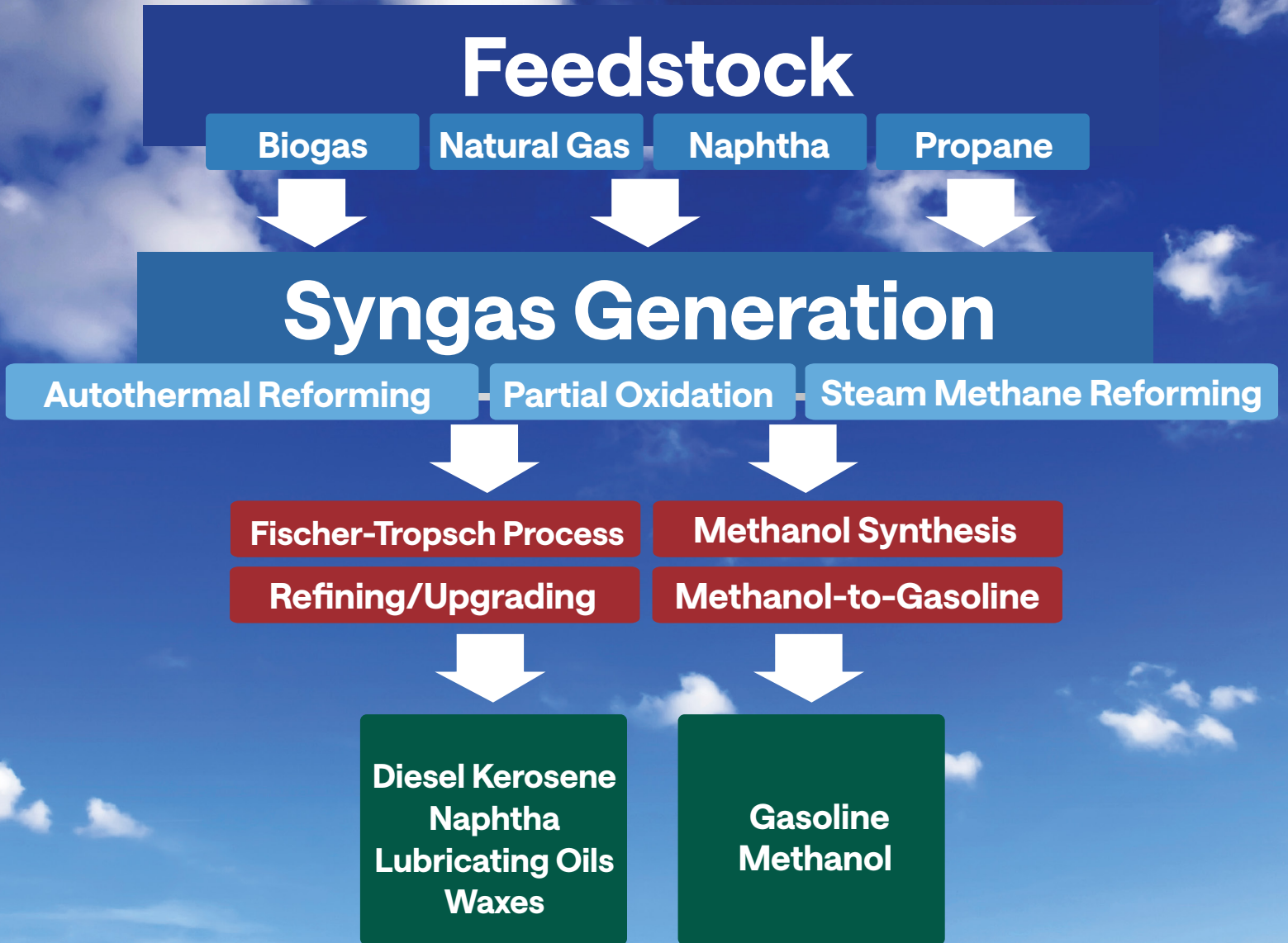


# GTL

+other HC feedstocks

Nippon Sanso Matheson owns and operates the syngas plant. *You focus on the GTL process.*



*Introducing the Nippon Sanso Matheson GTL Processing Strategy, and how it lowers your costs and reduces risk.*



**NIPPON  
SANSO**

# With **Nippon Sanso Matheson** responsible for the syngas production plant, *You are in better control of your GTL operation.*

New sources of natural gas are being discovered every day... in the US and globally. Chemical companies of all sizes are seeking to use this NG in a way that is profitable and safe ... with financial risk that is manageable.

**Nippon Sanso Matheson** provides a partnering strategy that enables chemical companies to focus on the critical downstream portion of the plant while Nippon Sanso Matheson focuses on the syngas production.

**Nippon Sanso Matheson** Gas Professionals are responsible for the design and operation of the syngas plant. We build it, we own it (and maintain it), and we staff it. We deliver syngas to you in a safe, reliable, cost effective manner, thus reducing project capital and risk.

Nippon Sanso Matheson's GTL Processing Strategy fixes costs, manages risk, and ensures plant availability.



## The **Nippon Sanso Matheson** GTL Processing Strategy

### Leverages **Nippon Sanso Matheson** Core Competencies

**Nippon Sanso Matheson** Gas Professionals are no strangers to gas product processing. We have designed, built, and commissioned hundreds of gas product processing plants in the US and around the world – for our own commercial enterprise as well as for “captive” processing.

Among our many core competencies for gas product processing:

**LARGE PLANT MANAGEMENT – Nippon Sanso Matheson** has a longstanding, proven track record for successful and safe management of large cryogenic and syngas plants.

**GAS PLANT DESIGN** – Recognized globally for air separation and supporting subsystems. Expertise in SMR and ATR design and operation.

**LIQUEFACTION** – Syngas, air separation products (Nitrogen, Oxygen, Argon), LNG, Helium, Carbon Dioxide, Hydrogen, other liquefied gases.

**SEPARATION/PURIFICATION** – Production-scale removal of impurities, contaminants, and by-products.

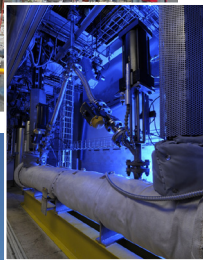
**STORAGE** – Piping, management, and storage of cryogenic and hydrocarbon products.

**LOADING/DISTRIBUTION** – Liquid phase filling into transportation vessels (tanks, trailers, railcars, barges).

**OPERATIONS** – Staffing, production, scheduling, maintenance, upgrades, inspections, security, etc.

**LIQUID PRODUCT STORAGE** – Bulk storage, vessel construction, cryogen transfer.

**BUSINESS MODEL** – **Nippon Sanso Matheson** has used the own/operate plant business model for supply of bulk gases such as Nitrogen, Oxygen, Hydrogen, Syngas, and others.



# A Partnership to Improve Management of the GTL Production Facility

In the **Nippon Sanso Matheson** GTL Processing Strategy, **Nippon Sanso Matheson** owns the syngas plant, is responsible for its operation, and manages the output of the plant.

## Design and Build

In full collaboration with the GTL plant owner (you), **Nippon Sanso Matheson** designs and builds a syngas plant specifically suited and fully integrated with your GTL plant requirements to optimize operational costs.

We analyze available technologies, select specific design components, and guide the plant design and construction based on the individual needs of each project.

By assuming ownership of the complete syngas plant operation, **Nippon Sanso Matheson** is responsible for plant design, land use, local approvals, construction, commissioning, and operation.

## Own and Operate

As a syngas provider, **Nippon Sanso Matheson** assumes complete turnkey system ownership, including all aspects of plant operation, maintenance, safety, certifications, and staffing.

Variable costs of operation, such as energy, are Nippon Sanso Matheson's management responsibility. Other risks of facility operations – ranging from routine plant maintenance to recovery from unexpected storm damage – are also part of Nippon Sanso Matheson's management responsibility.

Because operational overruns would otherwise accumulate year-after-year, efficient plant operations is one of Nippon Sanso Matheson's most valuable core competencies.



## About Nippon Sanso Matheson

Nippon Sanso Matheson is a single source for industrial, medical, specialty and electronic gases, gas handling equipment, high performance purification systems, engineering and gas management services, and on-site gas generation. Our mission is to deliver innovative solutions for global customer requirements.

Nippon Sanso Matheson is part of the Nippon Sanso Holdings Group, a global corporation with 300 group companies and approximately 20,000 staff, operating in four regions around the world: Japan, the United States, Europe, and Asia/Oceania.

We have a depth of technology and resources that can come only from a global enterprise.

## Nippon Sanso Matheson and Safety

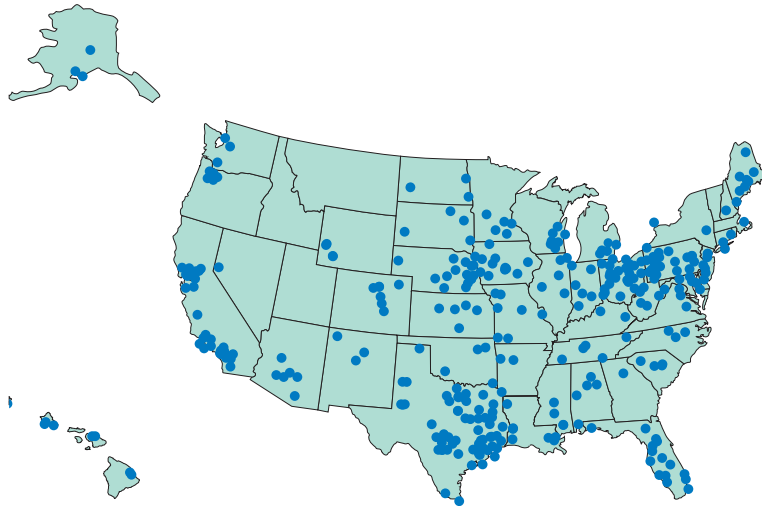
Nippon Sanso Matheson places the highest value on Safety – every day. We value our safety record, and we've received many industry awards for our safe operations. All of our employees are thoroughly trained on an ongoing basis to deliver Nippon Sanso Matheson's safety standards.

## Nippon Sanso Matheson and Quality

Nippon Sanso Matheson also places the highest value on Quality. Our plants are certified to ISO 9001 standards, and we employ Lean Six Sigma (LSS) principles to measure and improve our quality results on a basis of continuous improvement

## Nippon Sanso Matheson and Sustainability

Nippon Sanso Matheson is committed, at all levels, and in all locations, to principles of Sustainability and Corporate Responsibility. Our principles embrace Environmental Sensitivity, Community Support, and Financial Performance. Our aim is to ensure uninterrupted access to our products and services.



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## Our Mission:

Our core competency is the supply, delivery, and management of gases and gas production sub-systems and plants. Your core competency is putting those gases to work to make your process safer, more efficient, and more profitable.

Our Mission is to focus on our core competency so you can focus on yours.

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