

Sustainable Mining

Reuse Water, Reclaim Value.

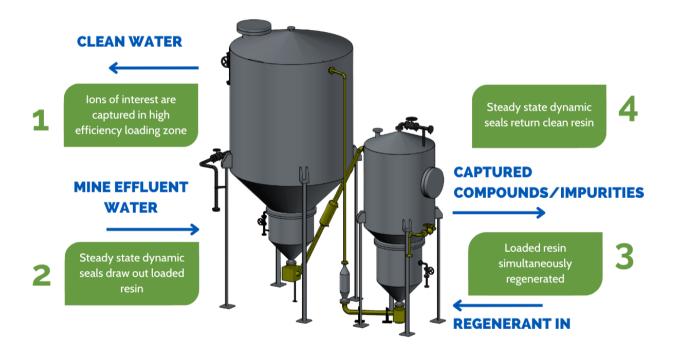
Mining Water Treatment

We understand that managing water efficiently can be a critical concern for mining operations. Complex separation processes demand sustainable solutions to reduce reliance on fresh water and transform waterrelated challenges into valuable opportunities.



Improve water efficiency and enhance water reuse and environmental sustainability

At Renix, we support mining companies implementing water management strategies by enabling fit-for-use water recycling and stable control of compounds such as sulfate, hardness and metals.



Convert Conventional Treatment to

Renix's Controlled Separation

Efficient and stable water management is key to unlocking the full potential of your mining operations. Unlike traditional batch-based processes, our RenixUIX™ Steady-State Ion Exchange platform provides steady state resin regeneration, a wider operating window, and active process tuning to match treatment needs. The platform uses a proprietary design to circulate resin through uninterrupted regeneration, providing more efficient, cost-effective, sustainable separations.

Mining Water **Applications**

- Fit-for-use Water Recycling
- Sulfate or hardness removal
- Replacement of conventional liming processes
- Metals recovery for value recovery or discharge compliance

RenixUIX[™] Platform

Water Recirculation

With the advanced RenixUIX[™] Steady-State platform, you can achieve:

- o Controlled sulfate and hardness removal for stable water quality.
- o Reliable fit-for-use water recirculation with minimal fouling and scaling risks.
- Reduced freshwater intake and water discharge.
- Robust, controlled chemistry for pH control and dependable process performance.
- o Optimized metal recovery and co-product generation.



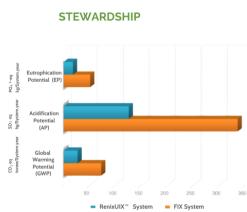
The old made new

FIX vs UIX

Conventional fixed bed systems work very well for simple water chemistries and low-solids streams. Mining waters are generally complex and high concentration where fixed bed, batch operating ion exchange systems cannot perform.

In a 3rd-party side-by-side comparison with an existing 3-column Fixed-Bed Ion Exchange system, the RenixUIX™ steady-state platform provided significant financial and operating advantages:





- o > 50% total OPEX Savings
- o > 35-50% resin & chemicals Savings
- o Smaller physical footprint
- o 80% higher water recovery
- Up to 10X higher target ion load
- Less operator intervention & maintenance

About Renix

Our goal is to generate sustainable solutions that enable industry and community to thrive together.

We are leaders in advanced ion exchange, a widely-used liquid separation & purification technology. RenixUIX™ transforms traditional batch-based operation into a steady-state platform that tackles complex separations, enabling mining companies to maximize fit-for-use water recycling, reduce water treatment sludge generation, and stabilize water quality control.

Transforming Our Resources, Transforming Our World.

Our recovery solutions enable the reuse of acids, bases and other inputs, while our clean water solutions have multiple applications, such as dissolved mineral recovery, industrial softening or nutrient capture. We also provide ingredient processing solutions that enhance value extraction through purification and co-product development.



Industries



Fuel & Power



Mining, Minerals &



Ingredients, Biofuels & **Biochemicals**



Water

Through our proprietary application development, we configure and size our platform technology to help our customers transform their processes while reducing their operating costs and footprint.

