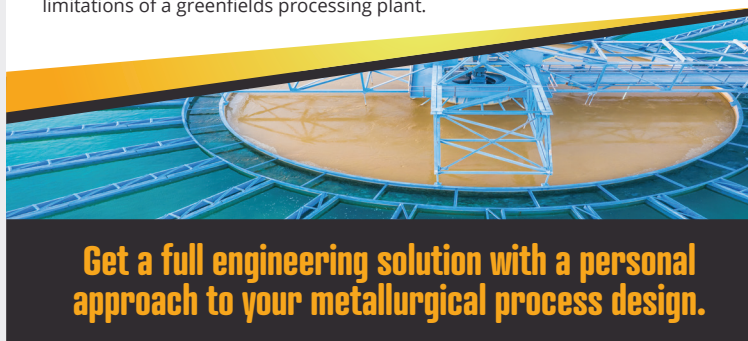
PREMIER PROCESS MODELLING SOFTWARE

Schedule and Costs

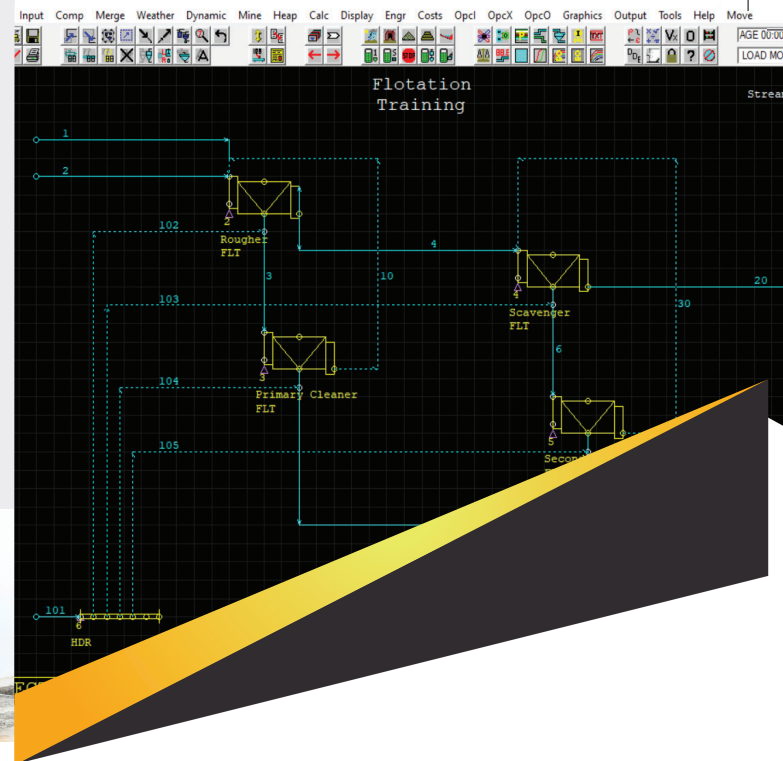
We have seen the benefits of utilizing premier process modelling software. It not only generates steady state metallurgical mass and energy balances, but also :

- Generates equipment and instrumentation lists with detailed sizing
- Produces an estimate for mining costs and plant operating costs
- Parameterization to simulate existing plants
- Dynamic simulation for time-varying parameters, as for heap leach process plants

With these tools and capabilities at hand, we can provide you with a metallurgical and process solution in good time and at reasonable costs to you without having to build a pilot plant to test modifications or realise the limitations of a greenfields processing plant.



Get a full engineering solution with a personal approach to your metallurgical process design.

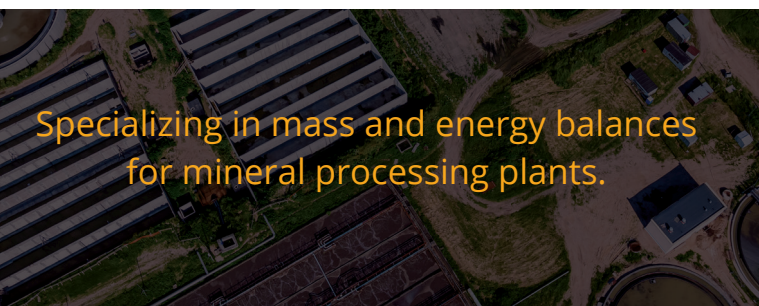


HOW WE CAN HELP YOU

We bring balance to your metallurgical process by providing steady-state mass and energy balance solutions or dynamic and time-varying simulations to the mining and minerals industry.

Allow us to simulate your metallurgical process flow ideas using well-known mineral process modelling software and create a digital twin of your processing plant that can provide valuable financial and operational insight. We shall provide you with the correct platform from which you can make proactive design and operational decisions.

We shall deliver a complete solution to the way in which your process plant responds to steady state or upset conditions, by utilizing mineral processing simulation software that best fits your requirements.



Specializing in mass and energy balances for mineral processing plants.