





CLIMATE PROTECTION NOW!

Refueling in the **partner** network

Alternoil is a growth-oriented and innovative company specialising in the establishment of alternative fuels for heavy goods transport.

We are your partner in the changeover to clean and advanced fuels.



































- **CONSULTING**
- LNG LOGISTICS
- **LNG FILLING STATIONS**
- **♦ MONITORING 24/7**
- MAINTENANCE & SERVICING

ABOUT OUR SERVICES

We are pioneers in the field of alternative fuels

We pursue a holistic concept, which includes the planning, construction, smooth operation and maintenance of LNG stations and the supply of gas.



LNG FILLING STATIONS

For the professional construction and handling of an LNG filling station we offer the complete takeover of project management, planning, approval and commissioning.

After successful commissioning, our professional service team ensures 24-hour maintenance, monitoring and driver training.

An established NOC (Network Operation Centre) supports drivers 24/7 when refuelling with LNG, e.g. through training, first level support or the search for alternative filling stations.

RENEWABLE FUELS

In addition to establishing LNG and building a powerful and reliable LNG network, we are focusing on establishing even more climate-friendly fuels on the market in the short term.

We are thus investing in the timely availability of renewable Bio LNG and eLNG, which significantly reduce harmful emissions for heavy goods transport.

SUSTAINABLE LNG LOGISTICS

With the help of our optimised intermodal logistics, we ensure the permanent availability of cold and high-quality LNG at all our locations.

We can supply LNG to industrial applications, ships or external filling stations, starting from a weekly purchase quantity of 4 tons.

Due to our LNG depots maintained throughout Germany, we ensure fast deliveries.

LNG STATIONS IN THE ALTERNOIL SERVICE STATION NETWORK

Key



LNG stations opened



LNG stations under construction



LNG service centre



LNG buffer storage

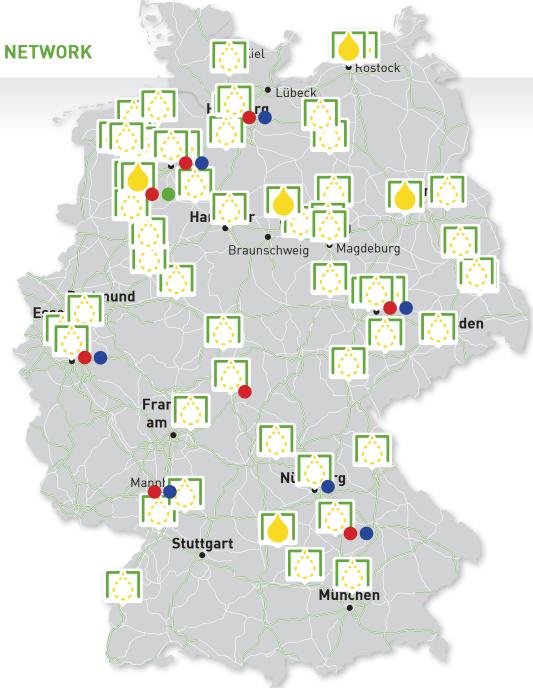


NOC (Network Operation Centre) 24/7

See also LNG stations on page 5.

The current list of stations can be found on our website: www.alternoil.de

^{*} If you have your own natural gas fleet and are interested in an XS Station, please contact us.



^{*} Depending on requirements and priorities, the construction and project periods can vary.



LNG STATIONS IN THE ALTERNOIL SERVICE STATION NETWORK

POSTCODE	CITY, ADDRESS	STATUS	OPENED
49456	Bakum, Rudolf-Diesel-Straße 1	In operation	Opened
38444	Wolfsburg, Wolfsacker 4	In operation	Opened
86720	Nördlingen, Markham Straße 2	In operation	Opened
14478	Potsdam, Verkehrshof 6	In operation	Opened
18146	Rostock, Up de Schnur 1	In operation	Opened
90451	Nürnberg Mühlheimer Straße 17	In operation	Opened
85386	Eching	Under construction	2nd quarter of 2020
03222	Lübbenau/Spreewald		2nd quarter of 2020
36093	Fulda	Under construction	3rd quarter of 2020
28197	Bremen	Under construction	3rd quarter of 2020
21129	Hamburg	Under construction	3rd quarter of 2020
50997	Köln	Under construction	3rd quarter of 2020
97469	Gochsheim	In planning	3rd quarter of 2020
02979	Elsterheide		3rd quarter of 2020
49328	Melle	BlmSchG application submitted	3rd/4th quarter of 2020
29690	Buchholz	Under construction	3rd/4th quarter of 2020
77955	Ettenheim	BlmSchG application submitted	3rd/4th quarter of 2020
91171	Greding	BlmSchG application submitted	3rd/4th quarter of 2020
33378	Rheda-Wiedenbrück		4th quarter of 2020
34593	Knüllwald		4th quarter of 2020
39179	Barleben		4th quarter of 2020
68766	Hockenheim	In planning	4th quarter of 2020
23570	Lübeck	BlmSchG application submitted	4th quarter of 2020
24539	Neumünster	BImSchG application submitted	4th quarter of 2020
71691	Freiberg	In planning	4th quarter of 2020
23858	Lübeck	BImSchG application submitted	4th quarter of 2020
42853	Remscheid	BlmSchG application submitted	4th quarter of 2020
49681	Garrel	BlmSchG application submitted	4th quarter of 2020
26135	Oldenburg	BlmSchG application submitted	4th quarter of 2020
29614	Soltau	BImSchG application submitted	4th quarter of 2020
49492	Velpe	In planning	1st quarter of 2021
47059	Duisburg	In planning	1st quarter of 2021
33106	Paderborn	In planning	1st quarter of 2021

POSTCODE	CITY, ADDRESS	STATUS	OPENED
47166	Duisburg	In planning	1st quarter of 2021
49434	Neuenkirchen-Vörden	BImSchG application submitted	1st quarter of 2021
28219	Bremen	In planning	1st quarter of 2021
19306	Neustadt-Glewe	In planning	1st quarter of 2021
39126	Magdeburg	In planning	1st quarter of 2021
41450	Dormagen	In planning	1st quarter of 2021
15537	Grünheide	In planning	1st quarter of 2021
04158	Leipzig	In planning	1st quarter of 2021
27572	Bremerhaven	In planning	1st quarter of 2021
18146	Rostock	In planning	1st quarter of 2021
03222	Lübbenau	In planning	1st quarter of 2021
92706	Luhe Wildenau	In planning	1st quarter of 2021
34593	Knüllwald	In planning	1st quarter of 2021
19357	Karstädt	In planning	1st quarter of 2021
39517	Lüderitz	In planning	1st quarter of 2021
03130	Spremberg	In planning	1st quarter of 2021
26689	Apen	In planning	1st quarter of 2021
21629	Neu Wulmstorf	In planning	1st quarter of 2021
06295	Lutherstadt Eisleben	In planning	1st quarter of 2021
26316	Varel	In planning	1st quarter of 2021
38350	Helmstedt	In planning	1st quarter of 2021
30559	Anderten	In planning	1st quarter of 2021
30582	Nienburg	In planning	1st quarter of 2021
07907	Schleiz		1st quarter of 2021
04435	Schkeuditz/Leipzig		2nd quarter of 2021
04356	Leipzig	In planning	2021
26655	Westerstede	In planning	2021
76187	Karlsruhe	In planning	2021
86156	Gersthofen	In planning	2021
08393	Meerane	In planning	2021
63526	Erlensee	In planning	2021
74889	Sinsheim	In Planung	2021
67096	Ludwigshafen		••







REFUEL®

renewable energy for vehicles

We pursue the goal of significantly minimising the environmental impact of heavy goods transport. Sustainable aspects take top priority in our supply and production chain for liquid natural gas and gas from renewable energies and biological waste processes.



LIQUID DEEP-FROZEN NATURAL GAS

This alternative and environmentally friendly fuel significantly reduces the emission of harmful emissions. In addition to the reduction of 15% CO2, emissions such as nitrogen oxides and fine dust are reduced almost completely. With our high quality natural gas you drive cleaner and more economically.

RENEWABLE NATURAL GAS FROM BIOLOG-ICAL WASTE PROCESSES

The completely renewable natural gas offers a CO2 advantage of up to 85%. To create this advanced fuel, biological waste and agricultural residues are reused and refined into biogas with the help of the latest technologies.

RENEWABLE NATURAL GAS FROM GREEN ELECTRICITY

With the up to 90% CO2-free liquid synthetic gas, your driving is even more environmentally friendly. Renewable gas is produced from surplus, renewable electricity and CO2 using PtG technology.

LNG XL station

EQUIPMENT FEATURES

- 70m³ super vacuum-insulated tank
 Optimal protection against heat input
- Vacuum-insulated pipelines
 Optimal protection against heat input
- 2 Vanzetti pumps High performance pumps for cryogenic liquids
- ♦ **Herose valves** Safety and control valves
- Nitrogen cooling BOG management
- **Siemens PLC control** For intelligent and precise control of the station

- Scada system for 24/7 monitoring of the plant
- 4 dispensers to ensure optimum availability of the station
- ITC, individual delivery temperature (inline saturation)
 - for Iveco & Scania -129°C | Volvo -158°C
- Hectronic card reader
- Monitor With self-explanatory training video for truck drivers (regardless of the language)

ALL CARD altern oil LNG

AREAS OF APPLICATION

Our XL-format LNG filling stations are particularly suitable for highly frequented locations and traffic junctions.

With up to 4 dispensers and on 5 tank lanes, a fast fuelling process is possible without long waiting times.

The installation of 2 cryogenic pump systems permanently guarantees the reliability of the supply.

- HIGH-FREQUENCY LOCATIONS
- REDUNDANT SYSTEM
- QUICK FUELLING

Green Energy station

EQUIPMENT FEATURES

- 30m³ super vacuum-insulated tank
 Optimal protection against heat input
- Vacuum-insulated pipelines
 Optimal protection against heat input
- Cryostar pump High-performance pump for cryogenic liquids
- ♦ **Herose valves** Safety and control valves
- ♦ Nitrogen cooling BOG management
- Siemens PLC control For intelligent and precise control of the station
- Green Scada System for 24/7 monitoring of the plant

- 2 dispensers to ensure the availability of the station if a component develops a fault
- ◆ 2 Emerson LNG flowmeters per dispenser – For measuring the flow rate
- ITC, individual delivery temperature (inline saturation)
 - for Iveco & Scania -129°C | Volvo -158°C
- Hectronic card reader
- Monitor With self-explanatory training video for truck drivers (regardless of the language)



FILLING STATION/COMPANY PREMISES

Due to its compact design, our Green Energy station is ideal for supplying your filling station/fleet with LNG. In combination with our scalable and intermodal logistics, we can supply you with quantities from 4 tons per week.

- **SMALL FOOTPRINT**
- QUICK INSTALLATION
- MODULAR CONSTRUCTION
- FILLING STATION/COMPANY PREMISES

FLEXIBLE USE

Due to its compact and modular design, this station can be used flexibly and is ideal for locations with limited space.

We are therefore in a position to enable rapid installation and commissioning within a very short time.





LNG XL station



LNG XS station



CNG station



LNG container



LNG micro-fueller



LNG regasification



REFERENCES & PROJECTS



Bakum A1 | LNG tank facility in XL format



Fulda A7



Hamburg Port



Bremen Logistics HUB



Cologne Logistics HUB

