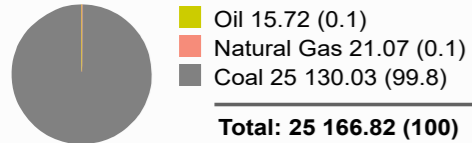


# Germany • Fossil fuels

## Conventional proved reserves by fuels, Million tonnes of oil equivalent (%):



Source: Based on the U.S. Energy Information Administration data (Sep 2023).

## Key coal mines fields by production capacity in 2015, mln t/y:

- 1 Ruhr (Prosper-Haniel), 2.5\*
- 2 Ibbenbüren, 1.0\*
- 3 Rhineland (Hambach, Garzweiler, Inden), 95.2
- 4 Lusatian, 62.5
- 5 Central German (Profen, Schleenhain), 18.9

\* hard coal

## Oil refinery, bpd:

- 1 Rheinland Godorf & Wesseling, Shell, 340 000
- 2 Karlsruhe, MIRO, 320 000
- 3 Gelsenkirchen, Ruhroil, 254 000
- 4 Schwedt, PCK Raffinerie, 240 000
- 5 Mitteldeutschland Spergau, Total, 230 000
- 6 Vohburg, Bayernoil, 120 000
- 7 Harburg, Nynas, 110 000
- 8 Holborn, Tamoil, 105 000
- 9 Heide, Klesch, 90 000
- 10 Emsland Lingen, BP, 90 000
- 11 Neustadt, Bayernoil, 86 000
- 12 Burghausen, OMV Group, 70 000

## Key natural gas extraction fields:

- 1 Altmark
- 2 Hemsbünde / Böttersen / Völkersen

## Key natural gas storages:

- 1 Etzel
- 2 Epe
- 3 Hähnlein
- 4 Eschenfelden
- 5 Bierwang
- 6 Burggraf-Bernsdorf
- 7 Bernburg
- 8 Rüdersdorf
- 9 Peckensen
- 10 Kraak
- 11 Kiel-Rönne
- 12 Nüttermoor

## Key oil extraction fields:

- 1 Mittelplate (offshore)
- 2 Emlichheim
- 3 Großaitingen / Aitingen
- 4 Landau

## Key oil storages:

- |                        |                 |
|------------------------|-----------------|
| 1 Rostock              | 6 Karlsruhe     |
| 2 Hamburg, Vopak Dupeg | 7 Rheinau-Honau |
| 3 Brunsbüttel          | 8 Gera          |
| 4 Heide                | 9 Bendorf       |
| 5 Berlin               | 10 Hamm         |

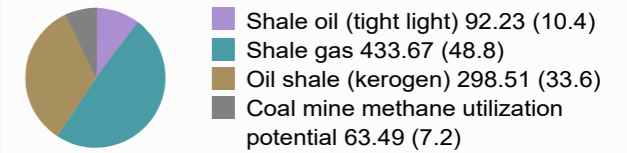
## Key oil terminals:

- 1 Wilhelmshaven
- 2 Rostock
- 3 Brunsbüttel
- 4 Hamburg

## Major natural gas hydrate occurrences:

- 1 Mittelplate oil field

## Unconventional reserves by fuels, Million tonnes of oil equivalent (%):



Sources: Based on the U.S. EIA 2015 data (Sep 2023); U.S. Geological Survey SIR 2005-5294 (Sep 2023); U.S. Environmental Protection Agency 2017 (Sep 2023) et al.

## Methanol-to-gasoline (MTG) plant, bpd:

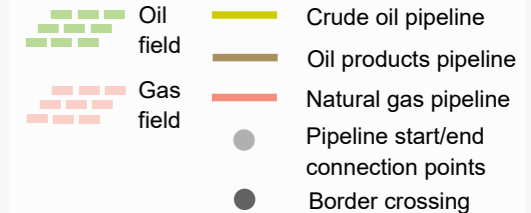
- 1 Wesseling Demo, 100

## Largest shale oil (tight light) fields (Lower Saxony Basin)

## Largest shale gas fields (Lower Saxony Basin)

## Dimethyl Ether (DME) plant, t/y:

- 1 Karlsruhe, KIT Demo, 608



As of 2021 Germany had 115.2 mln barrels of proved oil reserves, extracted about 201.0 thousand barrels of crude oil per day, 0.83 Tcf of proved natural gas, extracted about 178.9 Bcf of natural gas and 35 900.0 million tonnes of coal, extracted about 118.4 mln short tons. Germany's conventional oil infrastructure include 13 operating oil refineries with a total crude oil processing capacity of 2.19 million b/d; some oil terminals and oil storages. There are 2826 km of crude oil and 4479 km of refined products pipelines. Conventional natural gas – include more than 40 underground natural gas storages; some gas processing plants and more than 30 gas compressor stations; 26 985 km of natural gas pipeline.

Sources: U.S. Energy Information Administration (Dec 2021); BP Statistical Review of World Energy 2021; Central Intelligence Agency; OPEC; A Barrel Full; Wikipedia.