

## CONSERVING RESOURCES WITH OPTIMIZED WASHING PROCESS IN FREEPORT

*This sustainability story is one of many that shows how Olin products, technologies, ideas, and people are having a positive impact on our world.*

### SUSTAINABILITY CHALLENGE

- At its Freeport plant, Olin uses diaphragm cells for electrolysis to separate caustic, chlorine, and hydrogen.
- The diaphragm cells must be cleaned regularly to remove hardness and impurities.
- This cleaning process was carried out continuously, requiring river water and CO<sub>2</sub>.

### POSITIVE IMPACT

- Due to the more efficient cleaning of the diaphragm cells, significantly less river water and CO<sub>2</sub> is required for the process.
- This saves up to 13 million gallons of water and 50 tons of CO<sub>2</sub> per year, protecting the environment and conserving resources.

### OLIN'S SOLUTION

- As result of a continuous improvement process, a project was initiated to optimize the cleaning of the diaphragm cells.
- A soak-wash process was introduced, in which the cells are cleaned in a batch process rather than continuously.
- This cleaning only needs to be done when the caustic strength gets lower.



**DID YOU KNOW?**

Olin is North America's largest producer of electrolytic hydrogen and is continuously increasing its green hydrogen percentage.