

# N<sub>2</sub>O ABATEMENT

## Built on Over 25 Years of Experience

Nitrous oxide (N<sub>2</sub>O) abatement technology reduces greenhouse gas emissions from industrial processes such as nitric acid, adipic acid, and caprolactam production. By eliminating N<sub>2</sub>O before release to atmosphere it transforms emissions helping industries meet environmental regulations and lower their carbon dioxide equivalent (CO<sub>2</sub>e) emissions. This technology supports reduced emissions enabling cleaner, more sustainable production and strengthening corporate environmental responsibility.

### N<sub>2</sub>O Emissions

N<sub>2</sub>O exists in smaller concentrations compared to carbon dioxide and methane, however it has a long atmospheric lifetime (~114 years) and a carbon dioxide equivalence of nearly 300.

### Our Solution

KTS technology installed worldwide has the capacity to abate over 75 million tonnes CO<sub>2</sub>e, driven by demonstrated N<sub>2</sub>O abatement greater than 99%.



## Koch N<sub>2</sub>O Abatement History

**1990'S**

N<sub>2</sub>O abatement technology installed and operated at INVISTA facilities



**2004**

INVISTA acquired by Koch Industries. Formation of INVISTA Process Technologies (IPT).



**2021**

IPT Moves to Koch Engineered Solutions



Over 25 years of N<sub>2</sub>O abatement experience through our own operations & licensing

**1998**

DuPont acquires ICI's polyester business. Integrates licensing activities to Dupont Technology Transfer Group.



**2008**

First N<sub>2</sub>O Abatement license executed

**2021**

Formation of Koch Technology Solutions (KTS)



**2023**

Three further N<sub>2</sub>O Abatement licenses executed

**2025**

KTS & INVISTA form strategic partnership to advance licensing



## KTS N<sub>2</sub>O Abatement Offering

**A scalable, field-proven, tertiary abatement solution for the global market.**



A non-exclusive license to use our IP for a specific project and a Process Design Package



Technology Transfer Services (detailed engineering support, critical equipment procurement support, training, construction inspections, pre-commissioning and commissioning support through to plant acceptance)



Supply of specialist equipment and services (including LSTK execution) as part of KES



Post Acceptance Support (on-going optimisation, trouble shooting, inspection services during overhauls, safety and operations refresher training, etc.)



Supply of proprietary N<sub>2</sub>O Abatement catalyst and access to carbon credit markets via Koch network

## Key Benefits

- ▶ Over 75 million tons CO<sub>2</sub>e annual abatement capacity installed worldwide
- ▶ Backed by 25+ years of N<sub>2</sub>O abatement experience through in-house operations and licensing
- ▶ Delivers >99% N<sub>2</sub>O abatement - field-demonstrated performance
- ▶ Modular turnkey design - fast install with minimal disruption
- ▶ Energy-efficient reactor technology engineered for low operating costs
- ▶ Carbon credit market access enabled via partnerships across the Koch network