

Appendix 21 – Fossil fuel and arms corporations and other related organisations

Table 21.1 – Fossil fuel corporations mentioned in this report

<i>Corporation</i>	<i>Key information</i>	<i>Main references</i>
AGR	Norwegian-based oil and gas consultancy (especially in software products) focused on exploration, production and enhanced oil recovery.	https://www.agr.com/
Aker BP	A world top 70 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). Norwegian-based company, involved in exploration, development and production activities.	https://www.akerbp.com/en/ FFI
Anadarko Petroleum	A world top 40 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). US-based company involved in exploration and production. In 2019, it was acquired by Occidental Permian. Subject of multiple environmental pollution cases.	https://www.oxy.com/Pages/default.aspx FFI; Wikipedia
Anglo American	A world top 25 coal corporation, in terms of reserves (CO ₂ emissions equivalent). UK/South African-based mining company, also involved in metals.	http://www.angloamerican.com/about-us/at-a-glance FFI
Anglo American Group Foundation	Charity which is funded by Anglo American. Also see Anglo American.	http://www.angloamericangroupfoundation.org/
Aramco	See Saudi Aramco	
Aspect EnterPrise Solutions	UK-based financial/ IT consultancy, which is heavily involved in fossil fuels.	http://www.aspectenterprise.com/about-us/
Badleys	UK-based company, which provides geological services to the oil and gas exploration and production industry.	http://www.badleys.co.uk/about-us.php
Bapco	Also known the Bahrain Petroleum Company, it is the state-owned oil corporation of that nation. It works in exploration, refining, storage, production, marketing, training and development, and works closely with Saudi Aramco (see Saudi Aramco).	http://www.bapco.net/en-us
BASF	A world top 40 corporation, in terms of oil and gas reserves (CO ₂ emissions equivalent). German-based company, it is the largest chemical producer in the world.	https://www.basf.com/ FFI
BG Group	BG Group was a UK-based oil and gas company. In 2016, BG Group was acquired by Shell. Also see Royal Dutch Shell.	BG Group [1]; BG Group [2]

BHP	A world top 15 corporation, in terms of coal reserves, and a world top 40 corporation, in terms of oil and gas reserves (both CO ₂ emissions equivalent). Australian/UK company, focused on mining, metals and petroleum. Until recently, known as BHP Billiton. It was joint owner of Samarco, the company at the centre of the Bento Rodrigues tailings dam disaster in Brazil in 2015.	https://www.bhp.com/our-approach/our-company/about-us FFI; Wikipedia
Blue Water Energy	UK financial services company specialising in the oil and gas industry.	https://www.bluewaterenergy.com/
BP	World's 5th largest oil and gas corporation, in terms of known reserves (CO ₂ emissions equivalent). UK-based energy company, with a strong focus on oil and gas operations. Operator of the Deepwater Horizon oil rig, which exploded in 2010 causing huge environmental impacts.	https://www.bp.com FFI; section 2.2 (of main report)
C & C Reservoirs Ltd	UK-based data analysis corporation, with a focus on oil and gas exploration and production.	http://www.ccrepositories.com/
Cairn	UK-based oil and gas exploration and production corporation.	https://www.cairnenergy.com/about-us/at-a-glance/
Centrica	A world top 100 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). UK-based energy company, and parent of British Gas and Scottish Gas. It has been a key investor in UK shale gas exploration, including hydraulic fracturing.	https://www.centrica.com/ FFI; Centrica [1]
CGG	French-based geophysical services company, primarily working for the global oil and gas industry.	https://www.cgg.com/en
Chemie Tech	UAE-based engineering services company, focused mainly on the oil and gas sector.	http://www.chemietech.com/index.php/about-chemie-tech
Chevron	World's 8th largest oil and gas corporation, in terms of known reserves (CO ₂ emissions equivalent). US-based company, involved in wide range of activities, including exploration, production and refining. Heavily involved in US shale oil and gas exploration and production. Took over Texaco in 2000.	https://www.chevron.com/operations FFI; Wikipedia
CNOOC	A world top 20 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). Chinese state-owned company, also known as Chinese National Offshore Oil Company.	https://www.cnooltd.com/ FFI
ConocoPhillips	A world top 15 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). US-based company, heavily involved in exploration and production.	http://www.conocophillips.com/about-us/ FFI

Dana Gas	UAE-based gas corporation, involved in exploration and production across the Middle East. (Not to be confused with Dana Petroleum)	http://www.danagas.com/en-us/about/overview
Dana Petroleum	UK-based oil and gas corporation, involved in exploration and production, especially in the North Sea. It is a wholly owned subsidiary of the Korea National Oil Corporation. (Not to be confused with Dana Gas)	https://www.dana-petroleum.com/
Dow	One of the world's largest chemical corporations. US-based company, heavily involved in oil and gas exploration, including high-carbon oil sands.	https://www.dow.com/en-us/oil-gas-mining/markets/mining
E.ON	Large German-based electric utility corporation. In 2016, it sold its main European fossil fuel division into a separate company called Uniper. Over 60% of its UK electricity production came from fossil fuels in early 2019. However, from July 2019 all its residential electricity supply was matched by purchases from renewable sources.	https://www.eonenergy.com/About-eon/Fuel-Mix http://electricityinfo.org/fuel-mix-of-uk-domestic-electricity-suppliers/ Wikipedia
ENI	A world top 15 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). Italian-based company, involved in almost all elements of oil and gas, including exploration, production and refining.	https://www.eni.com/en_IT/company/company-profile.page FFI
EOG Resources	A world top 25 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). US-based company, heavily involved in exploration and production.	http://www.eogresources.com/ FFI
EP Energy	A world top 80 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). US-based company, heavily involved in high-carbon unconventional oil and gas.	http://www.epenergy.com/ FFI
Equinor	A world top 20 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). Norwegian state-owned company, known as Statoil until 2018. While it has recently been investing significantly in wind power, it continues to explore for new fossil fuels resources.	https://www.equinor.com/ FFI; Wikipedia
ERCE	UK-based energy consultancy, specialising in services to the oil and gas industry. Formerly known as ERC Equipoise.	https://www.erce.energy/services
ERC Equipoise	See ERCE	
ESAI Energy	US-based consultancy, providing market intelligence services mainly to the oil and gas industry.	http://esaienergy.com/services/

ExxonMobil	World's 4th largest oil and gas corporation, in terms of known reserves (CO ₂ emissions equivalent). US-based company, and largest publicly traded oil and gas company in the world. It has a long history of questioning the science and political action on climate change. Mainly trades under the name of 'Esso' in the UK.	http://corporate.exxonmobil.com/en FFI; section 2.2 (of main report); Wikipedia
Freeport-McMoRan Copper & Gold	Large US-based mining corporation, with a focus on metals. Its fossil fuel operations led it to be ranked in the top 100 oil and gas companies in the recent past.	https://www.fcx.com/ FFI [2]
Fugro	Dutch-based geosciences corporation, which provides services to several industries. The majority of its business is with the oil and gas sector, and it assists with exploration, development, production and decommissioning.	https://www.fugro.com/your-industry/oil-gas https://www.fugro.com/about-fugro/group-overview/fugro-at-a-glance
Fujairah Oil Industry Zone	Government-sponsored free trade zone in UAE. It was established to "strengthen the role of the private sector and provide support to companies, research centres and the technological development in the field of petroleum industry"	http://fnrc.gov.ae/forum/present/2015/42.pdf
Getech	UK-based geosciences corporation, which provides data services to several industries, but mainly the oil and gas sector.	https://getech.com/what-we-do
Gibson Energy	Canadian-based "crude oil infrastructure company" whose activities include transportation (especially pipelines), storage, and wholesale marketing. Involved in high-carbon oil sands.	https://www.gibsonenergy.com/about-us/ Gibson [1]
Halliburton	Very large US-based corporation which provides products and services to the energy industry, especially the oil and gas sector. "North America's leader in unconventional resources" including high-carbon oil and gas.	http://www.halliburton.com/en-US/default.page
Heritage Oil	UK-based oil and gas corporation, mainly focusing on exploration, development and production.	http://www.heritageoiltd.com/
Ikon Science	UK-based geosciences company, providing services for oil and gas exploration and production.	https://www.ikonscience.com/about/about-us
INEOS Upstream	UK-based oil and gas exploration and production corporation. It has two divisions, one which operates in the North Sea and one focused on shale gas via hydraulic fracturing. It claims to be "the biggest player in the UK onshore shale gas sector with access to over one million acres ... in England and Scotland".	https://www.ineos.com/businesses/ineos-shale/our-business/

Inpex	A world top 20 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). Japanese-based company, engaged in research, exploration, development, production of oil and gas.	https://www.inpex.co.jp/english/ FFI
JKX Oil and Gas	UK-based oil and gas exploration and production company operating mainly in eastern Europe, including Ukraine and Russia.	http://www.jkx.co.uk/
Lukoil	World's 6th largest oil and gas corporation, in terms of known reserves (CO ₂ emissions equivalent). Russian-based company, involved in wide range of operations, including exploration, production, refining and chemicals manufacture. Not state-owned. Russian oil industry is widely criticised for poor environmental record.	http://www.lukoil.com/Company/CorporateProfile FFI; Wikipedia
Maersk Oil	Maersk Oil was a Danish oil and gas company owned by the A. P. Moller-Maersk Group, but which in 2018 was taken over by Total (see Total). Until its takeover, it was a world top 75 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent).	Maersk Oil [1] FFI
Midland Valley	UK-based geosciences consultancy, providing services especially for oil and gas exploration and development. Its work involves shale oil and gas. Part of Petroleum Experts Ltd.	https://www.mve.com/about/about-midland-valley
Nexen	Large Canadian-based oil and gas corporation, now owned by CNOOC (see CNOOC). Its operations include high-carbon oil sands and shale oil/gas. In 2018, its name changed to CNOOC Petroleum North America.	https://intl.cnooltd.com/ FFI; Wikipedia
Nexen Petroleum UK	UK subsidiary of Nexen (see Nexen).	
NPA CGG Services	Part of CGG (see CGG). CGG's NPA Satellite Mapping group provides services to the oil and gas industry for exploration and production.	https://www.cgg.com/en/What-We-Do/GeoConsulting/NPA
NRG Energy	Large US-based energy corporation, especially involved in electricity generation. Over 80% of its plants are fossil fuel-based, including coal, oil and gas.	https://www.nrg.com/generation/asset-map.html
Oando	A world top 100 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). Nigerian-based company, involved in production activities.	https://www.oandopl.com/ FFI
Oil & Gas UK	Oil & Gas UK is "the leading representative body for the UK offshore oil and gas industry" representing around 400 members in the UK.	Oil & Gas UK [1]
Ophir Energy	UK-based oil and gas corporation, focusing on exploration and production in Asia and Africa. In 2019, it was acquired by Medco.	https://www.ophir-energy.com/

PDVSA	Venezuela's state-owned oil and gas corporation. It is involved in exploration, production, refining and exporting of oil and gas.	http://www.pdvsa.com/index.php?lang=en
Pembina Pipeline	Canadian-based corporation, focused on transportation, processing and storage of oil and gas products. Heavily involved in the high-carbon oil sands sector.	http://www.pembina.com/about-us/
Petrocare	US-based consultancy, providing services mainly to the oil and gas industry.	http://www.petrocare-marineconsultants.com/
Petrofac	UK-based engineering corporation, which builds and operates facilities for the global oil and gas industry.	https://www.petrofac.com/en-gb/about-us/what-we-do/
PGS	Norwegian-based geosciences consultancy, providing services to the oil and gas industry for exploration and production.	https://www.pgs.com/about-us/
Premier Oil	A world top 100 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). UK-based company, involved in exploration and production.	http://www.premier-oil.com/ FFI
Reabold Resources	UK-based oil and gas investment corporation.	https://reabold.com/
Repsol	A world top 25 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). Spanish-based company, involved in a wide range of activities including exploration and production.	https://www.repsol.com/en/ FFI
Repsol Sinopec Resources UK	UK-based oil and gas exploration and production company operating in the North Sea. Joint venture between Repsol (see Repsol) and Addax Petroleum UK, a subsidiary of Sinopec (see Sinopec).	https://www.repsolsinopecuk.com/about-us FFI
Rio Tinto	A world top 30 coal corporation, in terms of reserves (CO ₂ emissions equivalent). UK/Australian-based mining company. Criticism of environmental impacts from mining activities in Indonesia led to divestment by the Government Pension Fund of Norway.	http://www.riotinto.com/ FFI; Wikipedia
Rosneft	World's 2nd largest oil and gas corporation, in terms of known reserves (CO ₂ emissions equivalent). Russian state-controlled company, with an especially controversial history.	https://www.rosneft.com/ FFI; Wikipedia; Rosneft [1]
Royal Dutch Shell	World's 7th largest oil and gas corporation, in terms of known reserves (CO ₂ emissions equivalent). UK/Dutch-based company, commonly known as Shell. Has received particular criticism over its operations in Nigeria and the Arctic.	https://www.shell.com/ FFI; Wikipedia

RPS Energy	UK-based energy consultancy, part of RPS Group. It provides numerous services to the oil and gas industry, including for exploration and production.	https://www.rpsgroup.com/sectors/energy/
Sasol	A world top 60 corporation, in terms of oil and gas reserves and a world top 90 corporation, in terms of coal reserves (both CO ₂ emissions equivalent). South African-based company, whose subsidiaries include one in the UK.	https://www.sasol.com/about-sasol/overview-0 FFI
Saudi Aramco	One of the world's largest oil and gas corporations, but specific data is lacking on the total size of its reserves. Saudi Arabian state-owned oil company, also known as Aramco. It manages over 100 oil and gas fields in Saudi Arabia, including both the world's largest onshore and offshore oil fields. Involved in unconventional gas extraction.	https://www.saudiaramco.com/ Wikipedia
Schlumberger	World's largest oilfield services corporation. French/US-based company, which especially supports exploration and production work.	https://www.slb.com/who-we-are
Shell	See Royal Dutch Shell	
Shell Centenary Scholarship Fund	UK charity set up by Royal Dutch Shell (see Royal Dutch Shell). Trustees appointed by Shell, as Shell is the 'sole member' of the fund.	https://www.shellcentenaryscholarshipfund.org/ Shell CSF [1]
Siccar Point Energy	UK-based oil and gas corporation, involved in exploration and production in the North Sea.	http://www.siccarpointenergy.co.uk/
Sinopec	A world top 20 oil and gas corporation, in terms of reserves (CO ₂ emissions equivalent). Chinese state-owned company, also known as China Petroleum & Chemical Corporation.	http://www.sinopec.com/listco/en/about_sinopec FFI
SRK Consulting	Canadian-based geosciences consultancy, which provides services to several sectors, especially mining and oil and gas companies.	https://www.srk.com/en/ww-who-we-are-0
SSE	Large UK-based energy supply corporation, including electricity and gas. Over 70% of its electricity was produced from fossil fuels in 2019. It has begun investing heavily in renewable energy sources.	http://sse.com/ http://electricityinfo.org/fuel-mix-of-uk-domestic-electricity-suppliers/
Statoil	See Equinor	
Tata Group (Tata Sons)	Tata Group is an Indian-based conglomerate operating in a wide range of different industries, including both fossil fuels and arms. Owned by Tata Sons. Subsidiaries include Tata Power and Tata Steel which hold large coal reserves. In combination, it would be in the world top 30 in terms of coal reserves. (Also see Tata Power and Tata Steel.)	https://www.tata.com/business/overview FFI

Tata Power	A world top 90 coal corporation, in terms of reserves (CO ₂ emissions equivalent). Indian-based electric utility company, and part of Tata Group (see Tata Group). Majority of its electricity generation is from coal plants.	https://www.tatapower.com/ FFI
Tata Steel	A world top 35 coal corporation, in terms of reserves (CO ₂ emissions equivalent). Indian-based steel-making company, and part of Tata Group (see Tata Group). Most of its steel is produced using coal.	https://www.tatasteel.com/ FFI
Total	World's 11th largest oil and gas corporation, in terms of known reserves (CO ₂ emissions equivalent). French-based company, which has extensive operations covering most areas, such as exploration, production and refining.	https://www.total.com/en FFI
Tullow Oil	UK-based oil and gas corporation, which engages in exploration and production mostly in Africa.	https://www.tulloil.com/about-us
Weir Group	UK-based engineering corporation, providing technical support to the mining, oil and gas, and power sectors. Some of its technology is specific to extraction of high-carbon oil sands and shale gas.	https://www.global.weir/
Wood Mackenzie	UK-based energy consultancy, with a major focus on the oil and gas and mining industries.	https://www.woodmac.com/our-expertise/

Notes and further references

- BG Group [1] - <https://web.archive.org/web/20101021072039/http://www.bg-group.com/ContactUs/Pages/pgContactUs.aspx>
 BG Group [2] - <https://www.shell.com/investors/financial-reporting/pre-combination-bg-group-publications.html>
 Centrica [1] - <https://www.theguardian.com/business/2013/jun/13/british-gas-centrica-bowland-shale-fracking>
 FFI – Fossil Free Indexes (2017). <http://fossilfreeindexes.com/research/the-carbon-underground/>
 FFI [2] – Fossil Free Indexes (2016). <http://fossilfreeindexes.com/research/the-carbon-underground/>
 Gibson [1] - <https://www.gibsonenergy.com/getattachment/cdfb505e-b76c-4f5e-ae77-5268b7365266/Investor-Day-Presentation>
 Maersk Oil [1] - <https://www.total.com/en/media/news/press-releases/total-closes-maersk-oil-acquisition-and-becomes-second-largest-operator-north-sea>
 Oil & Gas UK [1] - <http://oilandgasuk.co.uk/wp-content/uploads/2017/05/Blueprint-for-Government-2017.pdf>
 Rosneft [1] - <https://www.telegraph.co.uk/finance/newsbysector/energy/oilandgas/8261264/BP-Rosneft-deal-Who-are-Rosneft.html>
 Shell CSF [1] - http://apps.charitycommission.gov.uk/Accounts/Ends78/0001071178_AC_20151231_E_C.pdf
 Wikipedia – relevant company pages on the Wikipedia website
 [All URLs correct as of 27/09/19]

Table 21.2 - Arms corporations mentioned in this report

<i>Corporation</i>	<i>Key information</i>	<i>Main sources</i>
AECOM	In the world top 60 as measured by military sales. US-based engineering corporation, involved in stockpile maintenance and modernisation of the US nuclear arsenal.	https://www.aecom.com/ SIPRI; PAX
Airbus Defence & Space	See Airbus Group.	
Airbus Group	In the world top 10 as measured by military sales. Dutch-based aerospace corporation, involved in maintenance and development work on French nuclear arsenal, and development and manufacture of combat planes, including armed robotic planes ('drones').	https://www.airbus.com/ SIPRI; PAX
AWE (Atomic Weapons Establishment)	The organisation responsible for design, development, manufacture and maintenance of warheads for the UK's nuclear weapons. It is a 'government-owned contractor-operated' corporation managed by a consortium of Jacobs Engineering, Lockheed Martin UK and Serco.	http://www.awe.co.uk/about-us/our-company/ NIS
Babcock	In the world top 30 as measured by military sales. UK-based company, which is part of the consortium building the UK's new nuclear-armed Dreadnought submarines.	https://www.babcockinternational.com/ SIPRI; NIS
BAE Systems	World's no.4 corporation measured by military sales, and largest outside USA. UK-based company whose main products include combat planes, nuclear submarines, missiles, combat vehicles, and military ships. Lead contractor for UK's new nuclear-armed Dreadnought submarines. Developing armed drones. Current area of controversy are weapons sales to Saudi Arabia for use in Yemen war.	https://www.baesystems.com/ SIPRI; PAX; NIS; section 2.3 (of main report)
Bechtel	In the world top 30 as measured by military sales. US-based engineering company, involved in several US nuclear weapons programmes, including development of new weapons system.	https://www.bechtel.com/ SIPRI; PAX
BMT Defence Service	UK-based engineering company, offering ship design and support for submarines, warships and other military vessels. Provides services both internationally and to the UK government. Part of BMT.	https://www.bmt.org/
Boeing	World's no.2 corporation measured by military sales. US-based company whose main military products include combat and transporter aircraft, and missiles. Key contractor for US nuclear weapons programmes. Also involved in UK nuclear weapons work.	https://www.boeing.com/ SIPRI; PAX

Boeing Company Charitable Trust	Charity funded by Boeing, which provides grants to (among others) scientific bodies and military/ veteran bodies. (Also see Boeing.)	https://www.boeing.com/principles/community-engagement.page?
CH2M Hill	US-based engineering consultancy, involved in a US nuclear weapons testing programme. In 2017, it was acquired by Jacobs Engineering.	http://www.dontbankonthebomb.com/ch2m-hill/
Cobham	In the world top 60 as measured by military sales. UK-based company, which manufactures numerous military technologies.	https://www.cobham.com/SIPRI
Collins Aerospace	US-based arms corporation formed in 2018 from the merger between UTC Aerospace Systems and Rockwell Collins, and part of United Technologies Corporation. Military sales put it in the world's top 15.	https://www.collinsaerospace.com/who-we-are/about-us SIPRI
CST	Part of the Dassault Group (see Dassault Systèmes).	
Dassault Systèmes	French-based software company which provides services to the arms industry. It is part of the Dassault Group whose subsidiary, Dassault Aviation, is in the world top 50 as measured by military sales.	https://www.3ds.com/industries/ SIPRI
EADS Astrium	Now Airbus Defence & Space (see Airbus Group).	
Finmeccanica	See Leonardo.	
General Electric	In the world top 25 as measured by military sales. US-based engineering corporation, with divisions in many industrial sectors. Military products mainly include aircraft engines.	https://www.geaviation.com/SIPRI
GKN	In the world top 70 as measured by military sales. UK-based engineering company, whose sales include systems and components for military aircraft.	https://www.gkn.com/en/about-gkn/gkn-at-a-glance/ SIPRI
GKN Aerospace	Part of GKN (see GKN).	
HoneyWell	In the world top 20 as measured by military sales. US-based technology corporation, involved in numerous military aerospace projects. Produces key components for nuclear-armed missiles deployed by USA and UK.	https://aerospace.honeywell.com/en/markets/defense SIPRI; PAX
Leonardo	In the world top 10 as measured by military sales. Italian-based arms company, formerly known as Finmeccanica, and formed from the integration of its subsidiaries AgustaWestland, Alenia Aermacchi, DRS Technologies, Selex ES, Oto Melara and WASS. It is involved in the production of French nuclear-armed missiles.	https://www.leonardocompany.com/en/about-us SIPRI; PAX

Lockheed Martin	World's no.1 corporation measured by military sales. US-based company whose main products include combat planes, nuclear-armed missiles and other weaponry. It manufactures the Trident nuclear missiles used by US and UK militaries.	https://www.lockheedmartin.com/ SIPRI; PAX
MASS	UK-based corporation, whose work is mainly focused on electronic warfare operational support, cyber security, and support to military operations. Part of the Cohort Group.	https://www.mass.co.uk/ http://www.cohortplc.com/about_us/our_businesses/
MBDA	In the world top 30 as measured by military sales. Trans-European corporation that develops and manufactures a wide range of missiles. It developed the ASMPA nuclear-armed missile for the French air force. Its Brimstone and Storm Shadow missiles have been used by the Saudi air force in Yemen.	https://www.mbda-systems.com/ https://www.mbda-systems.com/product/asmpa/ https://www.caat.org.uk/resources/companies/mbda-bae-systems-airbus-leonardo SIPRI; section 2.3 (of main report)
Meggitt	In the world top 100 as measured by military sales. UK-based engineering corporation, with a significant arms-related division.	https://www.meggitt.com/what-we-do/ SIPRI
Northrop Grumman	World's no.5 corporation measured by military sales. US-based company whose main products include combat planes (including nuclear-armed bombers), missiles (including nuclear-armed ones), and drones. It is key within the US and UK nuclear weapons programmes.	http://northropgrumman.com/ SIPRI; PAX
Raytheon	World's no.3 corporation measured by military sales. US-based corporation whose main products include guided missiles. Its weapons have been sold to Saudi Arabia for use in the Yemen war.	http://raytheon.com/ SIPRI; PAX; section 2.3 (of main report)
Ricardo	Large UK-based engineering corporation, with a large arms division.	https://defence.ricardo.com/
Roke	UK-based corporation, with a focus on military technologies. Part of the Chemring Group, which has been in the world top 100 as measured by military sales several times during the last 10 years.	https://www.roke.co.uk/ SIPRI
Rolls-Royce	In the world top 20 as measured by military sales. UK-based engineering company focusing on power and propulsion systems, including for combat and other military planes, and nuclear-powered submarines. It is part of the consortium manufacturing the UK's new nuclear-armed Dreadnought submarines.	https://www.rolls-royce.com/products-and-services.aspx SIPRI; NIS
Science Applications International Corp (SAIC)	In the world top 40 as measured by military sales. US-based corporation, providing IT support and other services. Most of its work is for the US military.	http://www.saic.com/about/about-saic/ SIPRI

Selex Communications	Part of Selex ES, which was a subsidiary of Finmeccanica, now known as Leonardo (see Leonardo). Selex ES was in the world top 60 as measured by military sales until company restructuring.	SIPRI; Wikipedia
Selex Galileo	Predecessor to Selex ES, which was a subsidiary of Finmeccanica now known as Leonardo (see Leonardo). Selex ES was in the world top 60 as measured by military sales until company restructuring.	SIPRI; Wikipedia
Thales	In the world top 10 as measured by military sales. French-based corporation, which designs and builds electrical and electronic systems mainly for military uses. It is involved in the French ASMPA nuclear weapons programme. Also involved in developing drones.	https://www.thalesgroup.com/en/ SIPRI; PAX
Ultra Electronics	UK-based corporation focused on electronic and software technologies for military uses. It has been in the world top 100 as measured by military sales several times in the last 10 years.	https://www.ultra-electronics.com/about-us/group-overview.aspx SIPRI

Notes and further references

NIS – Nuclear Information Service (2019). <https://www.nuclearinfo.org/article/new-report-trouble-ahead>

PAX – PAX (2019). <https://www.dontbankonthebomb.com/2019-producers/>

SIPRI – Stockholm International Peace Research Institute (2018). <https://www.sipri.org/databases/armsindustry>

Wikipedia – relevant company pages on the Wikipedia website

[All URLs correct as of 27/09/19]

Table 21.3 - UK military organisations mentioned in this report

<i>Organisation</i>	<i>Key information</i>	<i>Main sources</i>
British Army	UK land forces. For main ethical concerns, see below.	https://www.army.mod.uk/
Defence Science and Technology Laboratory (DSTL)	Executive agency of the Ministry of Defence. Its stated purpose is to ensure "that innovative science and technology contribute to the defence and security of the UK."	https://www.gov.uk/government/organisations/defence-science-and-technology-laboratory
Ministry of Defence Defence Equipment and Support (MOD DE&S)	Government body that purchases and supports all the equipment and services used by the UK armed forces. It also works closely with industry under various partnering agreements, including research funding programmes.	https://www.gov.uk/government/organisations/defence-equipment-and-support
Royal Air Force	UK air force. For main ethical concerns, see below.	https://www.raf.mod.uk/
Royal Navy	UK naval force. For main ethical concerns, see below.	https://www.royalnavy.mod.uk/
Welbeck Defence Sixth Form College	Specialist college funded by the Ministry of Defence for pupils aged 16-19 who want to pursue a career in the UK armed forces or the MOD section of the civil service.	http://www.dsfc.ac.uk/Principals-Welcome

There are numerous ethical concerns related to activities of the UK military. Major issues include:

- Political, financial and technical support provided to UK arms corporations and their customers, which include nations with poor human rights records, e.g. via UK Trade and Investment (government body) and Defence and Security Equipment International (world’s largest trade fair for military equipment held in London) (CAAT, 2016a; 2016b).
- Recruitment of under-18s – i.e. children – into the military. The British Army recruits from age 16 and the Royal Navy and Royal Air Force recruit from age 17. (Recruits are kept in non-combat roles until 18.) The UK is the only country in Europe to recruit from age 16. There is evidence that the army targets deprived communities in its recruitment activities (CRIN, 2019).
- UK military strategy and equipment/ capability is well beyond what would be necessary solely for territorial defence and international peace-keeping operations. The most problematic equipment includes: nuclear-armed submarine-launched ballistic missiles; aircraft carriers; very long-range nuclear-powered submarines; very long-range strike planes (including air-to-air refuelling); and very long-range armed robotic planes (SGR, 2013).

Notes and further references

CAAT (2016a) – <https://www.caat.org.uk/campaigns/stop-arming-saudi/a-shameful-relationship.pdf>
 CAAT (2016b) – <https://www.caat.org.uk/resources/publications/economics/special-treatment.pdf>
 CRIN (2019) – <https://home.crin.org/evidence/research/british-army-recruitment-and-deprivation-report>
 SGR (2013) – <https://www.sgr.org.uk/publications/offensive-insecurity>