

SCIENTIFIC INQUIRY INTO
HYDRAULIC FRACTURING
IN THE NORTHERN TERRITORY



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Glossary

Term	Definition
AAPA	Aboriginal Areas Protection Authority
ABA	Area-based analysis
ARC	Administrative Review Council
ACOLA	Australian Council of Learned Academies
ACOLA Report	<i>Engineering Energy: Unconventional Gas Production</i> , report for the Australian Council of Learned Academies, May 2013
AECOM	AECOM Australia Pty Ltd
AER	Alberta Energy Regulator
AHD	Australian Height Datum
ALARP	As low as reasonably practicable
ALEC	Arid Lands Environment Centre
ANAO	Australian National Audit Office
APPEA	Australian Petroleum Production and Exploration Association
API	American Petroleum Institute
BC	British Columbia, Canada
BCOGC	BC Oil and Gas Commission
BOM	Bureau of Meteorology
BTEX	Benzene, toluene, ethylbenzene, xylenes
CBI	Confidential business information
CBL	Cement bond log
CCF	Community Capital Framework
CCGT	Combined-cycle gas turbine (power plant)
CCSG	University of Queensland Centre for Coal Seam Gas
CEM	Conceptual Exposure Model
CET	Clean energy target
CGE	Computable general equilibrium
CH ₄	Methane
CI	Confidence interval
CLA	Cambrian Limestone Aquifer
CLC	Central Land Council
CLP	Country Liberal Party
CMA	Cumulative management area
CNS	Central nervous system
CO ₂	Carbon dioxide
COAG Energy Council	Council of Australian Governments Energy Council
CoC	Chemicals of concern
COP21	Conference of the Parties, United Nations Framework Convention on Climate Change, 21st session
CRS	Chronic rhinosinusitis
CSG	Coal seam gas
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CSM	Conceptual site model
CSRM	Centre for Social Responsibility in Mining (University of Queensland)
DDPHU	Darling Downs Public Health Unit

Term	Definition
Deloitte	Deloitte Access Economics
DENR	Department of Environment and Natural Resources (NT)
DIDO	Drive-in drive-out worker
DIPL	Department of Infrastructure, Planning and Logistics (NT)
DLs	Detection limits
DPIR	Department of Primary Industry and Resources (NT)
EAA	<i>Environmental Assessment Act 1982</i> (NT)
EDO	Environmental Defenders Office NT
EIS	Environmental impact statement
EMP	Environment management plan
EPA	Northern Territory Environment Protection Authority
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth)
ESD	Ecologically sustainable development
EUR	Estimated ultimate recoveries
Exploration permit/ EP	Petroleum exploration permit under the Petroleum Act 1984 (NT)
FIFO	Fly-in fly-out worker
FPIC	Free, prior, and informed consent
Fracking	See 'hydraulic fracturing'
Framework	NT Water Allocation Planning Framework
FTE	Full time equivalent
Fugitive emissions	Intentional and unintentional release of greenhouse gases during the production, processing, transport, storage, transmission and distribution of fossil fuels
GAB	Great Artesian Basin
GDE	Groundwater dependent ecosystems
GDP	Gross domestic product
GHG	Greenhouse gases
GISERA	Gas Industry Social and Environmental Research Alliance
GLNG	Gladstone Liquefied Natural Gas
Government	Northern Territory Government
GSP	Gross State product
GST	Goods and services tax
GWP	Global warming potential
H ₂ S	Hydrogen sulfide
HDPE	High-density polyethylene
HELE	High efficiency, low emissions power generation
HFF	Hydraulic fracturing fluid
HHRA	Human health risk assessment
HI	Hazard index
HIA	Health impact assessment
Hydraulic fracturing	Fracturing of rock with a liquid under high pressure to create artificial openings and cracks in the rock to increase the rock's permeability. See also 'fracking'
IBRA	International Biogeographic Regionalisation for Australia
IEA	International Energy Agency
IMAP	Inventory Multi-tiered Assessment and Prioritisation

Term	Definition
Indigenous Land	Land under the Land Rights Act and the Native Title Act
Inquiry	Scientific Inquiry into Hydraulic Fracturing of Onshore Unconventional Reservoirs and Associated Activities in the Northern Territory
IPA	Indigenous protected areas
IPCC	Intergovernmental Panel on Climate Change
ISO	International Standards Organisation
Issues Paper	<i>Background and Issues Paper</i> , published February 2017
KTP	Key threatening process
Land Access Guidelines	Stakeholder Engagement Guidelines Land Access
Land Rights Act	<i>Aboriginal Land Rights (Northern Territory) Act 1976</i> (Cth)
Lazarus Report	<i>Senate Select Committee on Unconventional Gas Mining Interim Report</i> , Chaired by Senator Glenn Lazarus in 2016
LCOE	Levelised cost of electricity
LNG	Liquefied natural gas
Lock the Gate	Lock the Gate Alliance
MAR	Managed aquifer recharge
MEI	Melbourne Energy Institute
Minister for Environment	Northern Territory Minister for Environment and Natural Resources
Minister for Resources	Northern Territory Minister for Primary Industry and Resources
MNES	Matters of national environmental significance
Montara Inquiry	Montara Commission of Inquiry
MSDS	Material Safety Data Sheets
NAIF	Northern Australia Infrastructure Facility
NARMCO	North Australian Rural Management Consultants Pty Ltd
Native title land	Land subject to a native title application or determination under the <i>Native Title Act 1993</i> (Cth)
NCRA	National Chemicals Risk Assessment
NEPM	National Environment Protection Measure
NETL	US National Energy Technology Laboratory
NGER	National Greenhouse and Energy Reporting
NGGI	National Greenhouse Gas Inventory
NGI	Northern gas pipeline
NICNAS	National Industrial Chemicals Notification and Assessment Scheme
NIR	National Inventory Report
NLC	Northern Land Council
NNTT	National Native Title Tribunal
N ₂ O	Nitrous oxide
NOPSEMA	National Offshore Petroleum Safety and Environmental Management Authority
NORM	Naturally occurring radioactive materials
NOx	Oxides of nitrogen
NSPS	US EPA New Source Performance Standards
NSW	New South Wales
NTA	<i>Native Title Act 1993</i> (Cth)
NTCA	Northern Territory Cattlemen's Association
NTCAT	Northern Territory Civil and Administrative Tribunal
OCGT	Open cycle gas turbine
OGI	Optical gas imaging
OGIA	Office of Groundwater Impact Assessment

Term	Definition
OR	Odds ratio (a measure of association between exposure and outcome)
Origin	Origin Energy Limited
Panel	The scientific panel appointed by the Chief Minister to conduct the Inquiry
Pangaea	Pangaea Resources Pty Ltd
Paris Agreement	Decision of the Conference of the Parties, United Nations Framework Convention on Climate Change, Adoption of the Paris Agreement, 21st session, UN Doc FCCC/CP/2015/L.9/Rev.1
Pastoral Land Act	<i>Pastoral Land Act 1992</i> (NT)
Pastoral Lease	Pastoral leases granted under the <i>Pastoral Land Act 1992</i> (NT)
Pastoral lessee/ pastoralist	Holder of a pastoral lease under the <i>Pastoral Land Act 1992</i> (NT)
Petroleum Act	<i>Petroleum Act 1984</i> (NT)
Petroleum Environment Regulations	<i>Petroleum (Environment) Regulations 2016</i> (NT)
Petroleum permittee	Holder of a petroleum exploration permit under the <i>Petroleum Act 1984</i> (NT)
PM	Particulate matter
REC	Reduced emission completions
RMPs	Regional Management Plans
SA	South Australia
Santos	Santos Ltd
Schedule	<i>Schedule of Onshore Petroleum Exploration and Production Requirements 2016</i> (NT)
SIMP	Social impact management plan
SIA	Social impact assessment
SLO	Social licence to operate
SREBA	Strategic regional environmental and baseline assessment
TAMEST	The Academy of Medicine, Engineering and Science of Texas
TAP	Threat abatement plan
TDS	Total dissolved salts
TMP	Traffic management plans
TWP	Total warming potential
UGE	Unconventional gas extraction
UK	United Kingdom
UNFCCC	United Nations Framework Convention on Climate Change
UQ	University of Queensland
US	United States of America or United States
US EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
USGR	Unconventional Shale Gas Regulator
VOCs	Volatile organic compounds
WA	Western Australia
WAP	Water Allocation plan
Water Act	<i>Water Act 1992</i> (NT)
Waste Management Act	<i>Waste Management and Pollution Control Act 1998</i> (NT)
WCD	Water Control District
Weeds Act	<i>Weeds Management Act 2001</i> (NT)
WIMS	Well integrity management system

Units of measurement

Unit	Definition
Bcm	Billion cubic metres
CO ₂ e	Carbon dioxide equivalent. A metric for the measurement of the global warming potential of a substance
EC	Electrical conductivity
EUR	Estimated Ultimate Recoveries
GL	Gigalitre
GL/y	Gigalitres per year
GWP	Global Warming Potential
ha	Hectare (10,000 m ²)
km	Kilometre
km ²	Kilometre squared
L	Litre
L/s	Litres per second
L/min	Litres per minute
m ³	Metres cubed
mg/L	Miligrams per litre
MJ	Megajoule (1 joule x 10 ⁶)
ML	Megalitre (1 litre x 10 ⁶)
ML/y	Megalitres per year
mm	Millimetre
mmcf/d	Million cubic feet per day
mm/y	Millimetres per year
mS/cm	Millisiemens per centimetre (= 1000 uS/cm)
Mt CO ₂ e	Million tonnes of carbon dioxide equivalent
M _w	Moment magnitude. The moment magnitude scale is based on the total moment release of the earthquake. Moment magnitude estimates are about the same as Richter magnitudes for small to large (ie <8) earthquakes.
MWh	Megawatt-hour
PJ	Petajoules
t	Tonne (1,000 kg)
Tcf	Trillion cubic feet
TDS	Total dissolved salts
TJ	Terajoule (1 joule x 10 ¹²)
TJ/d	Terajoule (1 joule x 10 ¹²) per day
TOC	Total organic content
TSS	Total suspended solids
uS/cm	Microsiemens per centimetre

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