

ENGINEERING AND COMMERCIAL SOLUTIONS

De-risking technology. Unlocking value.

Koch Technology Solutions (KTS) partners with owners, developers, and investors in the process manufacturing and critical minerals sectors to solve complex technical and investment challenges before large capital is committed.

Where projects involve novel chemistry, scale-up risk, market uncertainty, or first-of-a-kind processes, KTS helps clients make confident, defensible decisions — from early concept through EPC-ready design.

KTS is not an EPC contractor and does not pursue lump-sum execution work. Our value lies upstream of EPC, where the most consequential decisions are made.

Clients engage KTS to:

- ▶ De-risk technology and chemistry choices
- ▶ Avoid capital being committed to the wrong process or design
- ▶ Preserve flexibility and negotiating leverage with EPC contractors
- ▶ Build a defensible technical basis for investment, financing, and approvals
- ▶ Support EPCs in delivering projects after decisions are made

KTS exists to ensure those decisions are the right ones.

Application Areas



Recycling Technologies



Plastics & Polymers



Critical Minerals



Chemical Process Technology



Pyrolysis & Gasification



Oil & Gas



Petrochemical

Engineering Services

- ▶ Process technology development, including scaleup, new unit operations, and abatement solutions
- ▶ Independent process technology assessment and selection to identify the most effective pathways for your project
- ▶ Comprehensive process design package development through Front End Engineering Design (FEED) to support engineering, permitting, and investment decisions
- ▶ Process optimization, debottlenecking, and energy integration studies that unlock efficiency and reduce operating costs
- ▶ Fully equipped laboratory, piloting, catalyst evaluation, and corrosion testing services to validate concepts and accelerate deployment
- ▶ Delivery of custom designed pilot units tailored to your specific process requirements
- ▶ Deep subject matter expertise in material handling, rotating equipment, static equipment, instrumentation, and control systems
- ▶ Process safety studies and risk assessments to ensure safe, reliable, and compliant operations

Commercial Advisory Services

- ▶ Investment grade commercial due diligence
- ▶ Independent technology evaluation and selection
- ▶ Supply-demand analysis, market sizing, and value chain assessment to quantify opportunity and competitive positioning
- ▶ Market segmentation, customer prioritisation, and route to market analysis
- ▶ Financial modelling, scenario analysis, and risk assessment to underpin investment decisions
- ▶ Commercial strategy and go to market support for new technologies-, from early market entry through scale-up and commercialization
- ▶ Marketing and business development support

Case Study

From Flowsheet Optimisation to Value Realisation (Lithium)

- ▶ Redesigned process flowsheet to improve scalability and economics
- ▶ Delivered paid pilot testing with prospective customers
- ▶ De-risked FOAK scale-up and enabled market deployment
- ▶ Result: technology sold at multiple times the total development spend



Contact our team today to learn more.