

# DRIVING CHANGE IN PTA TECHNOLOGY

**KOCH**  
TECHNOLOGY SOLUTIONS

A KOCH ENGINEERED SOLUTIONS COMPANY

## Unlock the Future with KTS Advantaged PTA Technology

At Koch Technology Solutions (KTS), we don't just license the best available technology; we tailor it to meet market needs. With an unwavering commitment to continual improvement, our state-of-the-art R&D facilities and unique expertise in purified terephthalic acid (PTA) set us apart. Over the past three decades, our dedicated team has tirelessly enhanced our technology, resulting in plants that demonstrate year-on-year industry-leading performance, operational reliability and environmental stewardship.

## Technological Excellence and Environmental Stewardship

### CONTINUOUS INNOVATION FOR A SUSTAINABLE TOMORROW

Our cutting-edge technology for production of PTA ensures that our customers benefit from industry-leading capital and operating costs, unparalleled plant reliability, and low carbon intensity. We've meticulously streamlined our processes to optimise the environmental performance and minimise raw materials and utility consumption, to be able to maintain a sustainable product offering to the PTA market. We have also developed a suite of custom solutions for existing PTA assets that help producers meet their ESG targets.

### CARBON FOOTPRINT REDUCTION

Through our deep understanding of process and chemistry, we've achieved a remarkable reduction in carbon intensity over the past two decades.

**58%** improvement  
in capital productivity

**50%** reduction  
in variable costs

**62%** reduction in  
steam consumption



**70%** reduction in  
total water requirement

**69%** reduction  
in carbon emissions

**3.5** fold improvement  
in electricity consumption  
to become a net exporter

# KTS PTA Technology: A Paradigm Shift

## ADVANTAGES THAT LEAD THE INDUSTRY

Our latest offering, P8++ PTA, stands at the forefront of innovation, offering licensees a multitude of advantages:

**SUPERIOR GRADE PTA PRODUCT**  
Our plants produce PTA suitable for all polyester applications, thanks to our proprietary paraxylene extraction process.

**LOW VARIABLE COST**  
Utilising a low temperature oxidation process, we achieve lower acetic acid and paraxylene burn, resulting in operating cost savings.

**LOW WASTE GENERATION**  
We re-use process water in all major plant duties and our R<sup>2</sup>R technology produces benzoic acid as a valuable co-product.

**EXCELLENT ENVIRONMENTAL PERFORMANCE**  
P8++ plants generate 69% less carbon emissions compared to our Year 2000 vintage technology, setting new standards for environmental stewardship.

**HIGH RELIABILITY AND UPTIME**  
Optimal selection of construction materials coupled with proven operating conditions ensure safety and long-term reliability.

**RAPID PROJECT EXECUTION**  
Our proven technology transfer process enables rapid project execution, with some licensees achieving a 24- to 28-month project schedule.

## Partnering for Success with KTS

### BEYOND LICENSING: A COMPREHENSIVE PARTNERSHIP

At KTS, we go beyond selling licenses—we build long-term partnerships. Our commitment to excellence extends beyond the technology to encompass a range of services:

- **Project Execution and Technology Transfer:** KTS has developed a deep knowledge of technology transfer from 50+ years of licensing. We operate a proven technology transfer process to deliver robust and reliable PTA plants.
- **Technical Expertise:** KTS benefits from a full range of technical expertise covering chemistry, process engineering, functional engineering, HSE and operation.
- **Comprehensive Customer Service Program:** From help desk support to on-site visits, inspection during overhauls, specialist engineering services, refresher training, and analytical services—we offer a holistic support package tailored to your needs.

In conclusion, Koch Technology Solutions is not just a provider of licenses; we are your long-term partner in achieving your goals in operating excellence, sustainability, and success in the PTA industry. By choosing KTS as your partner, you choose a sustainable future.

50+

PLANTS LICENSED WITH PTA TECHNOLOGY

35+

YEARS OF CONTINUOUS LICENSING

10+

CUSTOMERS WITH MULTIPLE PTA LICENSES

70+

MILLION ANNUAL TONNES OF PTA CAPACITY AROUND THE WORLD

See the potential that partnering with KTS can bring at [KochTechSolutions.com](https://KochTechSolutions.com).