



**UNDERGROUND
GAS STORAGE
AT NAFTA A.S.**





DEAR FELLOW CITIZENS,

This brochure provides you information about our company, how it operates and the significance the gas storage facilities in your area have. NAFTA is a company with extensive experience in natural gas storage and underground facility development and, at the same time, it is the leader in exploration and production of hydrocarbons in Slovakia.

For several decades, our services have been provided safely, reliably and with no technical limitations. The company's principal activity is currently the underground gas storage in geological structures that have been a natural feature of the Záhorie region for millions of years.



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..... o **Why are underground storage facilities used to store natural gas?**

These storage facilities are used in periods when natural gas consumption is not so high in order to store some of the gas delivered from outside Slovakia underground. On the other hand, when there is not enough gas in the network, e.g. in the winter period, and there is a higher demand for gas, it is then possible to withdraw gas from these underground storage facilities.

The role NAFTA plays in the gas chain is to ensure and provide our customers

with storage capacity, mainly suppliers delivering gas to end users such as households, industry, gas-fired power plants and transit.

NAFTA's underground storage facilities are a critical part in the security of gas supplies in both Slovakia and Central Europe, while acting as a stable pillar of energy security. They have been doing this safely, reliably and with no technical limitations for a long time.

..... o **How were underground gas storage facilities formed?**

Underground gas storage is a technology that has been used around the world for more than a century. The underground storage facilities were created by converting depleted natural gas and crude oil fields. In the previous century, hydrocarbon

(oil and gas) production took place at these fields. Geological and technological knowledge obtained from past production showed their suitability for underground storage needs. This sector has had a 45-year history in Slovakia.

..... o **Where are these underground storage facilities located?**

NAFTA's underground storage facilities are situated in the cadastral territories of Plavecký Štvrtok, Láb, Jakubov and Gajary,

and these include several of the original gas and oil/gas deposits.



» **Underground storage facilities are used to cover higher demand for gas, e.g. in the winter period.**

o **Which substances are found in NAFTA's operations?**

The main substance located in the underground storage facilities is natural gas, which has been used in Slovakia since the 1950s. Slovakia has an extensive distribution network that is among the most gasified countries in Europe, and so natural gas has an important place in Slovakia's energy mix. Natural gas is used for cooking and comfortable heating that is economically efficient. It is also an innovative fuel in transport and in the chemical industry, as an example.

When gas is burned, it neither creates harmful fumes, nor mechanical pollutants. This is why natural gas is considered a clean fossil fuel that is environmentally friendly.

Many of the operating underground gas storage facilities also use small quantities of auxiliary liquid media such as methyl alcohol, triethylene and diethylene glycol, gas condensate, mine drainage water, diesel fuel and lubricating oils.

**45
YEARS**

**OF UNDERGROUND
GAS STORAGE
IN SLOVAKIA**





WHAT TO DO IN CASE OF UNUSUAL SITUATION

Because of the presence of natural gas, NAFTA's corporate operations are subject to provisions of Act 128/2015 Coll. on prevention of serious industrial accidents. In all of its activities, NAFTA strongly stresses operational safety and environmental protection in the communities where it operates. Underground storage facility operation is a highly specialized activity that requires an experienced team of professionals, which NAFTA has, and the company is also a subject to periodic inspections by competent authorities and institutions.

Mainly due to ongoing technological modernization, high safety standards and the enormous attention NAFTA pays to prevention, the probability of unusual situations at our facilities is currently very low. In compliance with the law, information is spelled out here about corporate procedures and how the public should respond to a possible unusual situation at NAFTA facilities (such as a gas leak, fire or pressure effect).



Procedures when an unusual situation happens

NAFTA's technical facilities are equipped with multi-level monitoring and safety systems to guarantee safe and reliable operation. These facilities are operated by highly qualified staff that receive regular training and are examined in line with legislative requirements, internal procedures and the latest trends. If an unusual situation was to happen at any of our facilities, NAFTA has developed procedures to handle it and periodically exercises them.

Emergency shutdown systems at our operations allow the flow of natural gas to be stopped in a very short time, which significantly streamlines putting a solution in place in such situations. In addition, NAFTA has its own special rescue unit on hand in the event of an incident. The Mine Rescue Service is part of the Slovak Republic's integrative emergency services, playing a role at two levels:

- » **Plant Mine Rescue Station** staffed by operations personnel
- » **Central Mine Rescue Station**, composed of professional mine rescuers

Mine rescue station members regularly engage in exercises covering different types of emergencies together with other rescue units. The mine rescue stations also have resources available such as custom emergency vehicles, pumps for long-distance transport of water and special equipment. If an unusual situation does happen at any NAFTA facility, other integrated emergency service units can be called to assist.



Instructions for the public

Sirens alert the public to any unusual situation at NAFTA facilities potentially endangering the health and life of surrounding residents, the environment or property.

Warning signs may also be flames, smoke or the audible sound of leaking gas. Follow the steps below if any of them appear:



General principles to follow when an unusual situation happens at NAFTA facilities

When an unusual situation is observed at NAFTA facilities, please follow these instructions:

1. Stay calm and do not panic. Keeping your composure raises the probability of successfully bringing an emergency under control.
2. If you are outdoors, move away from the incident perpendicular to the direction of the wind (if possible).
3. If you are indoors, remain inside, seal the windows and turn off air conditioners.
4. Report the incident by calling NAFTA's Emergency Green Line at +421(0)800 123 088.
5. Inform other people in your area, if possible.
6. Wait for instructions broadcast either over municipal loudspeakers or on public media.
7. Minimize your calls to rescue units (emergency medical service, firefighters, police) to essential communication. Too many telephone calls will tie up the network.



Important telephone numbers

112 Emergency Calls
150 Fire and Rescue

155 Emergency Medical Service
158 Police

+421 910 667 650 District Authority – Crisis Management Department



Other information

Information provided in compliance with Act 128/2015 Coll.

NAFTA has printed this brochure because the company is subject to provisions of Act 128/2015 Coll. In accordance therewith, it has fulfilled all legislative obligations and submitted a *Notice of an Undertaking Included in Category B* and a *Safety Report* to the Bratislava District Authority.

Date of last review: 31. 10. 2017

More information can be found at www.enviroportal.sk

Information from the Population Protection Plan

Emergency plans have been drafted as part of preventing an on-site major industrial accident and are to be used as the base for preparing population protection plans. These emergency plans are provided pursuant to legislative requirements issued by the Department of Crisis Management, Malacky District Authority.

If you have any observations, comments initiatives or suggestions related to our business, please contact a corporate external communications representative.

CONTACT

Business name: NAFTA a.s.

Registered office: Votrubova 1, 821 09 Bratislava

Location of operations and centers: Cadastral territories of Plavecký Štvrtok, Láb, Jakubov and Gajary

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www.nafta.sk