

OPTIMIZED VENT TREATMENT REDUCES VOC EMISSIONS IN KOREA

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

- Olin strives for changes that benefit the environment in accordance with local regulations, such as the recently revised Korean Clean Air Conservation Act.
- These revised regulations call for further reduction of emissions, especially volatile organic compounds (VOCs) and hazardous air pollutants (HAPs) to minimize the impact on the environment.
- At Olin's production site in Gumi, the team closely reviewed their production processes to identify and implement the most effective solution to reduce VOC emissions.

OLIN'S SOLUTION

- The first part of the solution was installing a multi-stage scrubber and condensing system to eliminate HAPs in the process vent.
- The team also installed a new Regenerative Thermal Oxidation (RTO) system to remove VOCs and HAPs from exhaust gases.
- RTO is a game-changing system for exhaust air and gas purification that eliminates VOCs, HAPs, and other airborne pollutants by oxidation at high temperatures while recovering heat from the exhaust stream to minimize energy consumption.

POSITIVE IMPACT

- The new optimized vent and RTO systems are now safely reducing VOC emissions from the inlet gas by about 99%.
- In addition, the new systems are helping to reduce the generation of wastewater at the Gumi site.
- Olin continues to fully comply with the revised Korean Clean Air Conservation Act, helping to protect the community and the planet.



DID YOU KNOW?

Olin's production facilities worldwide meet or exceed local regulations and requirements by constantly applying innovative solutions to reduce emissions and save resources for a more sustainable world.