



19 Useful postal addresses



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OTHER LICENSEES**Aker Energy AS**

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Concepts and conversions

Resources

Petroleum resources are a collective term which embraces technically recoverable volumes of oil, gas, natural gas liquids (NGL) and condensate. They are classified by the maturity of the industrial project required to recover them. The main classes are reserves, contingent resources and undiscovered resources. By definition, a discovery is made when an exploration well identifies recoverable petroleum. A discovery will be re-defined as a field when its plan for development and operation (PDO) has been approved by the authorities. Undiscovered resources are subdivided into mapped resources (prospects) and unmapped resources (exploration models).

Contingent resources are those discoveries which have yet to be approved for production. They embrace discoveries where a plan for development and operation is expected within five years, where production is probably but remains to be clarified, new discoveries awaiting evaluation and petroleum volumes from possible future measures to improve oil recovery. In addition come discoveries which are very unlikely to be produced.

Reserves

Reserves are defined in accordance with the NPD's classification system, and include remaining recoverable volumes of petroleum as specified in approved plans for fields in production, fields approved for development and fields which the licensees have decided to develop. Reserves may be regarded as the economically recoverable part of the petroleum in a field. Estimated resources and reserves change from year to year as a result of new discoveries, production, and adjustments to estimates for fields and discoveries based on new studies or drilling targets or changes in production technology.

Volumes are given in standard cubic metres (scm) for oil, condensate and gas, and in tonnes for NGL. A measure of total resources can be obtained by summing the energy content in the various types of petroleum. This sum is given in scm of oil equivalent (scm oe).

1 scm oil	=	1.0 scm oe
1 scm condensate	=	1.0 scm oe
1 000 scm gas	=	1.0 scm oe
1 tonne NGL	=	1.9 scm oe

Gas	1 cubic foot	1 000.00 btu
	1 cubic metre	9 000.00 kcal
	1 cubic metre	35.30 cubic feet

Crude oil	1 scm	6.29 barrels
	1 scm	0.84 toe
	1 tonne	7.49 barrels
	1 barrel	159.00 litres
	1 barrel/day	48.80 tonnes/year
	1 barrel/day	58.00 scm/year

	MJ	kWh	TKE	TOE	Scm of natural gas	Barrels of oil
1 MJ, megajoule	1	0.278	0.0000341	0.0000236	0.0281	0.000176
1 kWh, kilowatt hour	3.60	1	0.000123	0.000085	0.0927	0.000635
1 TCE, tonne coal equivalent	29 300	8 140	1	0.69	825	5.18
1 TOE, tonne oil equivalent	42 300	11 788	1.44	1	1 190	7.49
1 scm natural gas	35.54	9.87	0.00121	0.00084	1	0.00629
1 barrel of crude oil (159 litres)	5 650	1 569	0.193	0.134	159	1