



atmospheric & speciality
gases private limited

ATCO ATMOSPHERIC AND SPECIALITY GASES – THE GREAT EXPANSION

ATCO Atmospheric & Specialty Gases Pvt Ltd

- Leading in Specialty Gases since 2010
- 4th Generation Legacy in Industry Innovation



Our Core Strengths

- Empowering Industry with People, Technology, and Performance
- Making the World More Productive
- Delivering Market-Driven Solutions with Precision

Our Journey

- Great Expansion: Prepared with Foresight
- Triumph of Teamwork
- Strong Commitment to Customers & Chemistry
- Stable, Consistent Growth



Our Values

- Operational Excellence
- Unwavering Commitment to Safety & Environmental Stewardship
- Passion for Innovation
- Mission: Deliver Superior Products & Services





APPLICATION



With a legacy spanning four generations, ATCO ASG, led by visionary director Mr. Dhruvit Patel, offers unmatched expertise in the gas industry.



Our journey began 15 years ago with the expansion into industrial gases, solar gases, semiconductor gases, as well as tools and cylinders across the Indian market.



ATCO ASG holds the highest number of PESO-approved product-based storage facilities in India.



As a complete gas solutions provider, we specialize in production, sales, and services. Over the years, we have evolved from solely selling industrial gases to empowering the core sectors of manufacturing, infrastructure, healthcare, solar, and semiconductor industries with comprehensive and advanced solutions.

Driving Gas Efficiency and Sustainability with ATCO ASG



ATCO Atmospheric and Specialty Gases (ATCO ASG) proudly supplies and imports high-quality, durable solar, semiconductor, and specialty gases. We focus on product excellence and exceptional customer service, establishing ourselves as a leading gas supplier in the Indian market.



Leveraging our expertise in science and technology, we introduce innovative, environmentally sustainable gas products. Trusted leaders in the solar and semiconductor gas industry, we deliver high-purity gases and cutting-edge solutions.



Committed to improving gas efficiency and tackling global emissions, ATCO ASG is well-positioned as one of the largest integrated gas companies to contribute effectively to sustainable solutions.

MR. DHRUMIT PATEL

A young & dynamic director Two decades of experience in gas industries

Who has Clear development vision, committed to creating the industry's first private brand.



DECISION – MAKING

Have rational and ethical decisions, avoiding impulsive actions.



STRATEGIC DIRECTION

Draw a roadmap for the company's future, outline its purpose and objectives.



CLOSE ENGAGEMENT

To foster a sense of purpose and motivates team to align with the conventional goals.



REPUTATION AND TRUST

Ethical and socially responsible businesses build strong reputations and earn the trust of customers and stakeholders.

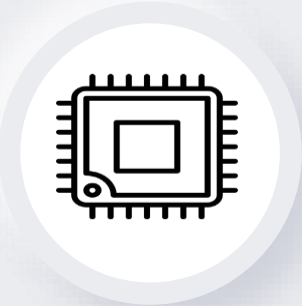


COMPETITIVE ADVANTAGE

A strong business philosophy can differentiate a company from its competitors and attract valuable customers and talent.

DOMAIN EXPERTISE: OUR PRODUCTS

We Cultivate A Dynamic Range Of Strategic Products Web That Evolve Daily, Meeting Emerging Needs And Setting Industry Benchmarks.



SEMICONDUCTOR
GASES



INDUSTRIAL
GASES



REFRIGERANT
GASES



CALIBRATION
GASES



SPECIALITY
GASES



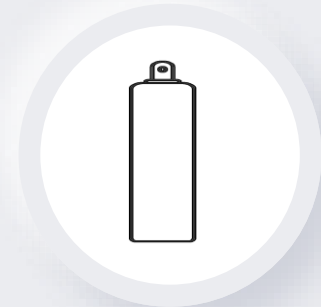
HYDROCARBONS
GASES



RARE
GASES



MEDICAL
GASES



NIST & HIGH STABILITY
GASES



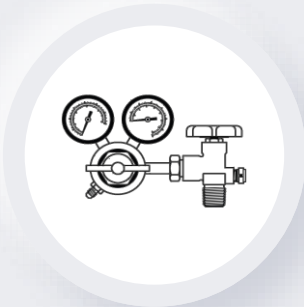
IMPORTED & PROCESS
MIXTURES



GAS CABINET & GAS
HANDLING EQUIPMENTS



CENTRAL GAS
DISTRIBUTION



GAS PRESSURE
REGULATORS & VALVES

SOLAR AND SEMICONDUCTOR GASES

SILANE – SiH_4	AMMONIA – NH_3	ETHYLENE – C_2H_4	KRYPTON – KR	NITROUS OXIDE – N_2O
DIFLUOROMETHANE – CH_2F_2 , R32	DISILANE – Si_2H_6	HYDROGEN FLUORIDE – HF	NITROGEN TRIFLUORIDE – NF_3	CARBON MONOXIDE
HEXAFLUORO – 1,3-BUTADIENE	HEXAFLUOROETHANE – C_2F_6	NITROGEN DIOXIDE – NO_2	SILICON TETRAFLUORIDE – SiF_4	CHLORINE TRIFLUORIDE
METHYL FLUORIDE – CH_3F	NITRIC OXIDE – NO	BORON TRICHLORIDE – BCl_3	TRIMETHYLSILANE – $\text{C}_3\text{H}_{10}\text{Si}$	DIBORANE
OCTAFLUOROCYCLOBUTANE – C_4F_8	OCTAFLUOROPROPANE – C_3F_8	TRIFLUOROMETHANE – CHF_3 , R23	ARGON	DICHLOROSILANE
SULFUR HEXAFLUORIDE – SF_6	TETRAFLUOROMETHANE – CF_4 , R14	DEUTERIUM – 2H , D_2	BORON TRIFLUORIDE – BF_3	FLUORINE MIX
XENON - XE	CHLORINE – Cl_2	HELIUM – HE	ARSINE	GERMANE
NITROGEN	HYDROGEN	NITROUS OXIDE	OCTAFLUOROCYCLOPROPANE	OXYGEN
HEXACHLORODISILANE	PHOSPHINE	HYDROGEN BROMIDE	HYDROGEN CHLORIDE	HYDROGEN SULPHIDE
MONOMETHYLSIALNE	TRIMETHYL BORON	CARBON DIOXIDE		

Range of our Speciality Gases

INDUSTRIAL GASES

ACETYLENE	ISO-BUTANE	METHYL BROMIDE	CARBON MONOXIDE	SULFUR DIOXIDE
AIR	SULFUR HEXAFLUORIDE	HELIUM	CHLORINE	ISO-BUTYLENE
AMMONIA	ETHYLENE OXIDE	CARBON DIOXIDE	PROPYLENE	ETHYLENE
1-3 BUTADIENE	HYDROGEN	OXYGEN	NITROGEN	METHANE
ARGON	HYDROGEN CHLORIDE	PROPANE	METHYL CHLORIDE	NITROUS OXIDE

CALIBRATION GASES

BAUSCH & LOMB COMPATIBLE LASER MIXTURE	1% F2 + 4.5% AR BAL NEON
NIDEK COMPATIBLE LASER MIXTURE	VISX COMPATIBILITY LASER MIXTURE
ZEISS COMPATIBLE LASER MIXTURE	WAVELIGHT COMPATIBLE LASER MIXTURE
1% F2 BAL N2	EXCISTAR OF COHERENT COMPATIBLE LASER MIXTURE
5% F2 BAL N2	0.5% F2 BALL N2
1% F2 + 3% KR BAL NEON	10% F2 BALL N2
1% CL + 1.5% XE BAL NEON	1% F2 + 1.5% HE BAL NEON

HYDROCARBON GASES

METHANE			CIS-2-BUTANE	
ETHANE	ETHYLENE	ETHYNE	TRANS-2-BUTANE	
PROPANE	PROPYLENE	PROPYNE	CYCLOPROPANE	PROPADIENE
BUTANE	BUTYLENE	BUTYNE	CYCLOBUTANE	BUTADIENE
PENTANE	PENTENE	PENTYNE	CYCLOPENTANE	PENTADIENE
HEXANE	HEXEN	HEXYNE	CYCLOHEXANE	HEXADIENE
HEPTANE	HEPTENE	HEPTYNE	CYCLOHEPTANE	HEPTADIENE
OCTANE	OCTENE	OCTYNE	CYCLOOCTANE	OCTADIENE
NONANE	NONENE	NONYNE	CYCLONONANE	NONADIENE
DECANE	DECENE	DECYNE	CYCLODECANE	DECADIENE
UNDECANE	UNDECENE	UNDECYNE	CYCLOUNDECANE	UNDICADIENE
DODECANE	DODECENE	DODECYNE	CYCLODODECANE	DODECADIENE

REFRIGERANT GASES (OUR MAKE FARON)		
R-407C	R-134A	R-22
R-404A	R-32	R-290
R-600	R-152	R-14
R-23	R-116	R-125
R-1234YF	R-1234ZE	R-410A

RARE GASES
ARGON
NITROGEN
XENON
HELIUM
NEON
KRYPTON

Powering Progress with Solar & Semiconductor Gas Solutions

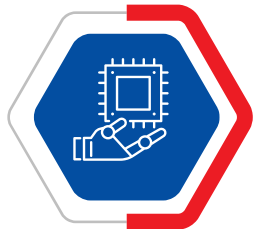
With a focus on safety, lean operations, innovation, rigorous quality control, robust logistics, and exceptional after-sales support, we provide our customers with comprehensive solutions.

Our Products – Diverse Industrial Applications



Photovoltaic Solar:

Our high-purity specialty gases and chemical etchants enhance solar cell conversion efficiency and significantly reduce production waste, making solar energy more cost-effective for global markets.



Semiconductor

ATCO ASG supplies ultra-high purity gases (99.9999%+), including Ar, He, NH₃, N₂O, CO₂, TEOS, and carbon fluorides. These gases ensure minimal contamination for processes such as etching, deposition, ion implantation, and chamber cleaning, supporting advanced transistor architectures and chip miniaturization.



SILANE – SiH₄

1

Silane is a colorless, pyrophoric gas with a strong, unpleasant odor, widely used as a precursor to elemental silicon in the semiconductor and solar cell industries.

2

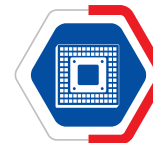
Applications include semiconductor and solar cell manufacturing, coatings, textile processing, and chemical production.

3

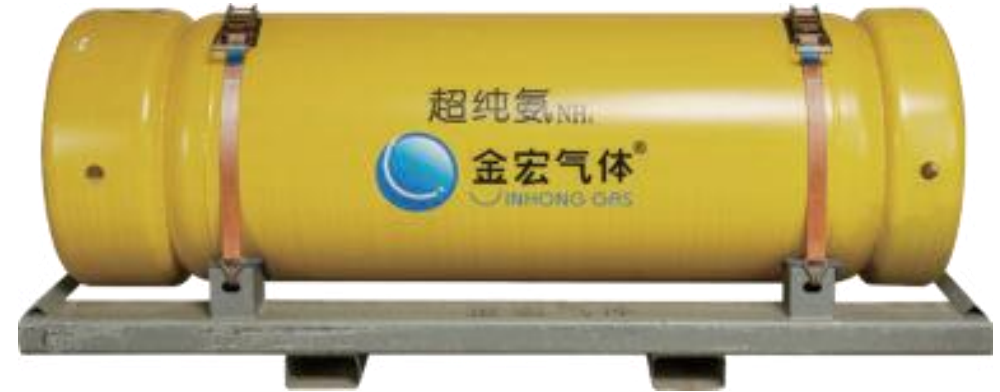
Essential for producing silicon wafers, transistors, and other electronic components.

4

ATCO offers a reliable supply of high-purity silane, along with comprehensive support—distribution, equipment leasing, and technical consultation—to meet diverse customer needs and ensure timely, stable delivery.



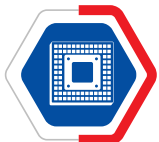
AMMONIA – NH₃



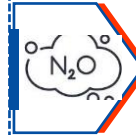
Ammonia (NH₃) gas finds widespread use in various industries, primarily as a refrigerant, a raw material for producing fertilizers and other chemicals, and in cleaning applications. It's also used in wastewater treatment, the food and beverage industry, and for metal treating, among other applications.



UHP Ammonia is a high-purity gas commonly used in semiconductor manufacturing and other high-tech applications such as silicon wafer manufacturing and semiconductor device production. It can also be used in high-tech fields such as graphene growth, solar cell manufacturing, and chemical vapor deposition. In these applications, high-purity ammonia gas is critical for manufacturing quality and equipment reliability.



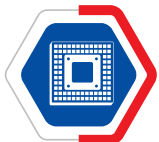
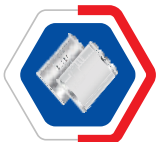
NITROUS OXIDE –N₂O



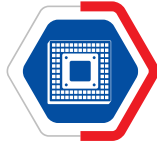
Nitrous oxide is an essential high-purity gas in the semiconductor industry and can be used to manufacture high-purity semiconductor materials and devices. In addition, nitrous oxide is also widely used in fields such as medical treatment, food, chemistry, metallurgy and aviation.



We also provides comprehensive technical support and consulting services while supplying gas, to ensure that customers can obtain stable excellent performance and high production efficiency in the manufacturing process.



TEOS – $C_8H_{20}O_4Si$



Tetraethyl Orthosilicate (TEOS) is used as the raw materials used in **semiconductor technology** deposition can be used for low pressure chemical vapor deposition (LPCVD) the surface of silica in SiC wafers deposits, ensure the density of the oxide layer medium and SiC wafers adhesion ability, improve the performance of the device and yield, and avoided in order to obtain a certain thickness of oxide layer of the shortcomings of long time high temperature oxidation.

TRIMETHYLALUMINUM - TMA

Trimethylaluminum (TMA) is a specialty gas used in **solar cell manufacturing** to create a thin layer of aluminum oxide (Al_2O_3) on the silicon surface. This layer acts as a passivation layer, improving the efficiency and stability of solar cells. The process typically involves atomic layer deposition (ALD) or chemical vapor deposition (CVD).



CYLINDER TREATMENT SERVICES

We provide professional cylinder treatment services based on the properties and specific requirements of the carrier gas. Our process includes internal polishing, surface treatment, periodical inspection, disposal of scrapped gas cylinders, and guaranteeing stability and safety during storage and transportation.



1

Cylinder
reception



2

Residual gas removal
and valve disassembly



3

Internal oxide
cleaning



4

Internal oil
stain cleaning



5

Internal grinding
and polishing



6

Internal
cleaning



7

Gas
purging



8

Valve
assembly



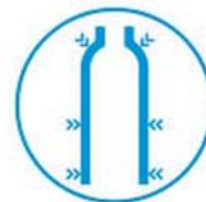
9

Leakage
test



10

Vacuum drying
and moisture



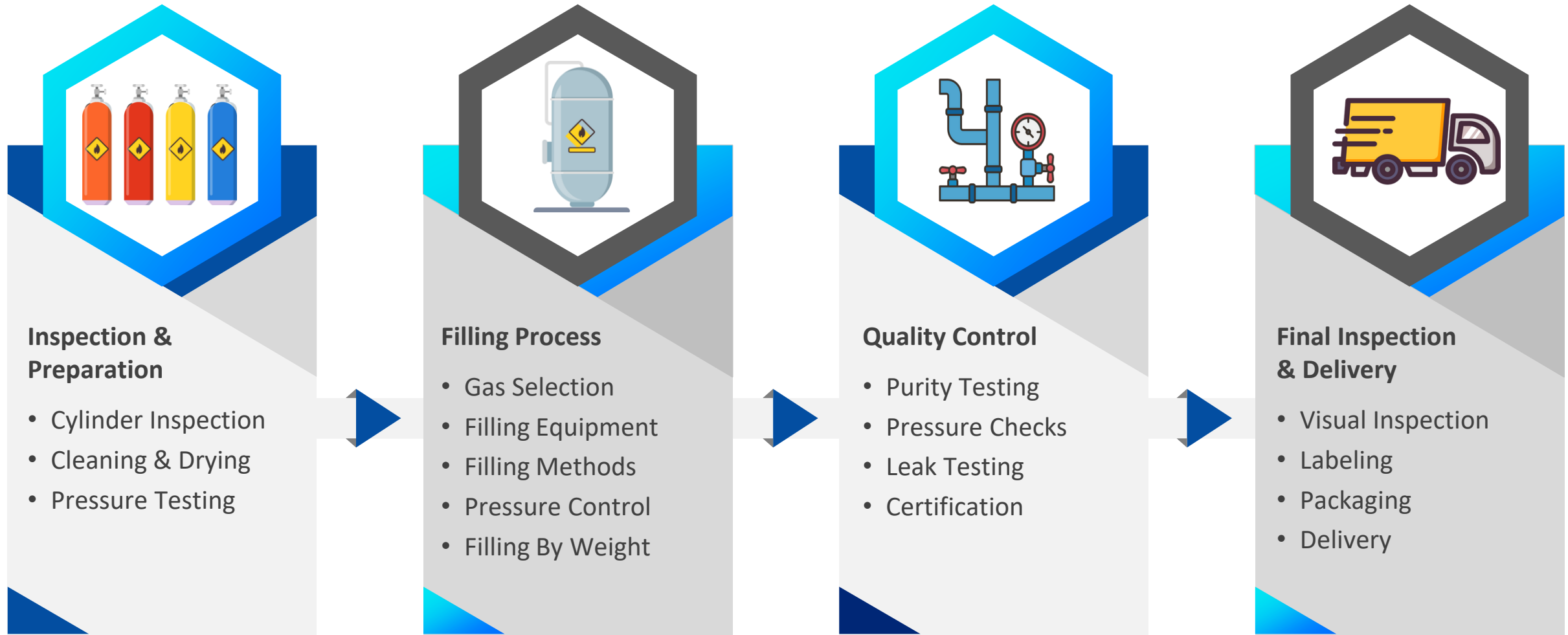
11

External surface
treatment



12

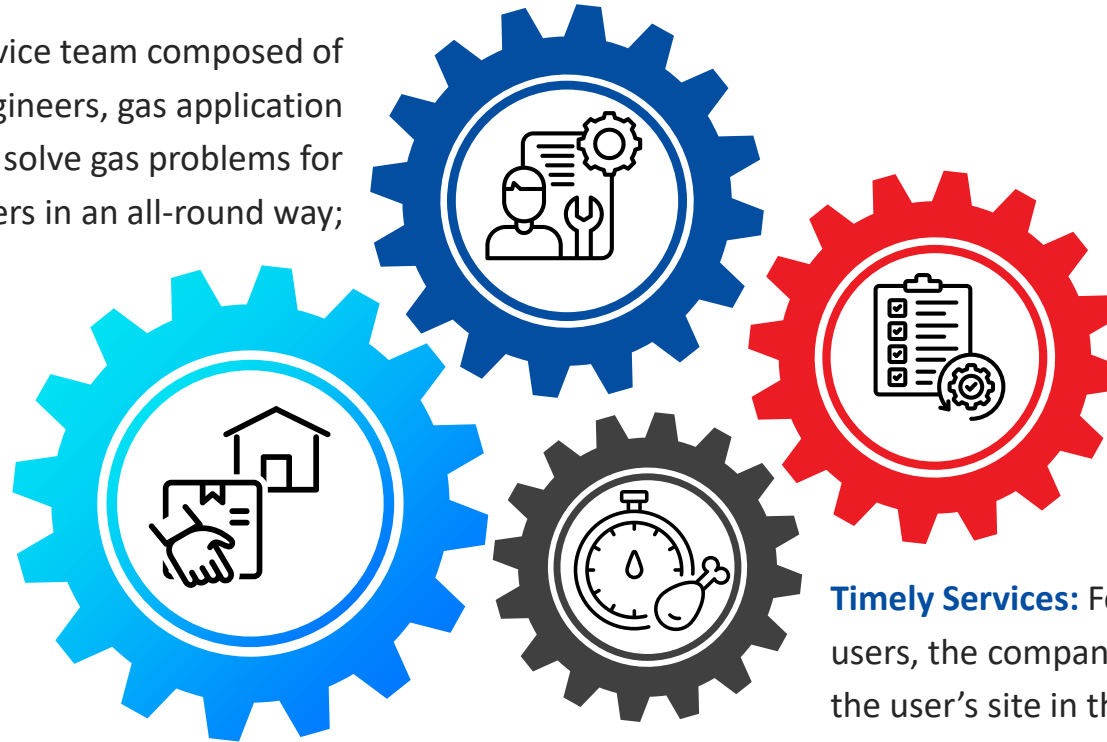
Processing
complete



With 'Pure Gold Quality' as our guiding principle, ATCO ASG is dedicated to crafting unforgettable customer experiences. Our team is empowered with knowledge, driven by performance, and committed to customer satisfaction.

Professional Services: A professional service team composed of equipment engineers, instrument engineers, gas application engineers and analysis engineers can solve gas problems for users in an all-round way;

Convenient Services: Receives the user's demand at any time. If the user's service demand is received by any team, it will be transferred to the service department and processed at the prior;



Planned Services: Regularly track and inspect the customer's on-site facilities, complete the routine main-tenance work as planned, and minimize the influencing factors of the facilities;

Timely Services: For the temporary service needs of users, the company will arrange professionals to rush to the user's site in the shortest time to solve the problem as quickly as possible;

Our Infrastructure Encompasses The Essential Systems, Processes And Tools That Enable Us To Operate Efficiently, Supporting Our Goals And Facilitating Sustainable, Profitable Growth.

INNOVATION

At ATCO ASG, our Applications Technology teams across India are dedicated to creating new value for our customers through innovative and sustainable solutions. We help enhance productivity, improve quality and safety, and reduce both costs and environmental impact in their processes.

OUR STATE-OF-THE-ART FACILITIES

- Speed is a core principle at ATCO ASG. Our cutting-edge engineering, technology, and manufacturing centers, strategically located in emerging markets worldwide, empower us to respond swiftly and innovate effectively to meet our customers' evolving needs.

CORE VALUES AND PRINCIPLES

- **Customer-Centricity:** We prioritize customer needs and satisfaction in every aspect of our business.
- **Innovation:** We continuously pursue new ideas, products, and processes to maintain leadership in the industry.
- **Sustainability:** We are committed to environmental responsibility and ethical business practices.
- **Employee Well-Being:** We foster a supportive and positive work environment that values and nurtures our employees' contributions.
- **Collaboration:** We promote teamwork and open communication to achieve shared goals.

OUR CUTTING-EDGE FACILITY BOASTS:

Our Infrastructure Encompasses The Essential Systems, Processes And Tools That Enable Us To Operate Efficiently, Supporting Our Goals And Facilitating Sustainable, Profitable Growth.

Advanced gas filling stations and manifolds

High-quality regulators and valves

Extensive storage capacity for over 30,000 cylinders, categorized for efficient management.

Modern laboratory equipped with latest technology.

Advanced gas purification systems achieving up to 7.0 N purity for various gases

Streamlined cylinder handling automation, featuring fork lifts, gantry cranes, trolleys, and lift gates.

We have end-to-end solution encompasses gas filling, storage, and logistics, delivering products directly to customers' doorstep, tailored to the needs.



Indian's first company to import B2H6 (diborane) & TMB mix. (Trimethyl boron)

A dynamic person who started working at the age of 25 and founded the ATCO Group in 2010. ATCO started as an import of Gases. The turning point came after he was exposed to a new product—Special gas.

INDIA'S LEADING SUPPLIER FOR KRYPTON & XENON

With great success in the gas manufacturing and distribution market, we have 70% market cover in rare gases.

INDIA'S LEADING SUPPLIER FOR KINDS OF REFRIGERANT GASES

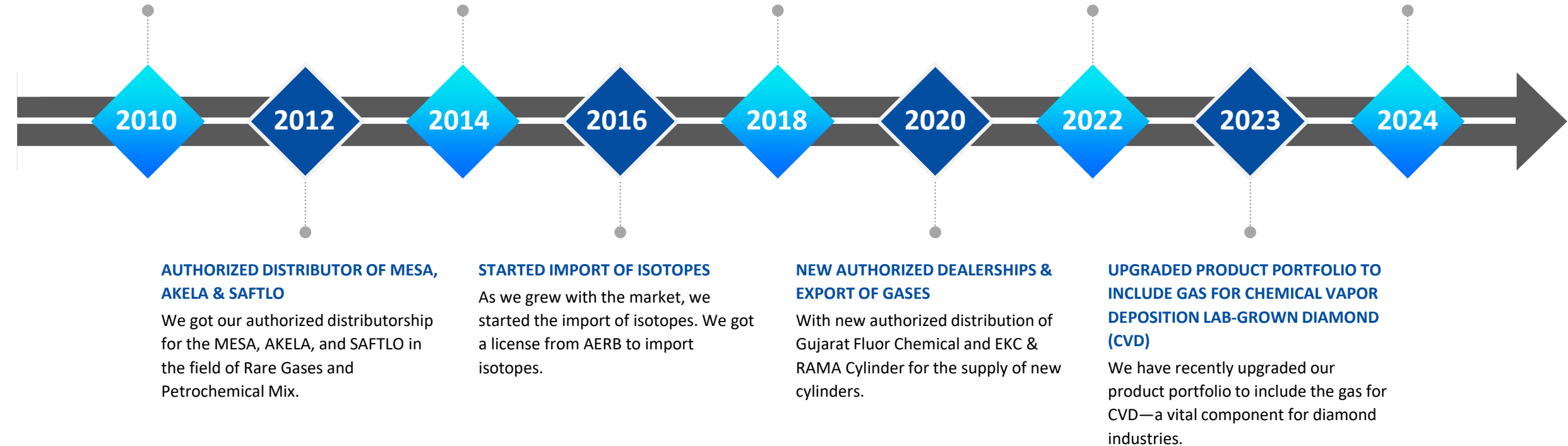
New facility developed to store 1,500 cylinders as we were growing best in the market with great demand. Refrigerants like R454b, R717, R502, R410a, R1270.

MORE DISTRIBUTORSHIP & EXPANDING IN THE GLOBAL MARKET

Authorized distribution for Global Product IND. Singapore PTE Ltd. for India, Europe, Africa & American continent. India's leading supplier for electronic semiconductor gases.

EXPANDING PLANT & PRODUCT PORTFOLIO | ISO9001 CERTIFICATION

In this year, expanding portfolio calibration plant and focusing area Calibration Gases and Mixture. ISO9001 quality management system certification was passed.



Vision: To be a world-leading provider of specialty gases in INDIA

Corporate vision is the long-term development plan, which defines the growth targets and blueprints of a company. ATCO ASG is committed to the following aspects in realizing its corporate vision:

Being sustainable

It implements the development strategies of value-oriented, innovation-driven, resources-optimized, open cooperation, high purity gas growth. Adjusting itself to the new business environment, ATCO speeds up its transformation and restructuring to improve effectiveness and quality of products so as to sustain its profitability and competitiveness in business.



Bringing benefits to all

It prioritizes technology and puts people first in providing high quality products, technologies and services. It endeavors to be a responsible and respectable company to its employees, clients, shareholders, the general public as well as the people in the host countries of its business operations.



Being a leader

Being a leader is not only in business scale, but also in the quality of products, efficiency, corporate culture and image, international competitiveness, and -oriented operations. Benchmarking these world leading standards, ATCO ASG is making unremitting efforts to become a world leading company with high- market efficiency governance, leading corporate culture, advanced market-oriented and international operations as well as leading technologies, talents and brand.



Mission: Better energy for better living

Our Purpose:

To help people achieve a better life by delivering cutting-edge technologies, premium products, and quality services.



Commitment to Sustainability:

Pursuing sustainable development through high purity gas production, transforming practices to conserve resources and protect the environment.



Customer Focus:

Providing reliable, professional, and innovative solutions with friendly, excellent, and convenient service.



As we have proposed plan, we are maintaining for the same to expand our storage capacity to exhilarate our work to get growth



Storage Solutions for Business Growth: Our New Facility Overview



Modern Infrastructure

- Our facilities feature contemporary design and construction, strategically located to connect with major natural gas transmission systems.
- Large-scale storage capacity (e.g., Alberta Hub: ~43 billion cubic feet), coupled with advanced compression and monitoring technology for maximum reliability and efficiency.

1

Safety & Security

- We prioritize industry-leading safety standards, implementing comprehensive monitoring systems and strict operational protocols.

2

Scalability

- Facilities are built for future expansion, offering scalable solutions that address a diverse range of client storage requirements.

3

Environmental Responsibility

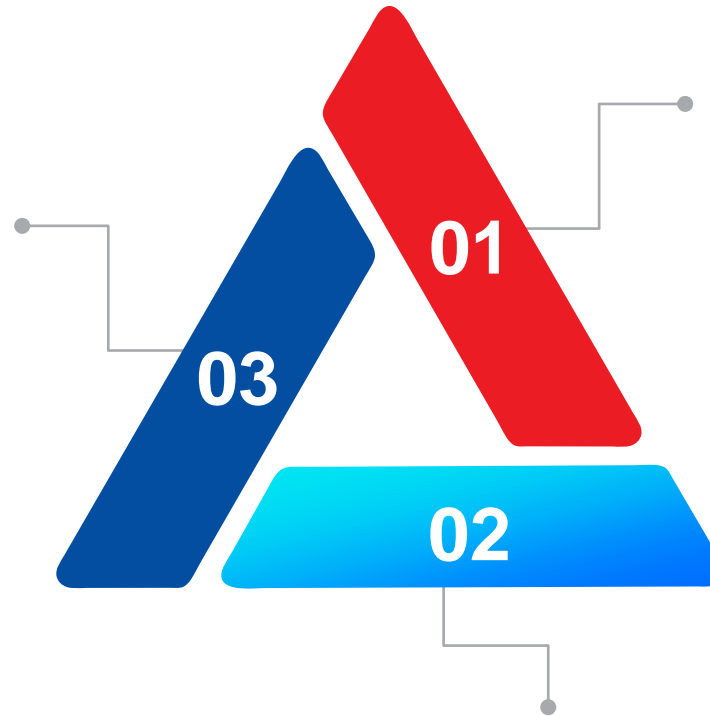
- Commitment to sustainable practices, such as upgrading to efficient equipment and integrating eco-friendly operational procedures to minimize environmental impact and support carbon reduction objectives.

4

Why Choose ATCO ASG?

Peace of Mind

Clients benefit from a facility built for safety, reliability, and operational excellence in a future-ready energy landscape



Strategic Partner

More than just a storage provider, ATCO is dedicated to powering the energy transition and ensuring a seamless flow of energy during critical supply-demand imbalances.

Innovation & Expertise

Our modern infrastructure, technical expertise, and commitment to continuous improvement make us a trusted partner for the future of energy storage

OUR STRATEGIC CUSTOMERS

adani

Premier
Energies

WAAREE®
One with the Sun


JUPITER
TOWARDS A GREEN FUTURE

WEBEL

SOLAR


Linde


BHORUKA


EMMVEE




PRAXAIR


इसरो isro


इंडियनऑयल
IndianOil



Semiconductor Laboratory
Department of Space


TATA
TATA POWER


भारत की सेवा में परमाणु
भा प अ के
BARC
ATOMS IN THE SERVICE OF THE NATION


गैल
GAIL



OUR PLANT ADDRESS

Plot No 489, Piglaj Gam, Malarpura Kashipura Road, Aslali Bareja Highway,
Kheda - 387540, Gujarat India



CORPORATE OFFICE

No. 33, Amba Industrial Estate, B/H Shalin Square, Vinzol Ring Road Circle,
Vatva Ahmedabad – 382445, Gujarat, India



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atmospheric & speciality
gases private limited

Thank You for Your Attention

