

## MECS ENABLES HIGH PURITY E-GRADE ACID PRODUCTION IN 90% OF FACILITIES IN KEY PRODUCTION COUNTRIES

**Global leader MECS selected for two new projects in the United States and Taiwan, further solidifying foothold in the marketplace**

**ST. LOUIS, USA, February 23, 2023** – MECS, Inc. (MECS), a subsidiary of Elessent Clean Technologies (Elessent), is the licensor of choice for the production of high purity sulfur trioxide and oleum that is required for high purity e-grade acid production used in the rapidly growing semiconductor industry. Ninety percent (90%) of e-grade acid plants in the key production countries of Taiwan, Korea, United States, and Japan have selected MECS® technology and equipment to ensure the most reliable production of these critical e-grade acid feedstocks. Further solidifying the company's foothold in the marketplace and deepening the experience gap among competitors, MECS was recently selected to supply propriety technology and equipment to clients in the U.S. and Taiwan to enable production of high-purity e-grade acid for the global market.

E-grade acid is an ultra-pure form of sulfuric acid that is used as a cleaning agent in semiconductor fabrication. Semiconductors are essential components of electronic devices, enabling advances in communications, computing, healthcare, military systems, transportation, clean energy, and countless other applications. Everything from smart phones to electric vehicles and beyond requires semiconductor chips, and growth is anticipated to soar from today's \$600 billion industry to more than \$1 trillion by 2030.

“The semiconductor industry is experiencing growth we have not seen in decades. Because of our robust history in the sulfuric acid industry, using MECS® technologies and equipment to produce high purity e-grade acid feedstocks provides assurances our competitors cannot replicate. We are at a critical point in high purity sulfuric acid production. With high demand around the globe, and the passage of the CHIPS Act in the United States, we are excited to help meet the needs of the expanding global marketplace and to assist the U.S. in being more competitive within that space.” said Eli Ben-Shoshan, CEO, Elessent.

Governments from several countries around the world have implemented incentive programs for e-grade acid production. Tax credits, grants, and research and development investment are some of the ways in which e-grade acid manufacturers are being rewarded for contributing to the supply chain. With established offices spanning the globe, Elessent can assist clients worldwide with the implementation of MECS® technologies and equipment needed to enable e-grade acid production.



The MECS<sup>®</sup> sulfuric acid technology has been in use for nearly a century in the phosphate fertilizer, non-ferrous metals (leaching & smelting), oil refining and general chemical industries. MECS<sup>®</sup> technologies feature breakthrough solutions, many of which have revolutionized the performance, quality and cost-effectiveness of customer operations. They include MECS<sup>®</sup> heat recovery systems (HRS<sup>™</sup>), MECS<sup>®</sup> SolvR<sup>®</sup> regenerative SO<sub>2</sub> scrubbing and MECS<sup>®</sup> MAX3<sup>™</sup> sulfuric acid production technology. Integrated into these MECS<sup>®</sup> technologies are proven specialty products such as catalysts, Brink<sup>®</sup> mist eliminators, DynaWave<sup>®</sup> scrubbers, ZeCor<sup>®</sup> corrosion resistant alloy products, and acid coolers all of which are specifically designed for the most demanding operating environments. Licensed and marketed by Elessent Clean Technologies, the MECS<sup>®</sup> technology is the world-leading sulfuric acid production technology with more than 400 licensed acid plants worldwide since the 1960's. Elessent Technologies is committed to long-term customer satisfaction and support for the life of customer asset.



### About Elessent Clean Technologies

Elessent Clean Technologies is a global leader in process technologies to drive sustainability and carbon neutrality in the metal, fertilizer, chemical and oil refining industries with an unwavering commitment to customer support. We provide extensive global expertise across our portfolio of offerings in key applications – MECS® sulfuric acid production, STRATCO® alkylation, BELCO® wet scrubbing and IsoTherming® hydroprocessing. Offering critical process equipment, products, technology and services, we enable an array of industrial markets, including phosphate fertilizer, non-ferrous metals, oil refining, petrochemicals and chemicals, to minimize their environmental impact and optimize productivity. We are dedicated to helping our customers produce high-quality products used in everyday life in the safest, most environmentally-sound way possible, with a vision to make the world a better place by creating clean alternatives to traditional industrial processes. Learn more at [www.ElessentCT.com](http://www.ElessentCT.com).

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