

ICAC MEMBER SPOTLIGHT

Highlighting ICAC member technologies, markets, and mission



Umicore

ICAC is comprised of member companies from every corner of the air pollution control industry. Our Member Spotlight series features various ICAC members and their technologies. In this issue, we are turning the spotlight on **Umicore**, a global leader in circular materials technology.

WHO THEY ARE

Established in 1805, Umicore started as a group of numerous mining and smelting companies that gradually evolved into the recycling and materials technology company it is today. Umicore advances clean technologies, including the development of catalysts used in stationary energy and manufacturing sources, the automotive industry, next-generation rechargeable battery materials, fuel cell catalysts, and membranes. Umicore expanded its footprint in the U.S. in 2017 following its acquisition of the stationary emission control catalysts division from Haldor Topsoe.

WHAT THEY DO

Umicore is a leading circular materials technology company with extensive expertise in the fields of material science, chemistry, and metallurgy. In 2021, Umicore announced its ambitious goal to achieve net-zero GHG emissions by 2035 by incorporating ESG practices throughout its business.

Umicore offers cutting-edge scientific innovations across sectors and provides services from catalyst screening and process development support to research and development. Some of the industries Umicore serve and their technology include:

- **Energy:** Stationary catalysts for power emissions; rechargeable battery materials; germanium for PVs; high conductivity materials
- **Automotive:** Emission control catalysts, recycling batteries, metal catalysts
- **Recycling:** Stationary emissions control catalyst for waste incineration/recycling; recovery of special metal residues and by-products; recycling end-of-life batteries, electronics, and germanium.
- **Chemicals and Manufacturing:** Recycling industrial catalysts; stationary emissions control catalysts for chemical plants; nickel production; platinum/palladium gauzes; and other special metals/chemicals.

FAST FACTS

- Over **200 years** of history
- **Operations in 13+ countries**
- U.S. Office: Houston, TX
- Specializes in **circular materials technologies**

ICAC's Umicore Participation



International Markets



Domestic Conventional Pollutants Division



Focused Air Services

Umicore develops reliable and high-quality solutions for treating criteria air pollutants. Umicore's stationary catalysts are widely used by the chemical industry, refineries, steel, glass, and cement manufacturing because their technology allows for longer service life and reduced ammonia consumption – which improves air quality and lowers maintenance costs.

- Umicore's **Dual-Function Catalyst** treats NOx along with CO/VOCs in a single catalyst bed and has gained wide market acceptance.
- Umicore's **Ultra-low Emission System** can achieve previously unattainable emission targets of up to 99% efficiency.
- Umicore's products can also support the successful operation of new carbon capture systems, by reducing impurities such as NOx to very low levels. This would otherwise cause corrosion concerns for CO2 pipelines

A Year of Success and Looking Forward: Leading ESG Initiatives

In 2021 and 2022, Umicore positioned itself as a pioneer in circular materials technology and integration of ESG into its operations.

- In 2021, Umicore unveiled its ambitious ESG strategy, "Let's go for Zero," committing to net zero GHG emissions by 2035.
- In 2022, Umicore launched its acceleration strategy, "Umicore 2030-RISE," to become a Reliable transformation partner, an Innovation and technology leader, and a Sustainability champion, to ultimately Excel in execution.

In addition to supplying environmental and recycling services, Umicore is also deeply committed to minimizing its own environmental impact and actively participates in the management and remediation of risks that are the result of historical operations.

THE FUTURE

...Umicore is also deeply committed to minimizing its own environmental impact and **actively participates in the management and remediation of risks** that are the result of historical operations.

Stay tuned for updates on [their website](#).

Connect with Umicore

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