

TOXIC CONTAMINATING SOLAR, WIND TURBINES & BESS

****Leaching Via Weak Spots in Solar Panels**

[https://www.researchgate.net/publication/](https://www.researchgate.net/publication/348883160_Leaching_via_Weak_Spots_in_Photovoltaic_Modules)

[348883160_Leaching_via_Weak_Spots_in_Photovoltaic_Modules](https://www.researchgate.net/publication/348883160_Leaching_via_Weak_Spots_in_Photovoltaic_Modules)

"Our long-term experiments clearly demonstrate that it is possible to leach out all, or at least a large amount, of the (toxic) elements from the photovoltaic modules. It is therefore not sufficient to carry out experiments just over 24 h and to conclude on the stability and environmental impact of photovoltaic modules."

****Solar Realities - Physicist John Droz jr**

https://election-integrity.info/Energy/Solar_Energy_Concerns.pdf

We know that these are some of the toxic (some carcinogenic) chemicals that have been identified as likely being in solar panels (click on the links to get an idea of what some of the adverse health consequences are):

Per- and Polyfluoroalkyl Substances (PFAs) (also see here and here) Perfluorooctane sulphonate (PFOS)

Polytetrafluoroethylene (PTFE)

Fluorinated Ethylene (FEP)

Cadmium Telluride

Copper Indium Selenide Cadmium Gallium diselenide Copper Indium Gallium diselenide Silicon

Tetrachloride Hexafluoroethane

Polyvinyl Fluoride

Also, here is a basic explanation of the silicon manufacturing part of solar panels. The following are some additional toxic chemicals that have been identified as possibly being involved in the fabrication of solar panels, which might end up in the finished product:

Hydrogen chloride

Silicon tetrachloride

Hydrochloric acid

Sulfuric acid

Nitric acid

Sulfuric acid

Polycyclic aromatic hydrocarbons Formaldehyde

Arsine gas

Trichlorosilane gas

Silane gas

Sulfur dioxide

Sulfur hexafluoride

Sodium hydroxide

Potassium hydroxide

Lead

****Giant Hail Causes Injuries and Damage to Cars, Homes Across South-East Queensland - ABC News - 1/11/2025** <https://www.abc.net.au/news/2025-11-01/qld-thunderstorms-hit-south-east-saturday/105961034>

****South-East Queensland Lashed by Two Days of Giant Hail, with the Possibility of More Storms to Come - ABC News - 3/11/2025** <https://www.abc.net.au/news/2025-11-03/storms-giant-hail-hits-south-east-queensland-weather-bom/105963838>

****What We've Learned from the Sydney Hailstorm of 1999**

<https://www.fm.com/insights/sydney-hailstorm-1999>

Adding to the complexity, the widespread adoption of solar panels has introduced new vulnerabilities.

"Solar panels weren't being used in '99. Now they are, and they're not resilient to hail either," Hunneyball pointed out.

The future of hail risk in Australia is likely to see increasing damage due to solar panels on roofs and solar farms.

Without building resilience into this technology, the issues will persist.

****Contamination from Industrialised Solar's Galvanised Steel Supports**

<https://www.facebook.com/share/p/srbXaCbKgVXocgsm/?mibextid=xfxF2i>

"Australia is the second-most affected country by hail in the world, trailing only the United States."

"PFAS Contamination is a Serious Issue that Needs Immediate Attention"

****COMMONWEALTH PFAS BAN**

Some types have been found to be toxic to human health and the environment. In its most definitive regulatory action taken to date, the Commonwealth has effectively banned the import, use and manufacture of some of the more prominent types of PFAS (PFOS, PFOA and PFHxS) from 1 July 2025. (21 Feb 2024)

****NOTE: Chinese Solar Panels are coated in Perfluorooctane Sulfonate or Perfluorooctane Sulfonic Acid.**

****"PFOS and PFOS-related Chemicals are Still Being Produced for Regulated Uses (Primarily in China)"**

<https://greensciencepolicy.org/our-work/building-materials/pfas-in-building-materials/>

****"PFOS Chemicals are Just as Bad for Wildlife as they are for Humans.**

Tests have found that even small levels of contamination can lead to compromised immune

systems and brain asymmetry." <https://www.completehomefiltration.com.au/difference-between-pfas-and-pfos/>)

****It does not matter how much PFAS we take out of the environment if we keep on pumping them in.**

Relying on clean-ups is like bailing out a sinking boat with a teacup while the crew is busy drilling new holes in the hull.

****PFAS Remediation: Why Clean-Ups Alone Cannot Solve the Problem**

<https://chemsec.org/why-pfas-remediation-alone-cannot-solve-the-problem/>

****WINAICO's Glass-Glass Solar Modules are PFAS-Free - WINAICO Australia - 17/6/24**

<https://www.winaico.com.au/blog/winaicos-glass-glass-solar-modules-are-pfas-free> - 'in order

to reduce harmful chemicals being released

in the environment, to protect human health, ecosystems and wildlife from contamination, enable safe rainwater consumption and reduce Toxic Solar waste with a sustainable, reusable product.'

****PFAS and Other Compounds**

in Solar Panels, Wiring, and Coatings

[https://documents.dps.ny.gov/public/Common/ViewDoc.aspx?](https://documents.dps.ny.gov/public/Common/ViewDoc.aspx?DocRefId=%7BC0A8A29D-275C-45FD-97DB-F8BA66E80800%7D)

[DocRefId=%7BC0A8A29D-275C-45FD-97DB-F8BA66E80800%7D](https://documents.dps.ny.gov/public/Common/ViewDoc.aspx?DocRefId=%7BC0A8A29D-275C-45FD-97DB-F8BA66E80800%7D)

****SAVING GREENE: Citizens For Sensible Solar**

<https://www.facebook.com/groups/CitizensForSensibleSolar/>

'Renewable energy should offer more than promises that it is good for the environment.

The solar industry promotes photovoltaic (PV) technology in the most wholesome terms: generating clean, free power from the sun.

This benevolent assessment potentially omits environmental impacts during the manufacturing, operational lifetime, and disposal of solar panels and battery storage systems.

Host towns need proof, not simply promises, when evaluating how renewable projects may affect their residents and environment, both now and in the future.

We need precedent-setting amendments to the Local Government, State & Federal Laws to prohibit using Solar Panels, Wind Turbines & BESS that "utilize or contain any amount of GenX chemicals or polyfluoroalkyl (PFAS) substances" in order to protect our essential productive Food growing land & vital Water supplies.'

****Defective or Damaged Solar Panel Recycling Mandated for 135 MW project – pv magazine**

Australia [https://www.pv-magazine-australia.com/2025/02/13/defective-or-damaged-solar-](https://www.pv-magazine-australia.com/2025/02/13/defective-or-damaged-solar-panel-recycling-mandated-for-135-mw-project/)

[panel-recycling-mandated-for-135-mw-project/](https://www.pv-magazine-australia.com/2025/02/13/defective-or-damaged-solar-panel-recycling-mandated-for-135-mw-project/)

****Unmasking the Toxic Truth - The Solar Panel Waste Story**

https://youtu.be/_Ck2dHfIJ3s?si=0WS5CYhuCb6hNvP0

****WIND TURBINES ARE A FAKE GREEN SCOURGE - SHEDDING TONNES OF MICROPLASTICS FROM WIND TURBINE BLADES (KNOWN AS 'LEADING EDGE EROSION') - AFTER ONLY A FEW YEARS OF OPERATION.**

****Bisphenol A Pollution from Wind Turbines** - Tim Smith 13/07/2023 "Bisphenol A is the most toxic substance we know' - Swedish Environmental Protection Agency

<https://docs.wind-watch.org/Bisphenol-A-Pollution-Wind-Turbines.pdf>

****Will Bisphenol A be the PFOS of Wind Energy?**

https://www.zeeland.nl/sites/default/files/digitaalarchief/IB23_b50318e9.pdf

****Bisphenol A in Wind Turbines Damages Human Fertility**

<https://bergensia.com/bisphenol-a-in-wind-turbines-damages-human-fertility/es-human-fertility/>

****GROUND WATER SUPPLIES MUDDIED BY PILE DRIVING FOR THE MASSIVE WIND TURBINE BASES.**

*Wind farm woes continue as Victorian turbines fail after only five years – www.cairnsnews.org -

11th April 2024 <https://cairnsnews.org/2024/04/11/wind-farm-woes-continue-as-victorian-turbines-fail-after-only-five-years/>

****'Forever Chemicals' used in Lithium Ion Batteries Threaten Environment, Research Finds | Lithium-ion batteries | The Guardian 14/7/24**

<https://www.theguardian.com/technology/article/2024/jul/14/forever-chemicals-lithium-ion-batteries-environment>

****Coastal Wetland Deposition of Cathode Metals from the World's Largest Lithium-ion Battery Fire" (Moss Landing BESS FIRE)**

According to independent Experts this is actually worse than a radioactivity spill.

A lot of this very toxic stuff is not easily located. Whereas, with radioactivity, one needs just a hand-held Geiger counter to locate the pollutant.

<https://www.nature.com/articles/s41598-025-25972-8#Tab1>

****Safety of Grid Scale Lithium-ion Battery Energy Storage Systems**

"The scale of Li-ion BESS energy storage envisioned at "mega scale" energy farms is unprecedented and requires urgent review. The explosion potential and the lack of engineering standards to prevent thermal runaway may put control of "battery fires" beyond the knowledge, experience and capabilities of local Fire and Rescue Services.

BESS present special hazards to fire-fighters..."

https://www.researchgate.net/publication/352158070_Safety_of_Grid_Scale_Lithium-

ion_Battery_Energy_Storage_Systems

****Grid Scale Batteries & Fire Risk**

<https://static1.squarespace.com/static/656f411497ae14084ad8d03a/t/66fd2383b56dbc6906390297/1727865736681/Fannon-Batteries.pdf>

****Disaster at Moss Landing: The Risk of Battery Storage - YouTube - 16/1/25**

<https://www.youtube.com/watch?v=xuTaZFQA18E> ******<https://wattsupwiththat.com/2025/02/20/massive-green-battery-plant-catches-on-fire-again-weeks-after-major-toxic-blaze/>

******<https://localnewsmatters.org/2025/02/13/environmental-tests-reveal-elevated-levels-of-toxic-metals-since-moss-landing-battery-fire/>

******<https://www.sfgate.com/news/bayarea/article/environmental-tests-reveal-battery-metals-around-20163514.php>

******<https://www.cbsnews.com/sanfrancisco/news/elevated-levels-heavy-metals-elkhorn-slough-lithium-battery-facility-fire/>

****Lithium-Ion Battery Fire Risks & Extinguisher Limitations**

1.CSIRO ActivFire® Advisory Note AN-004

CSIRO explicitly states it "has not and will not certify ... that any fire extinguisher can effectively extinguish a Li-Ion battery fire."

Verification Services

****" There is a General Lack of Guidance and Provisions in Building Codes, Standards, and Legislation in Relation to Safety to Address the Potential Risks From These Technologies. Part of the problem is that we do not yet know enough about their probability of failure, their mechanisms of failure and potential consequences of failure."**

<https://www.fire.nsw.gov.au/page.php?id=940>

****NHMRC Updated Australian Drinking Water Guidelines - 25 June 2025, including:**

- revised chemical fact sheets on per- and polyfluoroalkyl substances (PFAS), selenium, lead and manganese
- an information sheet on metals and metalloids leaching from plumbing products
- a new chemical fact sheet on bismuth
- a new combined chemical fact sheet on silicon and silica
- consequential edits to the Guidelines to align advice and ensure consistency.

The Australian Drinking Water Guidelines webpage

New and revised health-based guideline values and advice has been developed for the following PFAS to reduce health risks from exposure to these chemicals in Australian drinking water:

- * PFOA (perfluorooctanoic acid): 200 ng/L
- * PFOS (perfluorooctane sulfonic acid): 8 ng/L
- * PFHxS (perfluorohexane sulfonic acid): 30 ng/L
- * PFBS (perfluorobutane sulfonic acid): 1000 ng/L
- * GenX chemicals (hexafluoropropylene oxide dimer acid and its ammonium salt): no health-based guideline value can be derived at this time

PFAS Project webpage has been updated to include an overview of the PFAS review, highlighting the guideline development process, associated health risks, and other key related information.

Contact water@nhmrc.gov.au

Alan Singh

Executive Director, Research Quality and Advice National Health and Medical Research Council

****Paris Agreement** aims to strengthen the global response to the threat of climate change, in the context of sustainable development and efforts to eradicate poverty.

Taking Over Farmland to Build Facilities to Produce Intermittent Energy is a Violation of Article 2, Section 1(b) of the Paris Agreement (2015).

"This Agreement... aims to strengthen the global response to the threat of climate change, in the context of sustainable development and efforts to eradicate poverty, including by:

"(b) Increasing the ability to adapt to the adverse impacts of climate change and foster climate resilience and low greenhouse gas emissions development, **IN A MANNER THAT DOES NOT THREATEN FOOD PRODUCTION**"; See: https://unfccc.int/files/essential_background/convention/application/pdf/english_paris_agreement.pdf .

****Livestock Production Assurance Program**

The particular **Question is 2.8** of the "Food Safety on Your Property" section.

"Do livestock have access to leaking electrical transformers, capacitors, hydraulic equipment, solar panels, wind turbines, coal seam gas structures or coal mine wastes?"

- Yes

- No

- I am now aware and making plans to restrict access

<https://www.facebook.com/groups/2147446775628698/posts/2222816628091712/> https://m.facebook.com/story.php?story_fbid=2222816628091712&id=2147446775628698

****Wind Turbine Collapse in Western Victoria 'Totally Unacceptable', Engineer says - National Mining Day**

<https://www.miningday.com.au/wind-turbine-collapse-in-western-victoria-totally-unacceptable-engineer-says/>

****Worker Crushed in Fatal Incident at VESTAS Golden Plains Wind Farm in Bells Rd Rokewood, west of Geelong - ABC News**

<https://www.abc.net.au/news/2024-11-11/wind-turbine-worker-fatal-crushed-rokewood-victoria/>

104584560

****'Liberated' Serrated Parts Flying off New Wind Turbine Blades - some 750-800m from the Turbine - Golden Plains Farmer Russell Coad**

https://www.heraldsun.com.au/news/victoria/golden-plains-farmer-finds-parts-of-wind-farm-turbine-on-property/video/7937c746ac82a61259e8142313c23587fbclid=IwY2xjawF3EhhleHRuA2FlbQlxMQABHcVhQ3SlzRc33dBEZHCCN9pHBGYbWIWTRJYh_JI4aN1aPVNeQhLuXLpeQA_aem_RHnIRrtRhpmYpz3dHudmeg

****This Chinese Manufactured Wind Turbine a Veritable Pile of Junk: Questions are being asked about Material Quality and How Many More Might Simply Fall Over.**

<https:// Cairnsnews.org/2025/02/09/two-year-old-wind-turbine-in-victoria-collapses-how-unsustainable/> <https:// Cairnsnews.org/2025/02/09/two-year-old-wind-turbine-in-victoria-collapses-how-unsustainable/>

****Wind "Farm" Owner Admits Liability to Nuisance Claims - Gibbet Hill Wind Farm, Wexford, Ireland**

The case is continuing....

In 2018, the Plaintiffs sued the wind farm for nuisance and sought an injunction.

Byrne & anor v ABO Wind Ireland Ltd & ors (Approved) | [2020] IEHC 591 | High Court of Ireland | Judgment | Law | CaseMine

"Click on the full Judgement Tab"

Byrne & anor v ABO Wind Ireland Ltd & ors (Approved) | [2020] IEHC 591 | High Court of Ireland | Judgment | Law | CaseMine

ECONOMIC LICENCE HAS BEEN FORGED:

****The ISP is:-**

- Not Fit For Purpose
- An Unmitigated Disaster
- Fatally Compromised •NOT Independent •IS DEAD & BURIED! (Aidan Morrison)

****"Wind Farms in Eastern Australia - Recent Lessons" - 2012 - Electrical Engineering Expert Paul Miskelly so clearly outlining & warning policy makers more than a decade ago in his published paper:**

<https://journals.sagepub.com/doi/reader/10.1260/0958-305X.23.8.1233>

****Fancy a Model? Wait Till She Moves In - by Chris Uhlmann - 1/12/2025**

"The irony is, from the moment humanity first burned wood, we have used fossil fuels to protect ourselves from the fury of the weather.

Now, just as many warn the climate will become more extreme, we are rebuilding our entire power system on the whims of wind and sunshine.

It has the feel of an Icarus moment: a civilisation convinced it can defy gravity, only to discover the wax melts in real sunlight."

<https://chrisuhmann.substack.com/p/fancy-a-model-wait-till-she-moves>

****The 'Sunk Cost' Trickery That Makes Renewables Seem Cheaper Than They Are - 23rd July 2023.**

[https://www.fresheconomicthinking.com/p/the-sunk-cost-trickery-that-makes?](https://www.fresheconomicthinking.com/p/the-sunk-cost-trickery-that-makes?utm_medium=web)

utm_medium=web

AIDAN MORRISON

How CSIRO justifies the exclusions: "Sunk Cost"

But wait, this deception is so brazen and transparent.....

All of these tens of billions of dollars of projects are explicitly excluded from the cost of integrating renewables.

****"The Idea That Adding More & More Renewable Energy to the Grid Pushes Power Prices Down has been Comprehensively Dismissed."- 10/2/25 4:48 minutes - Aidan Morrison**

<https://www.skynews.com.au/opinion/peta-credlin/governments-insistence-on-renewables-amid-soaring-power-prices-lashed/video/86bd230860f5514d1e587239c6b913ab>

****Energy Transition Masquerade: The \$360 Billion You Pay - YouTube**

<https://www.youtube.com/watch?v=x0NKDozvO58>

****Centre for Independent Studies Zoe Hilton discusses the Liberal Party's recent move to Ditch Net Zero as well as their choice to stay in the Paris Agreement. | Sky News Australia | Facebook - 14/11/2025**

<https://www.facebook.com/SkyNewsAustralia/videos/raises-a-few-questions-liberal-party-decision-to-stay-in-paris-agreement-dispute/1158866003084976/>

NATIONAL SECURITY NIGHTMARE:

The Government has No Measures to Protect New Energy Sources from Malicious Actors!

****China-Linked Belt and Road Company Involved in Australian Net-Zero Projects Sparks Security Concerns - TA NEA - 17/10/2025**

<https://tanea.com.au/en/china-linked-belt-and-road-company-involved-in-australian-net-zero-projects-sparks-security-concerns/>

****China's Energy Dream - Patricia Adams**

"Carbon dioxide reduction only makes sense for those China wishes to harm & supplant."

<https://www.thegwpf.org/content/uploads/2021/12/Adams-Chinas-Energy-Dream.pdf>

****Chinese Hackers are Determined to 'Wreak Havoc' on U.S. Critical Infrastructure, FBI**

Director Wray Warns | PBS News - 2024

<https://www.pbs.org/newshour/politics/chinese-hackers-are-determined-to-wreak-havoc-on-u-s-critical-infrastructure-fbi-director-wray-warns>

****Hacked Off: CyberCriminals Attack Rooftop Solar To Bring Down Entire Grid**

<https://stopthesethings.com/2024/09/07/hacked-off-cybercrims-attack-rooftop-solar-to-bring-down-entire-grid/> <https://stopthesethings.com/2024/09/07/hacked-off-cybercrims-attack-rooftop-solar-to-bring-down-entire-grid/>

Communist China is setting us up for solar panel-based disaster:

"Solar panels that make the electricity suitable for the power grid and which are usually connected to the web, can be "easily hacked, remotely disabled or used for DDoS [Distributed Denial of Service] attacks." DDoS is one of the most common types of attacks, which basically try to overwhelm a system... Solar panels were outlined as a vulnerability in several scenarios, also due to the dominance of a single country, China, in the supply chain."

"Traditionally, cyber risk with solar inverters was low because they were not connected to the internet," said Falk. "However, as the popularity of smart home energy systems has boomed, this has changed, with most solar inverters now web connected."

****Rogue Communication Devices Found in Chinese Inverters**

<https://www.reuters.com/sustainability/climate-energy/ghost-machine-rogue-communication-devices-found-chinese-inverters-2025-05-14/>

****Beautifully Hackable - Irina Slav on Energy - 12/8/24**

https://irinaslav.substack.com/p/beautifully-hackable?utm_campaign=email-post&utm_source=substack

****U.S Blacklists Chinese Battery Giant**

"These batteries are used in electric vehicles here in Australia," Mr Danby said.

<https://www.skynews.com.au/opinion/us-military-is-concerned-america-blacklists-chinese-battery-giant-over-military-links/video/765e12fec5e3b837a5e606e40371a7f9>

****China's Sinister Solar Panels and the Plan to Black Out the World! - YouTube - 13:44 minutes**

<https://www.youtube.com/watch?v=aqL0s18HXbY>

****Australia's Climate Ambitions have a Modern Slavery Problem - ASPI Editors' picks for 2024:**

'Examining the Origins of our Big Batteries' aspistrategist.org.au [https://](https://www.aspistrategist.org.au)

www.aspistrategist.org.au/editors-picks-for-2024-australias-climate-ambitions-have-a-modern-slavery-problem-examining-the-origins-of-our-big-batteries/

****China's Dirty Secret - The Real Reason Why Tofu Dregs are Collapsing! - YouTube**

<https://www.youtube.com/watch?v=5GIBadLZ17E&pp=0gcJCf8Ao7VqN5tD>

****Aussie Expert's Chilling Chinese EV Warning**

<https://www.news.com.au/technology/motoring/on-the-road/china-could-make-evs-explode-cyber-expert-warns/news-story/2d29b6e3474d85dc64e8bdcb0995fbec>

****CCP-tied Group is Quietly Fueling US-Based Climate Initiatives: Tax Filings 'Environmentalists Fueled by China are Promoting Policies that Would Increase our Dependence on China'**

<https://www.foxnews.com/politics/ccp-tied-group-quietly-fueling-us-based-climate-initiatives-tax-filings>

DODGY TransGrid & DELIBERATE FAILURE of AUSTRALIAN BATTERY MAKER:

****Transgrid: Alleged Breaches of the National Electricity Rules | Australian Energy Regulator (AER)**

<https://www.aer.gov.au/publications/reports/compliance/transgrid-alleged-breaches-national-electricity-rules>

****Notice of Dispute of Transgrid's RIT-T for Meeting System Strength Requirements in NSW | Australian Energy Regulator (AER) - 13/8/2025**

<https://www.aer.gov.au/documents/cis-notice-dispute-transgrids-rit-t-meeting-system-strength-requirements-nsw>

****Crying Shame Inside the Demise of Australia's Only Battery Maker**

<https://www.afr.com/companies/energy/crying-shame-inside-the-demise-of-australia-s-only-battery-maker-20250901-p5mrl4>