

Polluter and cyber elites: from common problems to common solutions

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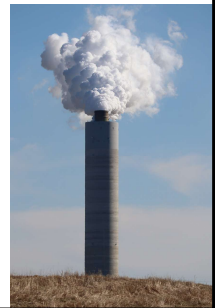


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(All references listed in final slides)

Polluter elite

- Senior managers of major corporations in:
 - Fossil fuel production
 - Coal, oil, gas
 - High carbon/ polluting sectors
 - Coal & gas utilities, auto, aviation, cement, steel, animal-based farming & foods, military & arms, leisure shipping etc
 - Services for high carbon/ polluting sectors
 - Banking, advertising, lobbying etc
- Over-consumers
 - World wealthiest 1%/10%
 - By income or assets
- Political supporters of overconsumption



- Focus on people powerful enough to direct technologies and industries, as well as those who profit most from pollution, and end users ultimately responsible for pollution.

[image credit: Ian Montgomery]

Cyber ('tech') elite

- Senior managers of major corporations in:
 - Information and communications (ICT) industry, especially
 - Artificial Intelligence
 - Social media
 - Cryptocurrencies
 - Automated weapons
 - Services for these sectors
 - Banking, advertising, lobbying etc
- Political supporters of poorly-regulated ICTs



- Focus on people powerful enough to direct technologies and industries, as well as those who profit most from those technologies, and end users ultimately responsible for damage caused by misuse.

[image credit: Gerd Altman]

Common interests

1. Energy intensification
2. Industrial deregulation
3. Militarisation

➤ Points to increasing political alignment

- At first glance, these two elites seem to have little in common, but closer examination reveals clear overlaps in their interests.

Common interest 1: energy intensification

- Fossil fuel industry profits from high energy use
 - 81% of world's 'total energy supply' is still from fossil fuels
 - Global energy demand is still increasing
- Depletion of reserves causing move to unconventional fossil fuel sources
 - Extraction from (e.g.) tar sands, deep-sea reserves, shale formations (fracking)
 - Unconventional sources require greater energy input
- Both producers and consumers subject to higher costs, eating into profits/ wealth



- Data from IEA (2024a)

[image credit: Elliott Day]

Common interest 1: energy intensification

- Major ICT corporations fuelling rapid growth of energy use
 - AI, cryptocurrencies & associated data centres
 - International Energy Agency projects global electricity consumption by data centres to rise by 130% by 2030 (from 2024)
 - Leading to new contracts with nuclear power industry
- Higher costs, eating into profits/ wealth
- AI being used by fossil fuel industry to increase extraction



- Total consumption of data centres will be similar to Japan's (current) electricity sector by 2030
- Main source: IEA (2025)

[image credit: Pete Linforth]

Common interest 2: deregulation

- Fossil fuel industry
 - Climate/ other environmental regulations curbing fossil fuel use and supporting alternative industries, especially renewables and energy efficiency
 - Development of technologies to maintain fossil fuel use
 - e.g. carbon capture, utilisation & storage (CCUS); blue hydrogen
 - Higher costs; legal risks
- High carbon industries
 - Subject to higher costs (probably); legal risks
- Over-consumers
 - Subject to higher costs, especially affecting frequent flyers, SUV owners etc

- Most carbon dioxide captured by fossil fuel industry is used in enhanced oil recovery (EOR) to increase extraction of crude oil – so does not reduce emissions
- Blue hydrogen is derived from fossil gas

Common interest 2: deregulation

- ICT industry
 - Restrictions on social media, internet access due to online abuse, incitement to violence, child pornography, election interference, copyright infringement etc
 - Increasing application to AI
 - Restrictions on cryptocurrencies due to fraud, organised crime use etc
 - Restrictions on data centre construction due to climate/ water use regulations
 - Regulations also affecting new nuclear power partnerships
 - Higher costs; legal risks

- Increasing pressure to reduce regulation of nuclear industry

Common interest 3: militarisation

- Militaries and fossil fuel industry deeply intertwined
 - Historically, militaries were early adopters of fossil fuels
 - Fossil fuel resources – especially oil reserves – have been key factor in wars for over a century
 - Existing military craft heavily dependent on fossil fuels
 - Especially combat planes, warships, armoured vehicles
 - Military is hardest sector to decarbonise
 - Militaries have frequent opt-outs from climate/ environmental regulations
 - Links are very profitable for fossil fuel industry



- For more on historical links between fossil fuels, militaries and war, see: Auzanneau (2018); Crawford (2022)
- For UK examples of environmental opt-outs for militaries, see: Parkinson (2020)

[image credit: USAF]

Common interest 3: militarisation

- Militaries and ICT industry deeply intertwined
 - Militaries already widely use ICTs for control and co-ordination of activities
 - Increasing use of military drones, AI, autonomous systems in general
 - Dependencies are increasing
 - e.g. Microsoft, Google, Amazon “embedded” in Israeli genocide on Gaza
 - Previous ICT corporate commitments to minimise military work now discarded
 - Attempts to update arms control agreements/ international humanitarian law to cover new ICTs bogged down in negotiations
 - Lack of co-operation between major military powers
 - Links are very profitable for ICT industry



- Microsoft, Google, Amazon “embedded” in Israeli genocide on Gaza, according to UN report – Al-Jazeera (2025)
- Previous ICT corporate commitments to minimise military work now discarded – for examples, see: Inglesant (2025)

[image credit: RAF]

Commons positions & activities

- Rising support for:
 - Deregulation, on both climate/ environment and worker/ human rights
 - Increased military spending
 - Right-wing politicians, including far right
- Activities:
 - Major funding of political allies
 - Taking on government roles
 - Building links with nuclear industry

- Trends seen most clearly in USA – a few examples below...
- Funding of political allies
 - Oil & gas companies provided 18 times more funding to Trump's campaign than to Harris' campaign in 2024 election (Sustainable Views, 2024)
 - Elon Musk provided \$119m to Trump's campaign in 2024 (Sustainable Views, 2024)
- Government roles:
 - Rex Tillerson (former CEO of ExxonMobil) became Secretary of State (2017-18) under Trump
 - Chris Wright (former CEO of Liberty Energy, leading fracking company; Board member of Oklo, nuclear company) became Energy Secretary (2025-) under Trump
 - Elon Musk (X/Twitter) led 'Dept of Government Efficiency' (2025) under Trump, without leaving his industry post
- Nuclear industry links:
 - Microsoft deal with Three Mile Island nuclear plant (CNN, 2024)
 - Many major electricity generators – e.g. Dominion, Duke Energy – own both coal and/or gas plants and nuclear plants, without having plans to phase out fossil fuels (Chap 3 of: Ramana, 2024)

How is the polluter elite vulnerable?

- Rising costs of oil/ gas extraction driving up costs/ cutting profits
 - Energy efficient tech and renewables often cheaper
 - Peak oil and gas soon?
- Low carbon/ environmental economy is major employer
 - Larger than fossil fuel industry in many nations/ regions
 - Sub-sectors more labour intensive, e.g. home insulation, roof-top solar
- Public backlash over climate/ environment impacts
 - Particularly private jets, space tourism, super yachts etc



- Globally, low carbon energy industry employs 37 million, while fossil fuel industry employ 33m (IEA, 2024b) – and gap is widening
- Support for climate action remains high – for example, in the UK, large proportions of voters still support renewables over fossil fuels, even right-wingers (Climate Barometer, 2025)

[image credit: NoCopyrightVideoClips via Pixabay]

How is the cyber elite vulnerable?

- Poorly regulated increase in automation will cause major job losses
 - Employers moving from 'pyramid' to 'diamond' structure
 - Much more serious concern than bogus immigration arguments
- Risk of AI industry stock-market crash
- Rapid increase in data centres could push up energy/ water bills
- Public backlash over online threats, especially to children
- Public backlash over climate/ environment impacts
 - Including nuclear risks



- AI causing job losses and changes in organisational structure: e.g. The Observer (2025)
- Potential AI stock-market crash: e.g. BBC (2025)
- Increase in data centres pushing up energy bills in, for example, the USA: e.g. Bloomberg (2025)

Let's talk about a better future

- Sustainable, just, low carbon society
 - Plenty of fulfilling jobs
 - Elimination of poverty, including fuel poverty
 - Clean environment and safe climate
 - Comfortable homes for all
 - Reduction of inequality and related social tensions
 - Careful, democratic use of technology to enhance quality of life
 - Strong basis for international peace



- We need to keep reminding people of the positive benefits of a sustainable society!

[image credit: pexels]

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