

DIN EN 1918-2:2016-11 (E)

Gas infrastructure - Underground gas storage - Part 2: Functional recommendations for storage in oil and gas fields

| Contents | | Page |
|---|---|-------------|
| European foreword | | 3 |
| 1 | Scope | 4 |
| 2 | Normative references | 4 |
| 3 | Terms and definitions | 5 |
| 3.1 | Terms and definitions common to parts 1 to 4 of EN 1918 | 5 |
| 3.2 | Terms and definitions not common to parts 1 to 4 of EN 1918 | 9 |
| 4 | Requirements for underground gas storage | 10 |
| 4.1 | General | 10 |
| 4.2 | Underground gas storage | 11 |
| 4.3 | Long-term containment of stored gas | 14 |
| 4.4 | Environmental conservation | 15 |
| 4.5 | Safety | 15 |
| 4.6 | Monitoring | 15 |
| 5 | Design | 15 |
| 5.1 | Design principles | 15 |
| 5.2 | Field description and storage behaviour | 16 |
| 5.3 | Determination of the maximum operating pressure | 17 |
| 5.4 | Wells | 18 |
| 5.5 | Monitoring systems | 22 |
| 5.6 | Neighbouring subsurface activities | 23 |
| 6 | Construction | 23 |
| 6.1 | General | 23 |
| 6.2 | Wells | 23 |
| 6.3 | Completions | 23 |
| 6.4 | Wellheads | 24 |
| 7 | Testing and commissioning | 24 |
| 8 | Operation, monitoring and maintenance | 24 |
| 8.1 | Operating principles | 24 |
| 8.2 | Monitoring | 24 |
| 8.3 | Injection and withdrawal operations | 25 |
| 8.4 | Maintenance of wells | 25 |
| 8.5 | HSE | 25 |
| 9 | Abandonment | 26 |
| 9.1 | General | 26 |
| 9.2 | Withdrawal of the gas | 27 |
| 9.3 | Plugging and abandonment of wells | 27 |
| 9.4 | Surface facilities | 27 |
| 9.5 | Monitoring | 27 |
| Annex A (informative) Non-exhaustive list of relevant standards | | 28 |