

Solutions for Compressed Gas & Refrigeration Industry

with **Mayekawa**



Mayekawa started our business with **ice manufacturing** and **cold storage business**. Ever since its **foundation in 1924**, we have always identified itself in the context of the 'environment that enables the company operate'. By promoting collaborative creation with elements constituting the environment, Mayekawa has solved many problems and in turn developed itself.



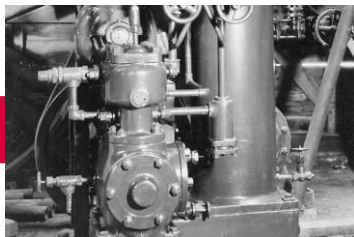
100th ANNIVERSARY

1924



Kisaku Maekawa founded Mayekawa & Co. in Tokyo, Japan.

1934



Started production of industrial vertical low speed reciprocating compressors.

1958



Developed high-speed multi cylinder single-stage reciprocating compressor 'A Series'.

1961



Delivered 12 sets of **100 ton/day meat freezing** and 12,000 ton of cold storage plants complete with liquid pump recirculation.

1964



Established MAYEKAWA's first overseas subsidiary company, MAYEKAWA DE MEXICO S.A. in Mexico.

1968



Established our subsidiary company, MAYEKAWA DO BRASILTDA. in Sao Paulo, Brazil.

1967



Established our subsidiary company, MAYEKAWA U.S.A. Inc., in Los Angeles, Calif., U.S.A.

2008



Established a new plant in Aruja, Brazil by integrating **refrigeration assembly plant** and our **chemical package system** production plant.

Global network

Headquartered in Tokyo Japan, Mayekawa provide products and services all over the world through an extensive network of local offices and plants.



BELGIUM
N.V. MAYEKAWA EUROPE
S.A. – Zaventem, Belgium



SERBIA
D.O.O. MAYEKAWA
SRB - Smederevo

HEADQUARTER FACTORY
● Moriya Plant – Tokyo Japan



https://mayekawa.com/company/global_network/

MEXICO
Mayekawa de México
S.A. de C.V. –
Cuernavaca Plant



UNITED STATES
MAYEKAWA U.S.A.,
INC. – KATY Houston



**Higashi
Hiroshima Plant**



Saku Plant



SOUTH KOREA
CHANGWON PLANT



BRAZIL
Mayekawa Brazil –
Arujá Sao Paulo Plant



INDIA
MAYEKAWA INDIA PVT. LTD.
CHENNAI PLANT



Presence in
45 countries

More than
+100 offices
globally

With
10 Plants (total)
strategically installed

Applications

with **Mayekawa**

We are involved in various industries, systems and products by contributing to facilitate eco-friendly and energy-saving production.

Logistics



Cold storage
Marine
Ice Making

Beverage



Beer
Beverages

Social



Leisure & Sports
Infrastructure

Food



Frozen food
Meat, Dairy & Poultry
Fruit & Vegetables

HVAC



Building
Factory
Research Institute

Oil & Gas



Upstream &
Midstream
Downstream

Energy



Thermal Energy
Clean Energy
Clean Fuels

Products Handbook



SCREW COMPRESSORS

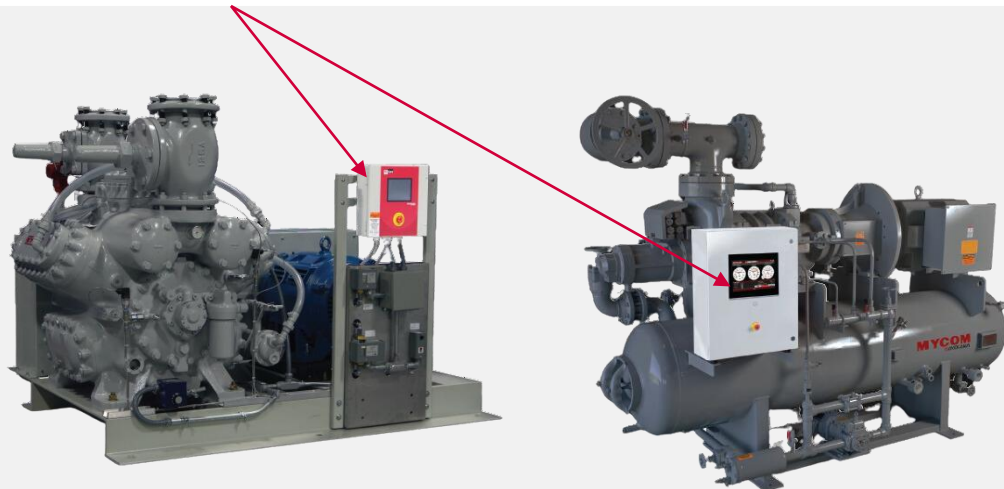


RECIPROCATATE COMPRESSORS



Under the **MYCOM** brand, Mayekawa's compressors are used worldwide in industrial refrigeration and freezing, heat pumps, and gas markets. Our compressors leverage thermal technology developed through years of experience to consistently provide high quality. **We also offer a full lineup of environmentally-friendly compressors that use natural refrigerants.** We have received high evaluations for gas compressors through our experience with helium, hydrogen, water vapor, chlorine, hydrogen chloride, hydrogen sulfide (excluding oxygen and acetylene), and other gases in dealing with resource- and energy-related problems.

CONTROL PANELS



LUBE OIL PUMPS



PARTS & SERVICES



Products Handbook

MAYEKAWA

SCREW COMPRESSORS

Packages

Supplying the US market from standard refrigeration packages to complex, high-spec packages since 1967.



Flare Recovery Package -
Mayekawa USA
200M / 700kW



Biogas Package - Mayekawa
USA
3225SSC / 900HP



Refrigeration Package -
Mayekawa USA
250VLD / 600HP
Mayekawa Compressor
Packages



Propane Compressor Package -
Mayekawa USA
3225SSC / 1500HP



LNG BOG Compressor - Brazil
200C / 1400kW



Vapor Recovery Compressor - Vietnam Offshore
3225MMC / 600kW



LPG Transfer Compressor - Mexico 6HK /
45kW



NH3 Recovery / Purification Plant - China 2520SSC
/ 280kW



Gas Turbine Booster - Nigeria
GH250S / 550kW



Refrigeration Package - Mayekawa USA
3225SSC / 1000HP



NH3 BOG System - Morocco
160M / 130kW



CO2 Liquefaction Plant - Korea
200S / 230kW



PSA Compressor - Russia
400L / 1320kW



LNG BOG Compressor - Turkey
400S / 830kW



Gas Chiller - Africa Offshore
4032XLLL / 2400kW



Propane Refrigeration Compressor - Korea
4032XLLLC / 3000kW

MYCOM

Screw Compressors

V-Series



J-Series



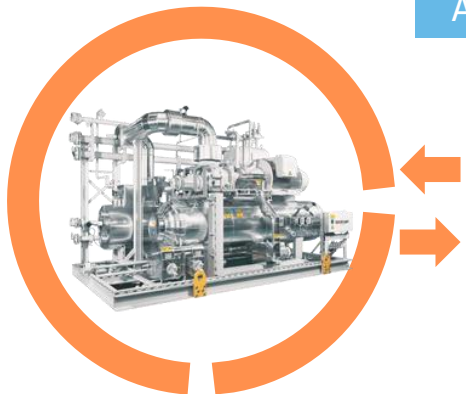
UD-Series



C-Series



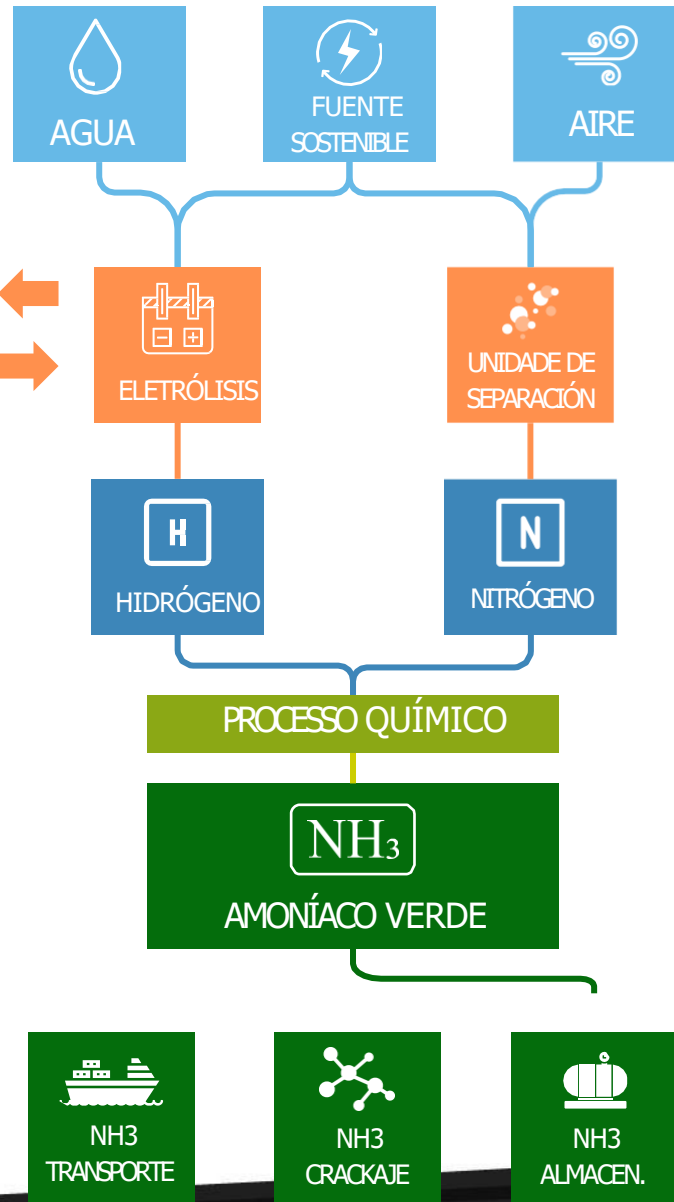
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Unidad Chiller
Mayekawa para
enfriamiento de agua

*Please consult us for further details.

<https://mayekawa.com/americas/mna/> 6

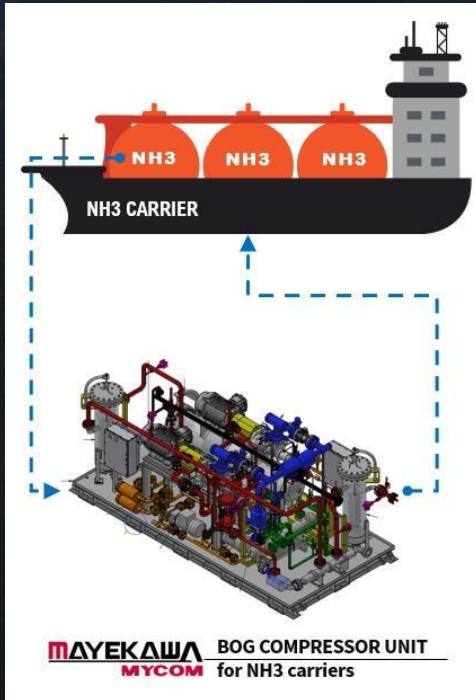


Mayekawa Compressor Packages

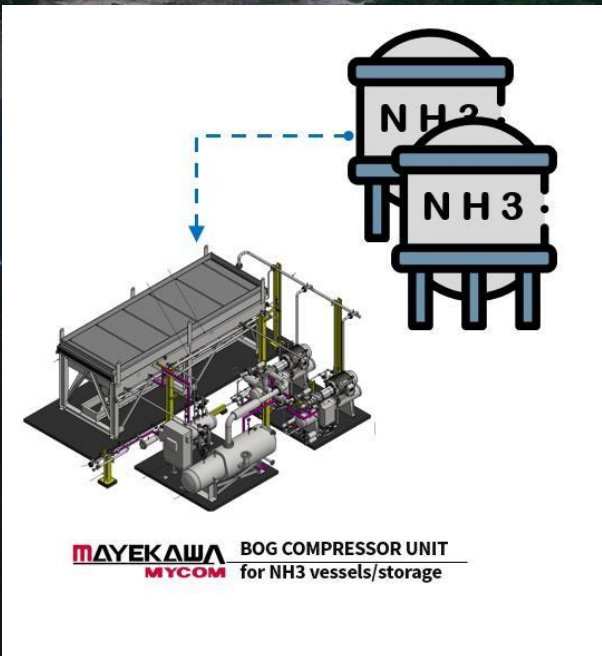
ONSHORE — Green Ammonia and H2 cycle and Application



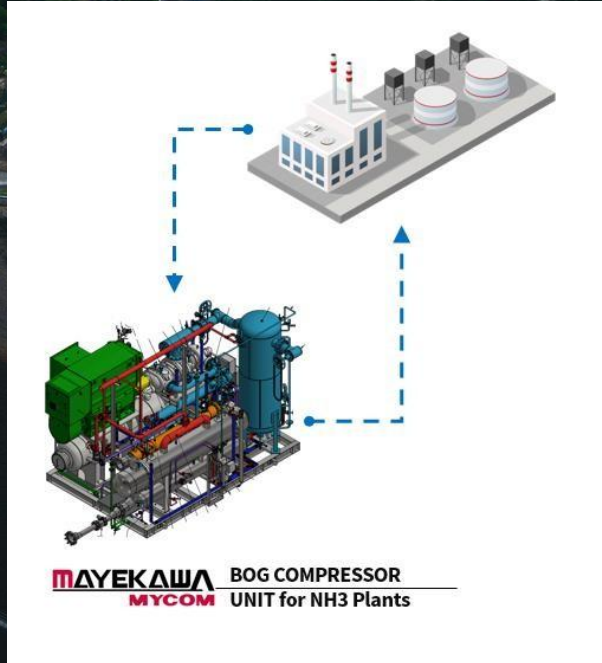
H2 and Ammonia Export



H2 and Ammonia Storage

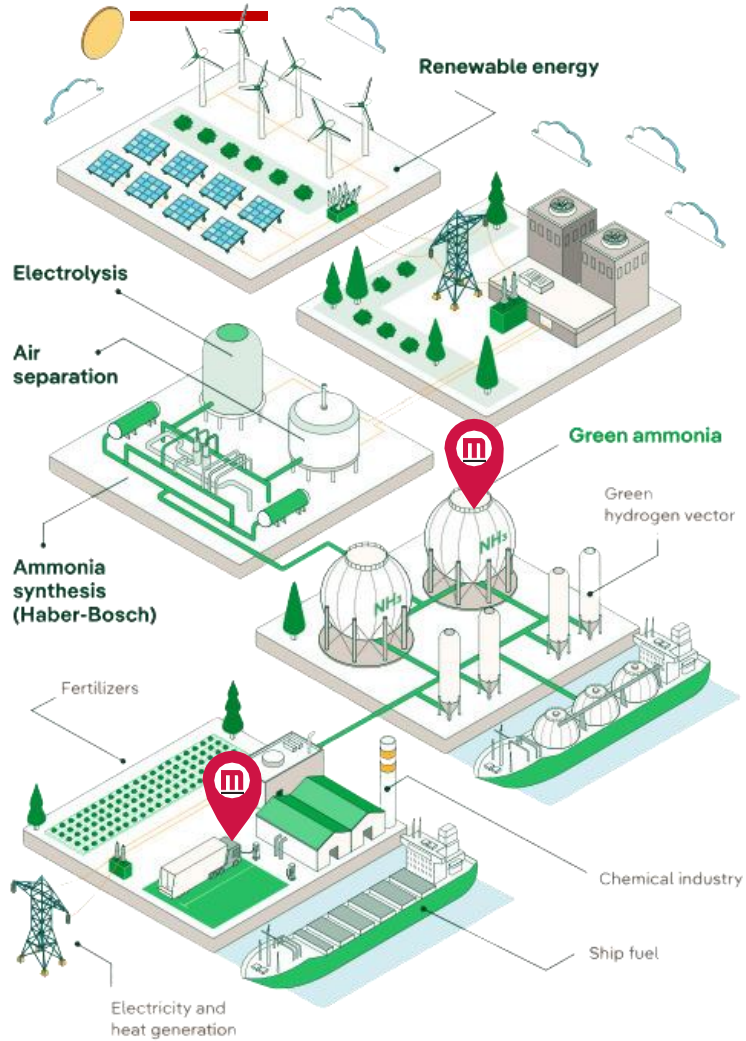


Ammonia Plant



EJEMPLOS DE CASOS - PLANTAS FERTILIZANTE

MAYEKAWA
MYCOM



- ★ Los compresores Mayekawa tienen flexibilidad operativa.
- ★ Los compresores mayekawa tienen sellos especiales para trabajar con NH₃
- ★ Adecuación del proyecto para cumplir con todos los requisitos operativos, ambientales y del sitio.



Unidad BOG Para relicuación de NH₃ en el proceso

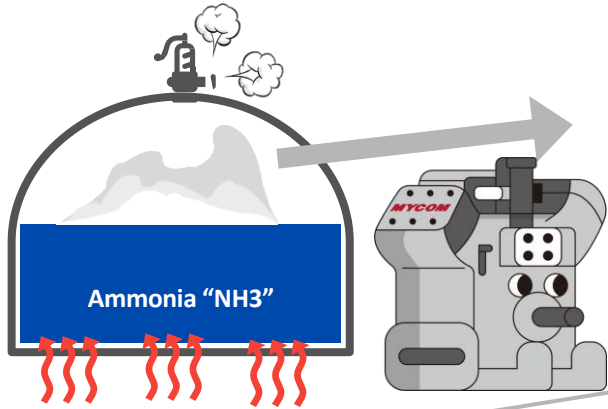


Unidad de transferencia de NH₃

Boil off Gas (BOG)

El gas de evaporación (BOG) es la pequeña cantidad de gas licuado (LG) que se evapora durante el almacenamiento, transporte, carga y descarga de LG.

MAYEKAWA
MYCOM



PARA EVITAR LA PÉRDIDA DE GAS, ES HABITUAL INSTALAR **COMPRESORES** PARA "BOIL OFF Los compresores BOG GAS

Los compresores para BOG mantienen una presión segura dentro del tanque, al extraer el gas de evaporación y enviarlo a un **condensador**, una **turbina de gas** o una **tubería**.



Ejemplo de un sistema de relicuación para almacenamiento



Ejemplo de un sistema de relicuación para almacenamiento (FGSS)



Re-liquefacción:
El gas se envía a un condensador para ser reliquefactado.



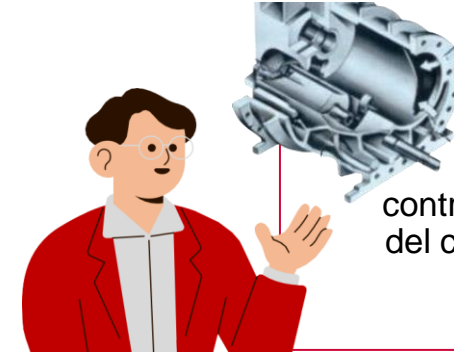
Generación de energía:
El gas se envía a una turbina de gas para ser utilizado como combustible en una planta de generación de energía.



Uso de gas de la ciudad:
El gas se envía a una tubería para ser utilizado como gas de ciudad.



Ejemplo de un sistema de uso de gas para una turbina.



Gracias a la válvula deslizante podemos controlar el funcionamiento del compresor asegurando un funcionamiento constante

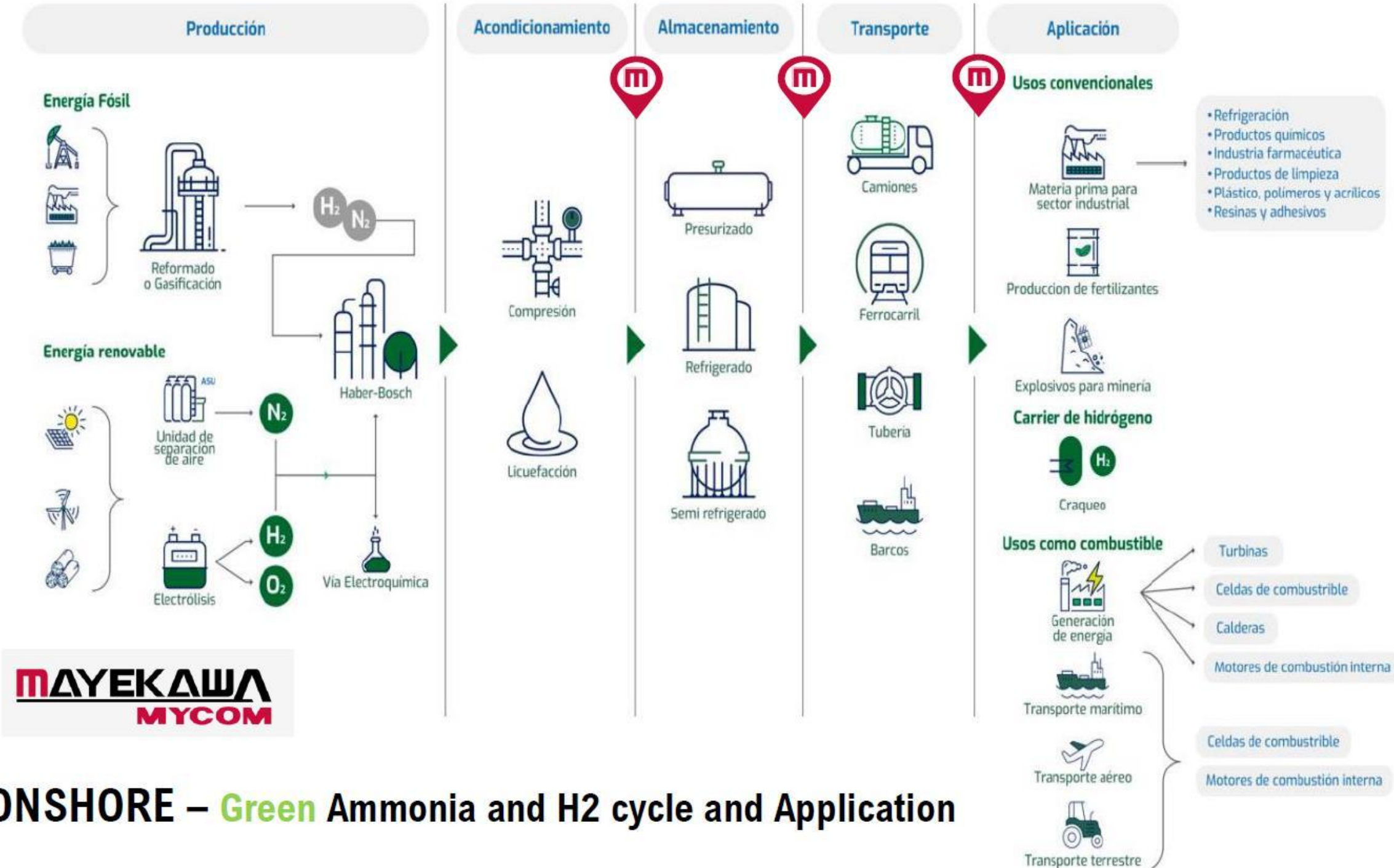
Los compresores BOG se utilizan en una variedad de aplicaciones, incluyendo:

PLANTAS DE LNG

PLANTAS DE FERTILIZANTES

BULKES DE TRANSPORTES

INSTALACIONES DE ALMACENAMIENTO DE HIDROCARBUROS




ONSHORE – Green Ammonia and H2 cycle and Application

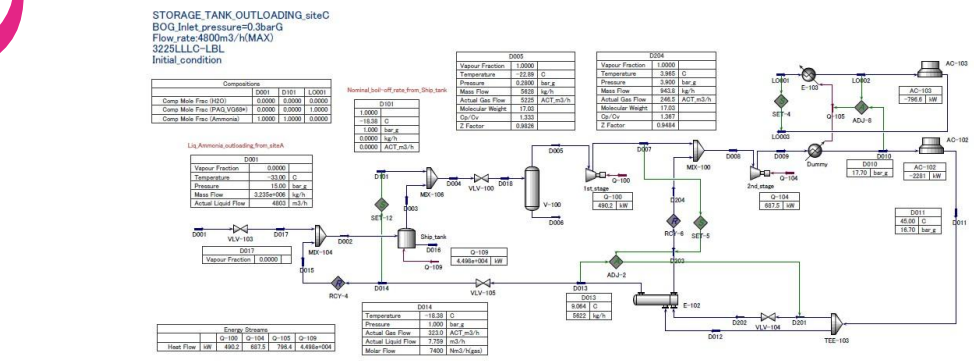
MAYEKAWA Answers

From beginning to end, your process can start with us.

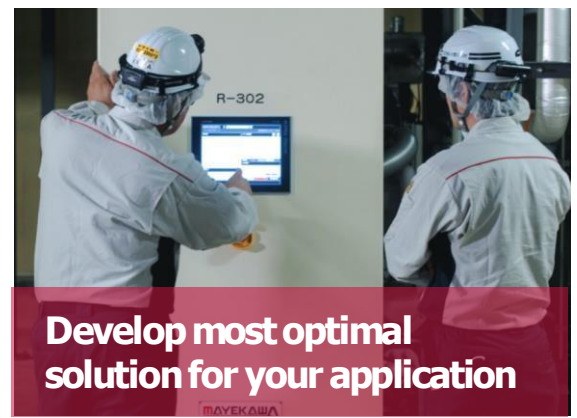
with **MAYEKAWA**

We analyze your project


We understand your application



Engineering studies for your CAPEX / OPEX Analysis



Develop most optimal solution for your application



Ammonia BOG condensing unit



Ammonia Transfer Unit




Global Maintenance & Service Team





Outstanding Global Engineering team ready for your needs



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Active member of AEA



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