From: [redacted]
To: Do-Not-Reply IPCN Submissions Mailbox
Subject: IPCN Middlebrook Solar Electricity Generating Works + BESS OBJECTION SUBMISSION
Date: Thursday, 26 September 2024 4:56:59 PM

Middlebrook Solar Electricity Generating Works + BESS OBJECTION SUBMISSION

Middlebrook Solar Electricity Generating Works & Battery Energy Storage System defies all the Principles of Ecological Sustainable Development, the NSW Government's Objectives of Clean, Reliable, Affordable, Secure Energy & all the OBJECTIVES OF THE NATIONAL ELECTRICITY LAW of PRICE, QUALITY, SAFETY, RELIABILITY & SECURITY OF SUPPLY OF ELECTRICITY & THE RELIABILITY, SAFETY & SECURITY OF THE NATIONAL ELECTRICITY SYSTEM

Unreliable, Intermittent, Solar/Wind/BESS are NOT IN THE INTERESTS OF CONSUMERS - DEFYING NATIONAL ELECTRICITY LAW OBJECTIVES OF:-

*PRICE, QUALITY, SAFETY, RELIABILITY & SECURITY OF SUPPLY OF ELECTRICITY.

*THE RELIABILITY, SAFETY & SECURITY OF THE NATIONAL ELECTRICITY SYSTEM.

According to AEMO's long term data, Solar only has an actual average capacity factor of approx 20%, so the Proponent's weather dependent claims of their 320 MW Electricity Generating Works generating enough electricity to power about 122,200 homes with these pathetic,
Intermittent, Weather Dependent Solar Panels & incapable, filthy Battery Energy Storage System is ludicrous, impossible & a **PUBLIC HEALTH & SAFETY FIRE & PFAS RISK.**
Vulnerable people will die of hyperthermia without reliable, secure, affordable power

17/9/24 OMINOUS FINDINGS OF PFAS IN SEVERAL WATER FILTRATION PLANTS IN NSW - SHOW THE NSW GOVERNMENT IS DRAGGING ITS

FEET ON TOXIC PFAS CHEMICALS - WITH CORPORATE GREED REIGNING SUPREME OVER PUBLIC HEALTH & SAFETY.

Added to this is the inevitable, irreversible Toxic Solar Contamination that occurs on site during operation from intact Solar panels with weak spots, toxins leaking from the join point & wiring, leaching of heavy metals including lead from Inferior, Aged & Degrading panels & those that are Broken, Damaged, Hail Fractured & Burnt

There is no acknowledgment of these obvious, common occurrences in the Department's Assessment & therefore, no CONDITION FOR BUNDING, NO large-scale, clean-up, decontamination or Evacuation plan for dealing with sudden, destructive HAIL storm or hazardous, toxic FIRE events, nor for the excessive, toxic waste burden that will curse local communities & our children's Intergenerational Equity

It is apparent that despite knowing the truth, the Department & IPCN just don't care if our soil & water is poisoned & we suffer & die because they will never be held responsible for the Land/Water Contamination/Pollution caused by Industrialised Solar & Wind Electricity Generating Works - it's the LOCAL REGULATORY AUTHORITY - TAMWORTH COUNCIL who inevitably bears this Responsibility/Liability under the POEO Act

Additionally, with NO DECOMMISSIONING/REMEDIATION BOND there is nothing to ensure the HOSTS responsible will ever remove this JUNK
Previous IPCN Approvals have included NOTHING at all to ensure the Public is protected from Solar/BESS Toxic Contamination of our life-sustaining Soil & vital Water sources, nor that Decommissioning & Remediation will ever occur
In fact IPCN have become even more careless in only requiring a Decommissioning/Remediation plan 3 years after 'Operation,' when in 2020 it was 3 years after 'Construction '
Either are laughable & completely useless without an UPFRONT BOND - & the Developers & IPCN know it!!

There is no hope in any of these dodgy shell companies eg
TotalEnergies Renewables Australia Pty Ltd - subsidiary of TotalEnergies - **has been "accused of undermining the energy transition and enriching itself at the expense of climate change, suspected of human rights violations and weighed down by a history of corruption and environmental scandals."28 May 2024**

WESTERN SYDNEY UNIVERSITY'S IAN WHITE RECENTLY REPORTED DIRE PFAS RESULTS REVEALED IN NSW with extremely serious Health impacts
(Independent Review - Sydney Morning Herald)
This highlights the fact that the reason there is NO EVIDENCE is because you DON'T TEST!

The only reason there is NO Australian EVIDENCE regarding Solar panel & BESS Toxicity is because the Department & other Approving Bodies DELIBERATELY DON'T TEST!

If approved, this previous, highly productive Middlebrook Solar site & surrounds will become industrialised, contaminated wasteland - a visual eyesore & a Public Health & Safety Risk - never returned to its inherent food producing capability as claimed
The IPCN is continually, deliberately failing to add essential Conditions to ensure this land water is NOT Contaminated & will be returned to its inherent food producing capability - which is impossible without a DECOMMISSIONING/REMEDIATION BOND to ensure the HOSTS responsible will remove this JUNK when the flaky company folds & to NO guarantee the protection of the site, surrounding land & water sources from the typically irresponsible Solar Construction processes, the presence of Solar on site during operation, the typical damaging erosion & water/sediment run-off, the inevitable toxic contamination resulting from onsite, intact Solar panels with weak spots, aged, degrading Solar panels, if inferior, broken, damaged, fractured by hail or burnt

The Department's Recommendation for Development Consent of Middlebrook Solar + BESS is creating a "set of circumstances that causes or threatens to cause material harm to the environment."

• involving actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial; (that)
• results in actual or potential loss or property damage.

Whilst the EIS states:-
"Objectives of the proposed Middlebrook Solar are to:
• Generate renewable energy and improve network stability
• Minimise environmental impacts
• Minimise social impacts and maximise social benefit."
The Department's - DPHI Approval Photo

DPHI APPROVAL OF SOLAR/WIND ELECTRICITY GENERATING WORKS & BATTERY ENERGY STORAGE SYSTEMS ON RU1 LAND DEFY THE PARIS AGREEMENT BY THREATENING AUSTRALIA'S FOOD SECURITY AS WELL AS ENERGY SECURITY, ECONOMIC PROSPERITY & NATIONAL SECURITY.

Paris Agreement Photo

PARIS AGREEMENT

Article 2, Section 1(b) of the Paris Agreement 2015 states:

"(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."

Tamworth Council The Local Regulatory Authority Photo

The Local Regulatory Authority - Local Council are ultimately Responsible/Liable for any Land/Water Contamination or Pollution caused by Solar/Wind Electricity Generating Works according to POEO Act.

Inflicting this Toxic Contaminating plan on the Tamworth Council & Community is Moral Hazard & Gross Negligence - showing "a lack of care that demonstrates reckless disregard for the safety or lives of others, which is so great it appears to be a conscious violation of other people's rights to safety "

The Department & previous IPCN Panel's reliance on obvious fabrications in the Large-Scale Solar Guidelines is incorrect & has seriously detrimental, irreversible implications ..
Where is the reputable, independent, research evidence to substantiate this Department's false claims - which has further been regurgitated by the complicit IPCN for recent Industrialised Solar Approvals.
To Quote the **Energy Assessment Director:**
"In regard to your query regarding the issue of contamination, the metals in solar panels cannot be easily released into the environment This is because the metals are enclosed in thin layers between sheets of glass or plastic within the solar panel Because of this, the use of metals in solar panels has not been found to pose a risk to the environment
To readily release contaminants into the environment, solar panels would need to be ground to a fine dust "

This is not supported by any credible Research or Expert Witness evidence!

Despite highlighting the need to Determine the Toxic Risks for 5 years, it is apparent & has been readily admitted by the Department's FRV Walla Walla Solar Planner & Environmental Assessment Officer who conflictingly immediately became FRV's Walla Walla Solar Project Developer - admitting to the now wrongly Approved Glenellen Solar locals in Greater Hume that he was also heavily involved with - that the NSW DPIE did not have the resources to do the Research - into Contamination, Heat Island Effects, etc. - they were JUST TRUSTING THE DEVELOPERS!

The Federal Government's recommendation of Australian AgriSolar for Large Scale Solar as credible is equally as fudged - written by the Solar Developers & gullible Hosts.

Despite clear cases of extremely toxic risk - eg. Burnt Cadmium Telluride Solar Panels at Gulgong's Beryl Solar, DPIE Water stated that NO TESTING OF SOIL & WATER WAS REQUIRED BY THE SOLAR COMPANY as this was NOT IN THEIR APPROVAL CONDITIONS

I was naive to believe that if only the authorities heard the truth & saw the practical facts they would realise the obvious threats to our life sustaining soil & water caused by unregulated, toxic classed Industrialised Solar & Batteries but NO - there's not a skerrick of Accreditation required regarding Toxicity, Health & Safety midst Food, they deliberately fast track their dodgy Approvals ignoring Public Health & Safety & the Precautionary Principle to prioritise predatory vested interests over our LIVES.

Where is the Department's

***The Amended Condition C8 - Prior to Commencement of any Works - Stormwater Management Plan - set by Oxley Rd Solar Uranquinty 24th Nov 2022 in response to Expert Witness advice from Professor Ian Plimer regarding Solar's inevitable Toxic Contamination impacts during operation - that has not been included in the Department's Conditions of Consent.**
This includes REGULAR QUALIFIED TESTING ONSITE & DISCHARGE FROM THE SITE, AVAILABILITY OF RESULTS, CONTAMINATION

RESPONSE PROCEDURE, etc.

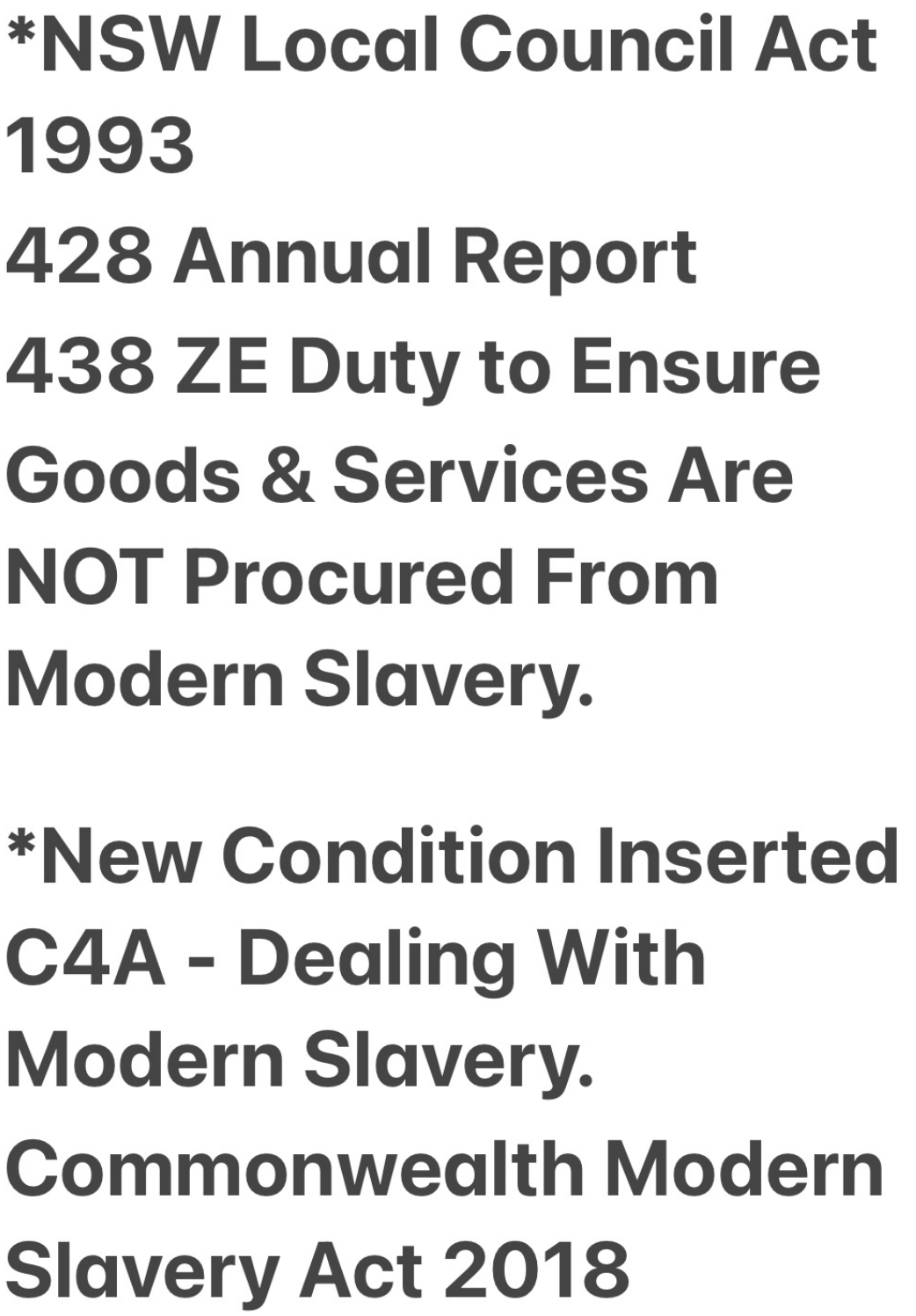
Inclusion of this is imperative on RU1 land with water sources onsite & in close proximity.

It is completely wrong for the proponents to say:- "the project is not in a water-sensitive area or near groundwater" .that it "remains consistent with ecologically sustainable development and is in the public interest."

NONE OF THESE TOXIC SOLAR/WIND/BESS DISASTERS ARE IN THE PUBLIC INTEREST WHATSOEVER & I DO NOT CONSENT TO ANY PART OF THE RENEWABULL SWINDLE/INTERCONNECTOR NIGHTMARE!

Neither has the necessary New Modern Slavery Condition C4A been included by the Department for Middlebrook Solar - requiring proof prior to the Construction Certificate - that NO Slave Labour linked components will be used.

****New Condition Inserted C4A - Dealing With Modern Slavery.**
Commonwealth Modern Slavery Act 2018
NSW Local Council Act Photo -

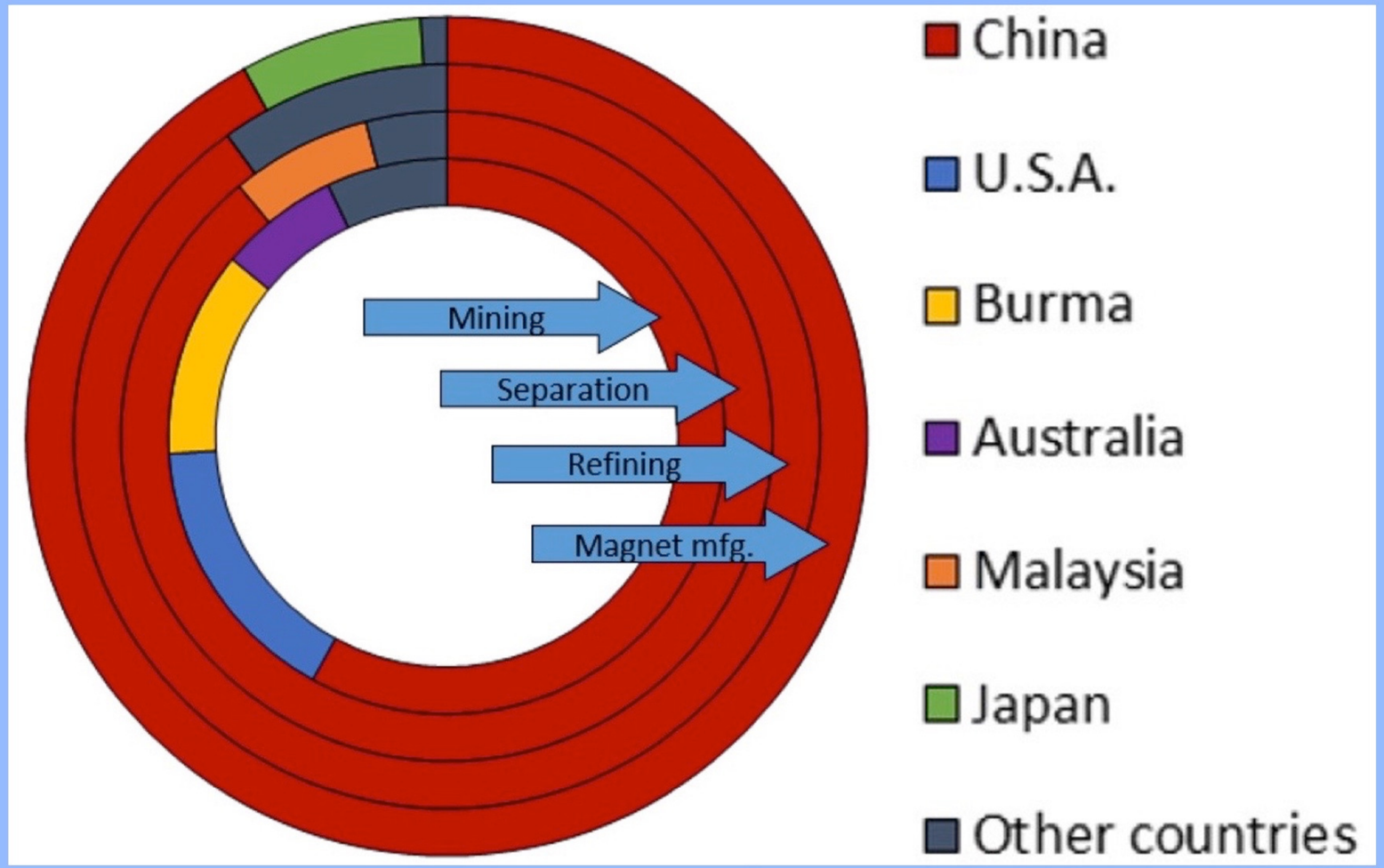


Reliable, Ethical, Secure, 24/7, Far Superior Australian Solution = Nuclear Power Photo

Reliable, Ethical, Secure 24/7, Far Superior, Australian Solution = Nuclear Power with a Minimal Environmental Footprint 1/75th of the Land Area required for Equivalent Capacity Industrialised Solar & 1/360th of the Land Area required for Equivalent Capacity Industrialised Wind.

Sent from my iPhone

China Controls >90% Of Global NdFeB Magnet Market & 100% of Dy & Tb



Source: https://www.energy.gov/sites/default/files/2022-02/Neodymium%20Magnets%20Supply%20Chain%20Report%20-%20Final.pdf .

CONDITIONS

The Development Application was approved subject to the conditions in the Council Assessment Report with the following amendments and additions. Amendments/new text appears in red text for ease of referencing

- Insert new Condition C4A dealing with Modern Slavery as follows:

  C4A Prior to the release of the Construction Certificate the applicant must submit to and have acknowledged by the General Manager or delegate written evidence that the manufacture of the solar panels to be installed on the site satisfies the relevant requirements of the Commonwealth *Modern Slavery Act 2018*.

  Reason: Condition included to facilitate good governance.

- Amend Condition C8 to read as follows:

  C.8 Prior to the commencement of any works, a stormwater drainage design and management plan shall be submitted to, and approved by Council, to the satisfaction of the General Manager or delegate, incorporating the following if required:

  i) measures to limit post development flows from the site to pre-developed flows for all storms up to and including the 100 Year ARI event. Full plan details of any proposed On-Site Detention (OSD) system and supporting calculations shall be provided.

  ii) stormwater outlets designed to dissipate flow and minimise erosion.

  iii) Identification of testing points for regular water samples.

  iv) Stormwater testing procedure prepared by a suitably qualified person that includes but is not limited to the following:

  - Methodology for sampling procedure – including appropriate standards
  - Baseline levels
  - Acceptable levels
  - Timings for sampling and reporting
  - Response procedures should unacceptable levels of contaminates be found.
  - Availability of results – at a minimum it is expected that the results be made available through the operators website on an annual basis.

  Reason: Amendments to the condition were made to provide for capture and testing of stormwater runoff from the site to manage stormwater flows and quality within the site and discharge from the site.

- Amend Condition C26 to read as follows:

  C26 Prior to the issue of an Occupation Certificate for the works a minimum of 20,000 litres of water supply must be dedicated on site for the purposes of bushfire protection. The tank/s dedicated for bushfire protection must comply with the acceptable solutions under table 7.4(a) of Planning for Bush Fire Protection 2019. The tank must be connected to a mains water supply.

  Reason: To secure a permanent water supply on site for the purpose of bushfire protection in circumstances where the water supply is available and avoiding the need to rely on tanker supply

- Amend Condition C31 to read as follows:

  C.31 Prior to the operation of the solar farm, buffer plantings, as set out in the approved landscape plan, shall be established. For clarity, the buffer planting along the western boundary fronting Oxley Bridge Road must be 5m in width.

  Reason: To clarify an inconsistency between details shown on the approved site layout and landscape plans.

- Amended Condition C32 to read as follows:

  C.32 Prior to the operation of the solar farm, an Operational Environmental Management Plan shall be submitted to and approved by Council, to the written satisfaction of the General Manager or delegate. The Plan shall, but not be limited to:

From: [redacted]
To: Do-Not-Reply IPCN Submissions Mailbox
Subject: Middlebrook Solar Electricity Generating Works + BESS - SSD-10455 - Objection Submission
Date: Thursday, 26 September 2024 4:17:46 PM
Attachments: c658ee36-33ea-478b-be21-a5500a424a0f_1540x982.jpeg.webp

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Dear IPCN,
Please find my Objection Submission to Middlebrook Solar Electricity Generating Works + BESS - as well as additional References & 3x PDF's of photographs as already provided - as part of my presentation - to be included as Referenced in my written submissions.
I request that my name & contact details be withheld when my Submission is published.
Thank you.

From [redacted]

.....

Middlebrook Solar Electricity Generating Works + BESS - SSD-10455 - Objection Submission

The NSW Independent Planning Commission have been proven to have no credibility, to have multiple Commissioners with a Conflict of Interest (including an employee of the 'Renewable' biased Umwelt & an ex Deputy Secretary of the Planning Department, along with a much discredited Electrical Engineer - well known for a lack of Engineering Facts in previous IPCN Approval of flawed projects,) are NOT genuinely 'Independent' as claimed, need to be included in a comprehensive audit & thorough, investigative, Independent Inquiry into the diabolical 'Fake Green RenewaBULL Solar/Wind Energy Poverty Grift & Ponzi Scheme/Scam' which is irresponsibly & negligently wrecking NSW/Australia - which IPCN are disgracefully aiding & abetting, embedded in & helping to orchestrate in haste!

As clearly revealed in all of their previous reckless & unjustifiable Approvals to date for Solar/Wind Electricity Generating Works + BESS, their outrageously biased findings are based on LIES & DECEPTION - using **"confection ….. made up evidence - so lacking in integrity that no weight can be placed on it!"** (Federal Court Judge Justice Natalie Charlesworth - NT Santos Barossa Gas deal - dismissed EDO Appeal - 15/1/24)

This includes the totally fudged, concocted use of the following unsubstantiated drivel provided by the Energy Assessment Director following its ridiculously compromised inclusion in the revised 2022 Large-Scale Solar Guidelines:-

"In regard to your query regarding the issue of contamination, the metals in solar panels cannot be easily released into the environment. This is because the metals are enclosed in thin layers between sheets of glass or plastic within the solar panel. Because of this, the use of metals in solar panels has not been found to pose a risk to the environment. **To readily release contaminants into the environment, solar panels would need to be ground to a fine dust."**

Where is the reputable, independent, peer reviewed research evidence to prove this Statement which the IPCN has so unconscionably adopted as fact?

Despite 5 years of pleading with the DPIE/DPE/DPHI, DPIE Water & IPCN TO ACKNOWLEDGE THE **REAMS OF REPUTABLE, INDEPENDENT, PEER REVIEWED RESEARCH EVIDENCE TO THE CONTRARY** - including the 'Save Our Surroundings' Research Paper, numerous other credible Research links from around the world, with Australian Expert Witnesses presenting the facts repeatedly to DPIE/DPE/DPHI, DPIE Water, IPCN bodies **HIGHLIGHTING THE SERIOUS/IRREVERSIBLE ENVIRONMENTALLY HARMFUL IMPACTS THAT REQUIRE THE NEED TO DETERMINE THE RISKS OF TOXIC-CLASSED PV SOLAR PANELS & FILTHY BATTERY ENERGY STORAGE SYSTEMS to OUR PUBLIC HEALTH & SAFETY - OUR LIFE-SUSTAINING SOIL & VITAL WATER SOURCES & TO ONSITE, GRAZING SHEEP** - it is clearly apparent that **DPIE/DPE/DPHI, DPIE Water & IPCN CANNOT BE TRUSTED & HAVE DONE ABSOLUTELY NOTHING TO PROTECT OUR LIVES & BIODIVERSITY, OUR PRECIOUS ECOLOGY & UNCONTAMINATED SOIL/WATER RESOURCES!**
Instead, by the conflicted NSW DPIE Walla Walla Solar Planner's/Environmental Assessment Officer's/Project Developer's own admission - NSW DPIE DOES NOT HAVE THE RESOURCES TO DO THE RESEARCH - **THEY ARE JUST TRUSTING THE DEVELOPERS**!

Hence, **DPIE/DPE/DPHI, DPIE Water & IPCN ARE PRIORITISING THEIR FAKE GREEN GRAVY TRAIN & CORPORATE SUBSIDY MINERS OVER THE HEALTH & WELFARE OF THE PEOPLE OF NSW/AUSTRALIA, FUTURE GENERATIONS & THE GREATER GOOD.**

So conniving & unjust is this reprehensible behaviour - Approving Bodies are fully aware they are inflicting **MORAL HAZARD** on naive & unsuspecting Councils who are ultimately responsible for any Soil & Water Contamination/Pollution caused by Solar/Wind Electricity Generating Works under the POEO Act.
DPIE/DPE/DPHI, DPIE Water & IPCN are fully aware of these serious/irreversible risks which trigger the Precautionary Principle but **"They Don't Care & They Don't Care That They Don't Care!"**
They deliberately neglect to adhere to all the Principles of Environmentally Sustainable Development regarding Solar/Wind Electricity Generating Works & BESS in order to accommodate & in no way delay their disingenuous & extremely destructive ruination of our electricity system, rural communities, Agricultural areas, biodiversity & ecological habitat/species - to satisfy all the greedy, vested interests & corporate subsidy miners.
This is **GROSS NEGLIGENCE - "a lack of care that demonstrates reckless disregard for the safety or lives of others, which is so great it appears to be a conscious violation of other people's rights to safety."**

There is NO excuse whatsoever for DPIE/DPE/DPHI, DPIE Water & IPCN
to continue to harm the people of NSW/Australia by ignoring these catastrophic Public Health & Safety Risks regarding our limited, irreplaceable, life-sustaining Soil & Water as clearly outlined
in ****Unmasking the Toxic Truth - The Solar Panel Waste Story**
https://youtu.be/_Ck2dHflJ3s?si=0WS5CYhuCb6hNvP0

The recent Conditions set for Solar Electricity Generating Works + BESS are intentionally, completely useless as IPCN are determined not to deter the Developers or constrain the Fake Green Transition in any way.

Despite claiming there is no counter evidence to their "ground to a fine dust"fudgery - I refer you to **Expert Witness Professor Ian Plimer's presentation regarding Solar Contamination ->**
Please find below the link to the matter PPSSTH-149 on the planning portal:

Electricity Generating Works – Solar Farm | Planning Portal - Department of Planning and Environment (nsw.gov.au)

Once you've clicked on the link, please navigate to the URL link under Other menu (and also under Links menu) for the audio recording (the meeting officially begins around the 20 minute mark).

This resulted in two Precedents set for NSW regarding Industrialised Solar Electricity Generating Works which the Department & IPCN must now include in all subsequent Approval Conditions:-

1.NEW CONDITION INSERTED C4A DEALING WITH MODERN SLAVERY
Prior to the release of the Construction Certificate

2.THE AMENDED CONDITION C8 -
Prior to Commencement of any Works - Stormwater Drainage Design & Management Plan
- **INCLUDING A CONTAMINATION RESPONSE PROCEDURE** + Qualified Testing & Reporting Regime

Oxley Bridge Rd Uranquinty Solar Determination & Conditions.
https://apps.planningportal nsw.gov.au/prweb/PRRestService/DocMgmt/v1/PublicDocuments/DATA-WORKATTACH-FILE%20PEC-DPE-EP-WORK%20PPSSTH-149!20221124T045856.774%20GMT

Oxley Bridge Rd Uranquinty Solar Determination - Conditions

(Photo Reference)

For further detailed, factual information which must also be used in this Assessment - as quoted in brief from Physicist John Droz, jr"aaprjohn" at "northnet" dot "org" & outlined in detail via
Solar Realities
https://election-integrity.info/Energy/Solar_Energy_Concerns.pdf

"Part 1 - Summary of Solar Energy Concerns
Let's put aside the marketing hype, and look at some of the key considerations regarding the promotion and subsidizing of industrial solar energy projects:
a) Solar projects rarely have meaningful state rules or regulations to abide by (note: a similar situation also exists for another current political favorite: wind energy);
b) Solar lobbyists often attempt to further handicap local communities from enacting meaningful regulations, by advocating an expedited approval process;
c) Solar projects require 100% backup, so we must pay for twice the energy sources; d) Solar projects require 100% backup, which is typically from gas, so that needs to be factored in when discussing cost, environmental impact, CO2 reduction, etc.;
e) Solar facilities are likely a net energy sink (e.g., see this study);
f) When a comprehensive and objective financial analysis is done, solar is 5x± the cost of conventional electrical energy sources (e.g., here, here, here, here & here);
g) Despite states shelling out Billions of dollars to benefit the solar industry, no scientific, thorough, objective study has shown that solar is a net societal benefit. h) See this Study: Built Solar Facilities are Chronically Underperforming;
i) Solar has a high potential for substantial environmental harm, like polluting aquifers with carcinogens (e.g., here, here, here, here, and here) [also see Part 2];
j) Solar will likely reduce nearby home values (e.g., here, here, and here);
k) Solar can take prime farmland out of production (e.g., here), which results in loss of jobs, loss of farm equipment & supplies sold, and a loss of consumer produce;
l) Solar facilities with lithium batteries can be a major hazard (e.g., here and here); m) Solar facilities can be problematic to nearby airports (e.g., FAA, study & study); n) Solar results in an enormous toxic disposal problem for the state (e.g., here, here, here, and here) — who will pay for that and where are the state rules about this?
o) Solar has no scientifically-proven consequential net reduction of climate change!
Some studies (e.g., here, here, here, here, here, and here) conclude that there's good evidence that solar facilities make climate change worse; and
p) Going solar likely benefits Communist China (e.g., here, here, and here).

Part 2 - Solar Panel Toxicity Overview
a) most solar panels come from China,
b) China does not have anywhere near the environmental concern that we do, and
c) Chinese suppliers are unlikely to divulge negative information about their products.
The takeaway is: buyer beware.
In other words, potential host communities for industrial solar facilities should be aware of what we do know — and then act accordingly to fully protect their community.
So what DO we know?
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

Additionally, some solar projects include **Lithium battery facilities. These represent an additional array of toxic chemical hazards and fire risks** (e.g., see here).
Lithium Battery Menace: The EV Peril No Wants to Talk About!
https://naturalgasnow.org/lithium-battery-menace-the-ev-peril-no-wants-to-talk-about/

With solar, there are three major concerns with these toxic materials:
a) Over the 20± year estimated life of solar panels, how do states and local communities make sure that these chemicals will not migrate from solar panels into soils and local aquifers? and
b) How will fires at solar facilities be quickly and safely extinguished, before toxic carcinogenic materials are blown in the wind miles away?
c) How will solar panels with these materials be safely disposed of at the end of their useful life, and who will pay for it? (Note: these panels will not biodegrade, plus it is extremely difficult to recycle very much of them.)"

"Now that they" DPIE/DPE/DPHI, DPIE Water, IPCN, NSW/Federal Government & Local Regulatory Authorities/Local Councils **have been alerted to the severity of solar panel toxicity and fire issues, what do conscientious** DPIE/DPE/DPHI, DPIE Water, IPCN, NSW/Federal Government & Local Regulatory Authorities/Local Councils **"do to protect their citizens and eco- systems from these life-threatening chemicals?**

The answers to these questions should primarily be found in State Laws, and secondarily in Local Ordinances (esp where state laws are deficient).

It is unconscionable to have State Legislators mandate solar projects" via various Renewable, Climate & Net Zero Policies, Bills, Legislation**, "yet NOT likewise pass accompanying appropriate Legislation to protect their citizens (and environment) from the well-documented toxic threats that can result from their"** Renewable, Climate & Net Zero Policies, Bills, Legislation.
Additionally, for State Legislators to throw the responsibility of protecting citizens and the environment onto the backs of local representatives, is beyond unreasonable ….."

This Middlebrook Solar Electricity Generating Works + BESS plan puts FOOD SECURITY + ENERGY SECURITY = NATIONAL SECURITY at serious risk - so great that it MUST BE REJECTED OUTRIGHT with an IMMEDIATE MORATORIUM ENACTED + AN INDEPENDENT FEDERAL INQUIRY - INCLUDING A FULL AUDIT OF ALL COMPONENTS, COMPANIES, NETWORKS, APPROVING BODIES & REGULATORS INVOLVED IN THE 'RENEWABLE' ENERGY INDUSTRY TO DETERMINE WHO IS MEETING THE CONDITIONS OF THE NATIONAL ELECTRICITY LAW, THE PARIS AGREEMENT's "IN A MANNER THAT DOES NOT THREATEN FOOD PRODUCTION," WHAT COMPONENTS CAN BE USED FOR SURVEILLANCE & CAN BE REMOTELY DISABLED BY HOSTILE ACTORS & WHO IS SUBJECT TO THE CHINESE COMMUNIST PARTY'S NATIONAL INTELLIGENCE LAW?

The Government has no measures to protect new energy sources from malicious actors!

****National Security Nightmare**

https://www.senatorpaterson.com.au/news/chinas-spy-threat-to-energy-supplies
There are no secure measures currently in place to prevent malicious actors from using Solar Inverters to disrupt the Solar Electricity Grid.

https://www.aspistrategist.org.au/does-chinas-rapid-rise-in-the-australian-car-market-pose-a-security-risk/

***"In July, Transgrid struck a deal with China's ZTT International for the delivery of more than 17,500 kilometres of high-voltage conductors to get ahead on HumeLink and VNI West." 4th Dec 2023**
https://reneweconomy.com.au/transgrid-hands-out-multi-billion-dollar-contracts-for-controversial-humelink-build/m

****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/
https://stopthesethings.com/2024/09/07/hacked-off-cybercrims-attack-rooftop-solar-to-bring-down-entire-grid/
7/9/24
Steve Milloy: (https://x.com/JunkScience/status/1824460766918926744) 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."

****Beautifully Hackable - Irina Slav on Energy - 12/8/24**
https://irinaslav.substack.com/p/beautifully-hackable?utm_campaign=email-post&utm_source=substack

Robert Bryce Substack - 20th May 2023

"In 2020, China controlled about 92 percent of the global NdFeB magnet and magnet alloy market…58 percent of the rare earth mining market, 89 percent of the oxide separation market, and 90 percent of the metallization market." Commerce Department, September 2022. Graphic: Energy Department, 2022

21st April 2024 - Robert Bryce

Questions for the Department & IPCN to Answer
Regarding this **LIST OF IDENTIFIED FORMS OF DEGRADATION, DEGRADATION MECHANISMS HEREIN** ….
****Degradation of Solar Panels**
https://onlinelibrary.wiley.com/doi/10.1002/pip.3788
https://theconversation.com/as-the-world-heats-up-solar-panels-will-degrade-faster-especially-in-hot-humid-areas-what-can-we-do-221990

WHAT ON EARTH DO THE DEPARTMENT & IPCN INTEND TO DO ABOUT WHAT IS NOW A MAJOR SOURCE OF ENVIRONMENTAL POLLUTION FROM DEGRADED, AGED, INFERIOR, DAMAGED, BROKEN, HAIL FRACTURED, BURNT SOLAR PANELS ONSITE & PILING UP IN LANDFILL?

The resultant Toxic Contamination of our Soil & Water is NOT being Tested anywhere in NSW following ongoing, damaging events such as HAIL storms eg. Woolooga Solar - with 68 semi loads of Hail-fractured panels, nor from the highly toxic Cadmium Telluride Beryl Solar Fire at Gulgong because the IPCN ARE DELIBERATELY FAILING TO DETERMINE THE RISKS & ADD

APPROPRIATE CONDITIONS!

****'Solar Panels Contain Numerous Heavy Metals Including Lead."** Professor Paul Dastoor - Information & Physical Sciences + College Of Engineering Sciences & Environment - University of Newcastle

- **There is no level of exposure to lead that is known to be without harmful effects.**
- **Exposure to lead can affect multiple body systems and is particularly harmful to young children and women of child-bearing age.**
- **Lead in the body is distributed to the brain, liver, kidney and bones. It is stored in the teeth and bones, where it can accumulate over time. Human exposure is usually assessed through the measurement of lead in blood.**
- **Lead in bone is released into blood during pregnancy and becomes a source of exposure to the developing fetus.**

Toxic emissions from Industrialised Solar & BESS Fires pose a grave threat to the neighbouring victims, the rural
community and the wider region.
Prevailing winds will carry hazardous fumes towards vulnerable communities where at least one person has already been overcome by fumes & died at Wellington, NSW.
The DPIE/DPE/DPHI, DPIE Water & IPCN know that leakage of toxic residue will definitely occur!

Furthermore, **the environmental impact on our vital water sources cannot be overstated as any contamination could swiftly infiltrate the water table and local river systems, jeopardizing both our quality of life and broader water infrastructure.**

****"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 emerging 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." (SARET Research NSW Fire & Rescue.)**

****Sediment Run-Off Contaminating Land/Water - Court Case -**
"Created, Operated, and Maintained a Nuisance"
Solar farm runoff pollutes property, couple awarded $135 million - CFACT
https://www.cfact.org/2023/06/06/solar-farm-runoff-pollutes-property-couple-awarded-135-million/
By Bonner Cohen, Ph. D. |June 6th, 2023
25th Oct 2023 update …A federal judge has dramatically reduced a jury's $135 million award to a Georgia couple (https://www.ajc.com/news/couple-awarded-135m-after-solar-project-turns-their-lake-to-mud-hole/BZ6BYXQREJCDROQV6ZASUW5WOI/)

****Contamination from Industrialised Solar's Galvanised Steel Supports**
https://www.facebook.com/share/p/srbXaCbKgVXocgsm/?mibextid=xfxF2i

James Falcsik White County Indiana Residents Against Solar
21 h ·
The hazardous materials that exist in solar panels receive a lot of attention out of concern they will leach out into the soil over time, especially if they are damaged by weather events. Has anyone considered what happens to the soil and ground water on a farm that is converted to thousands of acres of solar panels, with tens of thousands of buried ten-foot-long galvanized steel I-Beams driven into the soil to support the racking systems?

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

****200 Million Tonnes of Toxic Solar Panels Destined For Landfills Near You – STOP THESE THINGS**
https://stopthesethings.com/2023/07/19/200-million-tonnes-of-toxic-solar-panels-destined-for-landfills-

near-you/

’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

Gateway Energy Storage System Fire: Otay Mesa, CA - YouTube
https://www.youtube.com/watch?v=A7UY4ioP4VQ

Add yet another Lithium Battery FIRE - this one in Scotland - Lithium Battery Recycling Centre.
https://youtu.be/d-hvsz2tyhc?si=S16_g1LWETu1pj70.

Bouldercombe battery fire sparks warning for residents in regional Queensland - 26/09/23
https://www.9news.com.au/national/bouldercombe-battery-fire-sparks-warning-for-residents-in-regional-queensland/b4b3058a-cb0b-4209-a02d-6b12d80c63ac

Coal’s Importance For Solar Panel Manufacturing – Watts Up With That?
https://wattsupwiththat.com/2024/05/23/coals-importance-for-solar-panel-manufacturing/

Biodiversity Offset Crisis
https://www.crikey.com.au/2023/05/18/biodiversity-offsets-scheme-crisis/
Biodiversity offsets are arguably one of the most damaging environmental policies in a smorgasbord of bad policies, according to the environmental community…..
Offsetting has become a trading market with no real transparency or demonstrative environmental benefits. Proponents self-refer projects, both at the NSW government and federal levels.’