



# Emergency preparedness

Énergir's liquefaction, storage  
and regasification plant (LSRP)



# Énergir's LSR plant



Énergir's LSR plant liquefies, stores and regasifies natural gas. This facility allows Énergir to liquefy and store natural gas during warmer periods of the year so it can meet the increased demand in Quebec during the colder winter months.

Liquefied natural gas (LNG) is also used as an energy source by industries located far from the gas distribution system. In addition, it is used as a fuel in road and marine transportation. In both cases, using natural gas helps reduce the consumption of petroleum products, significantly lowering greenhouse gas emissions and air pollutants while reducing energy costs for customers. LNG tanker trucks travel between the LSR plant and various delivery locations in Quebec, Ontario and the United States.

## Liquefied natural gas (LNG)

When cooled to  $-160^{\circ}\text{C}$ , natural gas changes from a gaseous to a liquid state. Once liquefied, LNG occupies 600 times less volume than in its gaseous form, making it much easier to transport and store. Like natural gas, it is composed of more than 95% methane ( $\text{CH}_4$ ) and also contains small amounts of ethane, nitrogen and carbon dioxide.

Other hazardous materials regulated under the Environmental Emergency Regulations are also present at the LSR plant. Ethylene, pentane, isobutane and propane are used in the natural gas cooling process.



## Commitment to the environment, health and safety, and prevention

Protecting health, safety and well-being in the workplace is central to Énergir's corporate strategy. This commitment reflects its vision for sustainable development and benefits employees, customers, the communities it serves, contractors, suppliers and the general public.

As part of its LSR plant operations, Énergir has implemented several initiatives to raise awareness of health, safety and risk prevention among employees and the surrounding community:

- Health and safety capsules at the start of meetings
- Risk communication program
- Emergency simulations
- Collaboration with industrial safety organizations in East Montreal, such as AIEM and CMMI-Est
- Automated call systems within the potential impact zone in the event of an incident





## Measures in place for managing major industrial accident risks

The safety of employees and the public is a top priority at Énergir. Over the years, significant investments and efforts have been made to maintain and improve the safety of facilities and processes.

### To prevent accidents, the LSR plant has:

- A risk assessment process to identify, manage and prevent risks
- A 24/7 control centre staffed by qualified and experienced operators
- Facilities that fully comply with applicable Canadian safety codes
- Weekly inspection programs
- A rigorous annual preventive maintenance program
- Preventive testing on safety equipment associated with plant processes
- A secured perimeter with fencing and physical barriers integrated into the site's landscaping
- Tank reliability analyses and crack detection using ultrasonic testing
- An incident investigation process to prevent recurrence
- Regular audits to ensure risk management systems are in place and properly applied

### To respond effectively in an emergency, the plant is equipped with:

- Leak, over-pressure and spill detection systems
- Retention basins around the tanks capable of containing LNG or ethylene spills
- A seismograph and a permanent link with Énergir's network control centre
- Foam generators
- Fire alarm systems
- An emergency response plan developed with relevant authorities
- On-site staff at all times
- A fire suppression network with pipes and hydrants; tanks are equipped with deluge systems
- Mobile and fixed firefighting equipment
- A biannual testing program for fire protection equipment
- A joint emergency response plan with community emergency services in case of an incident during LNG transport

**In addition, employees (operators, mechanics and supervisors) receive emergency response training and participate in exercises and drills involving major accident scenarios.**





## What you need to know

In the unlikely event of an incident, you may hear loud noise or notice odours, smoke, flames or a possible explosion.

Potential effects could include material damage. Health impacts may also occur during a major incident, such as burns caused by prolonged exposure to thermal radiation from a large fire.



# Accident procedure

## In general, in the event of a major industrial accident:

- Emergency responders will **set up safety perimeters** and take necessary steps to **inform residents** (door-to-door notifications, texts, phone calls, TV and radio announcements).
- Emergency responders will activate their **response plans**.

**Important:** In the event of a major industrial accident, you may receive an automated message through our emergency telephone system informing you of the situation and instructing you on how to stay safe.



## What should you do in the event of an accident?

- **Follow instructions** issued by the authorities
- **Stay alert** for updates and developments
- **Do not smoke**, and avoid any action that could create a spark or flame
- **Assess** whether you and your loved ones are safe
- **Stay together** to help emergency responders
- **Close** doors, windows and the gas supply
- **Evacuate** the area



## Avoid the following, unless authorities instruct otherwise:

- **Approaching** the accident site
- **Picking up your children** if they are already being cared for at school or another institution; proper instructions will be provided on how to reconnect with them
- **Using the phone** except in an emergency, to keep lines free for emergency services. In an emergency only, or to report suspicious activity, **call 9-1-1**



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## Learn more

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For more information about industrial facilities in East  
Montreal and associated risks:

- Association industrielle de l'est de Montréal (AIEM)
- Comité mixte municipal-industriel de l'Est de Montréal (CMMI-Est)