

Summary of the Technical Regulation

1. Name of the technical regulation

Ministerial Order to Provide Technical Standards for CO₂ Storage Facilities.

2. Detailed objective and rationale

The Act on Carbon Dioxide Storage Business (Act No. 38 of 2024) Article 67 (1) stipulates that storage business operators maintain CO₂ storage facilities to ensure that they conform to the technical standards established by Order of the Ministry of Economy, Trade and Industry.

Additionally, Article 86 (1) of the same Act stipulates that CO₂ pipeline transport operators maintain CO₂ pipeline transport facilities in accordance with the technical standards.

We will enact a Ministerial Order to Provide Technical Standards for CO₂ Storage Facilities based on the Act on Carbon Dioxide Storage Business to maintain public safety and prevent the occurrence of accidents, with reference to the standards mandated by the Mine Safety Act, the Gas Business Act, and the High-Pressure Gas Safety Act.

3. Mandatory product characteristics, mandatory production methods, etc.

(1) The technical standards for wells

- Appropriate measures are to be taken to prevent corrosion.
- An appropriate distance between the wellhead and residential areas, schools, hospitals, and other facilities is to be maintained to prevent damage in the event of gas eruption from the well, etc.
- Appropriate measures are to be taken to prevent blowouts.

(2) The technical standards for pumping equipment

- The materials are chemically and physically compatible with the characteristics of the gas.
- The structure can withstand loads during service and normal pressure, etc., according to the properties of the gas.
- Appropriate measures are to be taken to prevent operational errors.
- Appropriate measures are to be taken to ensure that the equipment remains functional in the event of power outages or other issues.
- An appropriate safety distance is to be maintained at the installation site.
- Appropriate safety devices are installed to relieve pressure.
- Appropriate equipment that can measure the state of use is installed.
- Appropriate devices are installed to detect conditions that may lead to damage, and to issue alerts.

(3) The technical standards for pipelines

- The materials are chemically and physically compatible with the characteristics of CO₂ flow in the pipeline.

- The structure can withstand loads during operation and normal pressures.
- Appropriate measures are to be taken to prevent damage from impacts, such as collision with vehicles.
- Appropriate equipment that can measure the state of use is installed.
- Appropriate devices are installed to detect conditions that may lead to damage, and to issue alerts.
- Appropriate measures are to be taken to remove moisture in the transportation of CO₂.
- Appropriate measures are to be taken to prevent corrosion.
- Appropriate measures are to be taken to prevent the concentration of CO₂ on the ground from increasing due to leakage or emission of CO₂.

4. Proposed date of entry into force

May 22, 2026