



# Lithium Refining Systems

Intelligent, Modular, Complete Solutions



[WWW.SALTWORKSTECH.COM](http://WWW.SALTWORKSTECH.COM)

## SALTWORKS SOLUTIONS

Saltworks delivers proven technologies and expert engineering to support your lithium project from pilot to production.

Whether you need a full turnkey system, select unit operations, or digital and engineering support, our modular solutions are engineered for performance, cost-efficiency, and flexibility.

### OFFERINGS

#### TURNKEY SYSTEMS

- › Brine-to-battery chemical complete systems
- › Full package inclusive of all unit operations, interconnections, & advanced process control
- › DLE agnostic & open source approaches

#### SINGULAR UNIT OPERATIONS

- › Robust, modular, factory-commissioned skids
- › Built-in intelligent controls
- › Integrate with your process plans & plants

#### INTELLIGENT ADVANCED AUTOMATION

- › HydraOS for plant control & intelligent self-optimization
- › RoboSense for real-time lithium process data
- › Operate, train, & optimize a digital twin virtual plant
- › Predictive AI, secure data management & reporting

#### PILOT TESTING & ENGINEERING SERVICES

- › Extensive fleet of on- & off-site pilots
- › Early contractor involvement (ECI)
- › Front-end engineering design (FEED)
- › Collaborate & accelerate with EPCs

### ADVANTAGES

- › Off-site constructed modular plants offering lowest total installed cost: Lang Factor 1.2-1.5
- › Performance optimized: Improve efficiency by 20%
- › Smart automation, digital twins, & remote support

- › Select à la carte high-performing unit operations
- › Engineer into your process flow sheet
- › Achieve lower total installed cost
- › Self-diagnose & self-maintain for higher uptime

- › Real-time optimization
- › Boost recovery & uptime
- › Reduce labor & guess work
- › Data driven insights & reporting

- › Pilot plants with full-scale process control
- › Produce battery chemicals
- › Detailed process flows & mass balances
- › Advance ECI and FEED with a proven partner

Saltworks delivers modular, intelligent, and built-for-performance lithium solutions.

Contact our expert engineers today.

Let's Talk  
Lithium

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## Our off-site constructed and factory-commissioned lithium plants are cost-effective, high-performing, modular, and scalable.

Customers benefit from lower total installed costs, de-risked delivery models, and proven, repeatable designs trusted by the mining, semiconductor, and automotive industries.

With deep expertise in industrial water treatment and critical mineral recovery, Saltworks supports the full lithium lifecycle—from extraction to battery chemical production, CAM and battery manufacturing and recycling.

Whether you're seeking complete refining systems, intelligent unit operations, engineering and pilot services, or a digital twin platform to optimize performance, we're ready to support.

## Turnkey Plants or Unit Operations

Saltworks' technologies plug into every major step of the lithium refining process—from raw brine to battery-grade lithium carbonate. Our modular, scalable systems are engineered to maximize lithium recovery, minimize installed cost, employ advanced automation and enhanced apparatus.

Below is a simplified flow sheet with representative technologies at each stage. Whether you need a full system or just a few key unit operations, Saltworks delivers leading process solutions for lithium refining.

