

Gasification License Solutions and Plant Support



Air Products provides gasification solutions tailored to help customers meet the needs of their challenging and everchanging project requirements. Air Products is a Center of Excellence for gasification customers worldwide. We provide full life cycle project support from initial inquiry through commissioning and commercial operations.

What Differentiates Air Products?

Air Products has decades of global experience designing and operating the world's largest and most efficient plants. Our people have over 1,000 combined years of gasification experience. We offer both Sale of Gas and Sale of Equipment models. In the Sale of Gas model, Air Products owns and operates the plant to provide the syngas you need. In the Sale of Equipment model, we offer long-term license agreements that include the gasification process design, start-up support, operator training, and ongoing technical support. Our experience allows us to offer improved cycle times, reduced start-up times, and maintain high availability.

Commercial Feedstock Experience

Solid hydrocarbons via dry feed and slurries: we can convert the widest range of solid hydrocarbons and from lignite to anthracite, including petcoke and biomass blends into clean syngas.

Liquid hydrocarbons: we offer cost efficient high value solutions for bottom of the barrel residues from refineries as the world transitions away from high-sulfur fuels.

Gaseous hydrocarbons: as the world's leading hydrogen supplier, we develop world class, high-efficiency partial oxidation plants providing syngas for oxo-chemicals, carbon monoxide, hydrogen, or other intermediate and final products.

With over 200 licensees across Air Products' gasification technologies, we are committed to supporting each one throughout the life cycle of their assets

Gasification Aftermarket Services We Offer

- Plant design (new plants, expansions, improvement projects)
- Process Technology Feasibility Studies including:
 - Selection between feedstocks to reduce the OPEX
 - Rate and feedstock changes for existing assets
 - Process burner design improvements
 - Process de-bottlenecking
- Plant assessments for productivity, reliability, and operability improvements
- On-demand troubleshooting and efficiency support
- Field inspection/repair advisory
- Advanced process control, predictive analytics, control strategies and safety system reviews to improve availability
- Comprehensive onsite training and support
- Equipment design, supply, and spare parts
- Operation and maintenance programs

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**For more information,
please contact us at:**

Corporate Headquarters
Air Products and Chemicals, Inc.
1940 Air Products Blvd.
Allentown, PA 18106-5500
T 800-551-2995
ESPSinfo@airproducts.com

Air Products and Chemicals (China)
Investment Co. Ltd.
East Wing, Floor 1
Building #88, Lane 887
Zu Chongzhi Road
Zhangjiang Hi-Tech Park
Shanghai, 201203
P.R. China
T +86-21-3896256
ESPSinfo@airproducts.com

Regional Head Offices
Air Products PLC
Hersham Place Technology Park
Molesey Road
Walton-on-Thames
Surrey KT12 4RZ
UK
T +44-1932-249200
ESPSinfo@airproducts.com

Prodair Air Products India Pvt Ltd.
602, Pentagon 5
Magarpatta City
Hadapsar, Pune – 411013
Maharashtra, India
T +91-20-49115252
ESPSinfo@airproducts.com



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