

ID	Name	Location	Comment	Submission Type	Position	Section where addressed in Submissions Report
A01	Griffith City Council	N/A	See detail in Table 3	Public Authority	Comment	Table 3
A02	Crown Lands	N/A	See detail in Table 4	Public Authority	Comment	Table 4
A03	DCCEEW CPHR	N/A	See detail in Table 5	Public Authority	Comment	Table 5
A04	DCCEEW Heritage	N/A	See detail in Table 6	Public Authority	Comment	Table 6
A05	DCCEEW Water	N/A	See detail in Table 7	Public Authority	Comment	Table 7
A06	DPHI Hazards	N/A	See detail in Table 8	Public Authority	Comment	Table 8
A07	DPIRD Agriculture	N/A	See detail in Table 9	Public Authority	Comment	Table 9
A08	DPIRD Fisheries	N/A	See detail in Table 10	Public Authority	Comment	Table 10
A09	DPIRD Resources	N/A	See detail in Table 11	Public Authority	Comment	Table 11
A10	Transport for New South Wales	N/A	See detail in Table 12	Public Authority	Comment	Table 12
A11	UGL RegionalLinx	N/A	See detail in Table 13	Public Authority	Comment	Table 13
A12	Fire & Rescue New South Wales	N/A	See detail in Table 14	Public Authority	Comment	Table 14
A13	NSW Rural Fire Service	N/A	See detail in Table 15	Public Authority	Comment	Table 15
A14	NSW State Emergency Service	N/A	See detail in Table 16	Public Authority	Comment	Table 16
A15	Transgrid	N/A	See detail in Table 17	Public Authority	Comment	Table 17
O01	Save Our Surrounds Murrumbidgee	Griffith, New South Wales	Independent research warns that mega-scale BESS fires exceed firefighting capabilities and have life threatening, poisonous impacts for human beings and biodiversity, while the NSW Government is hastily and irresponsibly approving these dangerously volatile projects without doing their due diligence. This horrific failure in their duty of care to the people of NSW/Australia - in spite of the catastrophic impacts - just to appease vested interests - is outrageous and must be	Organisation	Object	Table 18 Issue 9, Table 18 Issue 15, Table 18 Issue 16



			condemned. "Safety of Grid Scale Lithium-ion Battery Energy Storage Systems" https://www.researchgate.net/publication/352158070_Safety_of_Grid_Scale_Lithium-ion_Battery_Energy_Storage_Systems			
O02	Save Our Surrounds Redbank Plains	Redbank Plains, Queensland	We completely object and do not consent to this evil, poisonous and treacherous plan that's designed to rip off Australian people, contaminate our land/water /biodiversity/the public and enable our greatest enemy to control and harm us.	Organisation	Object	Table 18 Issue 11, Table 18 Issue 28
O03	sosromsey	Romsey, Victoria	Given the documented difficulty of extinguishing lithium-ion battery fires and the environmental persistence of PFAS contamination, this project presents risks that have not been adequately justified or mitigated.	Organisation	Object	Table 18 Issue 6, Table 18 Issue 15
O04	sosmoulame in	Moulamein	The irreversible nature of PFAS pollution means that even a low-probability fire event carries unacceptable long-term risk. Battery fires involving lithium-ion cells have been shown to release toxic gases that pose risks to both human health and livestock.	Organisation	Object	Table 18 Issue 15
O05	Save Our Surrounds Riverina	Lake Albert, New South Wales	WE DO NOT CONSENT TO THIS LIFE THREATENING, HIGHLY TOXIC, CCP RELIANT RUBBISH! **'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	Organisation	Object	Table 18 Issue 26, Table 18 Issue 29

			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/ **Battery recycling plant explodes - twice. (What it means for you.) Auto Expert John Cadogan - YouTube https://www.youtube.com/watch?v=0-nzOJ01Fkc **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 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." https://www.fire.nsw.gov.au/page.php?id=9402 "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)			
O06	Save Our Surrounds Swan Hill	Swan Hill	This CCP reliant, filthy rip-off, BESS plan's ridiculously short 10 year life span and endless replacement makes no sense! It defies all aspects of the National Electricity Law Objective regarding:- (a) price, quality, safety, reliability and security of supply of electricity; and (b) the reliability, safety and security of the national electricity system	Organisation	Object	Table 18 Issue 29

			This BESS creates a cycle of constant replacement, contamination, ever escalating toxic waste and austerity from rising costs.			
O07	Save Our Surrounds Hay	Hay, New South Wales	It is totally illogical to plan to fail so extensively - with an intermittent, weather dependent Solar/Wind/BESS 'Transition' that DOESN'T WORK MOST OF THE TIME, that has an endless and irreversibly poisonous, monumental footprint that is ABSOLUTELY NOT FOR THE GREATER GOOD.	Organisation	Object	Table 18 Issue 29
O08	Save Our Surrounds Lancefield	Lancefield, Victoria	Unacceptable, Unethical Modern Slavery is built into China's BESS. ASPI documents that large-scale batteries rely on forced labour, coercive mining, and human-rights abuses, undermining ethical claims. ASPI Strategist, Editors' Picks 2024	Organisation	Object	Table 18 Issue 23
O09	Save Our Surrounds Callide	Goovigen	This horrible plan is all a lie! It's fake green moral posturing masking unethical sourcing and poisonous consequences. The plan claims environmental virtue while exporting human suffering and pollution to authoritarian regimes and wrecking Australia.	Organisation	Object	Table 18 Issue 23, Table 18 Issue 29
O10	sosbaham1	Barham, New South Wales	Once a battery enters thermal runaway, it may continue to burn internally even when external flames appear to be controlled.	Organisation	Object	Table 18 Issue 29
P01	Annette Wheaton	Narrandera	I would like to make you aware that BESS batteries burn with a temperature of 900C degrees and can burn for up to a week. These batteries have to burn themselves out. It is environmentally dangerous to have a burning BESS spewing dangerous chemical into the atmosphere, across agricultural crops (used for food production) as well as contaminating animals and humans. It is in my opinion, something so dangerous and untested it should not be placed anywhere. THE RISK IS TO GREAT.	Public	Object	Table 18 Issue 11, Table 18 Issue 15
P02	Name withheld	Koorinal, New South Wales	This plan breaches the Government's Primary Duty of failing to protect its citizens from the obvious National Security Risks from CCP produced/controlled BESS infrastructure and the highly toxic, Fire hazardous nature of this BESS. Knowingly introducing such toxic fire risk, cyber vulnerability, and infrastructure fragility in pursuit of ideological energy targets is completely irresponsible and unacceptable.	Public	Object	Table 18 Issue 15, Table 18 Issue 28
P03	Ian McDonaIs	Walcha, New South Wales	Contamination and Waste Management are issues that are being swept under the carpet. It's time government stop putting renewable energy targets ahead of the nation's public health and food security. Please refer to attachment: Contamination and Waste Management are issues that are being swept under the carpet. It's time government stop putting renewable energy targets ahead of the nation's public health and food security. The concept of an industrial lithium battery energy storage system (BESS) is physically, economically, and environmentally flawed. Batteries will never facilitate renewable energy to be 24/7 dispatchable, and with a 2-hour depth are incapable of driving modern industry on any real scale. This pursuit is a total waste of taxpayers' money and is causing willful destruction to the natural environment and untold human misery in mining - tenfold that of fossil fuels - the trace elements required in battery manufacture. Toxic PFAS 'forever chemicals' imbedded in lithium-ion batteries present a dangerous source of chemical pollution that new research carried out by Jennifer Guelfo PhD of Texas Tech	Public	Object	Table 18 Issue 11, Table 18 Issue 15, Table 18 Issue 18, Table 18 Issue 29



		University and Lee Ferguson PhD of Duke University found in their peer reviewed paper published in Nature Communications 8 July 2024, threatens the environment and human health as the industry scales up. They found alarming levels of the chemicals in the environment near manufacturing plants and discovered that waste from batteries disposed of in landfills was a major pollution source. PFAS are a class of man-made compounds most often used to make products resistant to water, stains and heat. They are called 'forever chemicals' because they do not naturally break down and have been found to accumulate in humans. The chemicals are linked to cancer, birth defects, liver disease, plummeting sperm counts and a range of other serious health problems. The paper notes that few end-of-life standards for PFAS battery waste exist, and the vast majority ends up in landfill where it can leach into waterways, accumulate locally or be transported long distances. Detection of the chemicals in snow far from manufacturing plants or landfill suggests the chemicals, like BPA, easily move through the atmosphere. The study noted previous research that bis-FASI can be reused, though less than 5 per cent of lithium batteries are recycled. That could yield a projected 8 million tons of battery waste by 2040 if battery recycling is not dramatically scaled up with demand. As an accredited LPA livestock producer selling beef into the Grass-Fed market, I am very aware of the strict compliance requirements of the rules and regulations set down by Meat Standards Australia in regard to hormonal growth promotant (HGP), grain or feed containing grain, feed containing animal fats, by-product stockfeed, feed containing chemical residues within a Withholding Period (WHP) when harvested, and any livestock still within a WHP or Export Slaughter Interval (ESI) as set by APVMA or SAFEMEAT following treatment with any veterinary drug or chemical, and their slaughter for export. To meet these criteria a National Vendor Declaration (NVD) must accompany all movement of livestock and there is an obligation that I must be absolutely satisfied that I have correctly completed all parts of the NVD and that I understand that any misleading or unverified statements may result in prosecution, heavy fines or loss of my LPA accreditation thereby precluding me from trading. Australia's reputation for clean green 'food and fibre' has been built over generations on the back of good practice and strict governance. A priceless reputation second to none and envied by our competitors. Export destinations like the US, Japan, China and Europe are already very aware of the dangers of BPA in foods and packaging. If they were to get a whiff that our beef or lamb could be contaminated with PFAS, BPA or other toxins, our brand built over generations would be destroyed overnight. International public health advocates are sounding alarm bells about the need to find alternatives to the toxic chemicals and heavy metals imbedded in renewable energy components for the renewable energy transition to progress cleanly. Accordingly, there needs to be a far greater focus on the toxic contamination risks arising from BESS potentially causing leaching of 'forever chemicals' and heavy metals such as cadmium, cobalt, lead, lithium-copper, mercury, and nickel into our agricultural land, water resources and atmosphere, and also a greater focus on the associated Occupational Health & Safety risks, Intergenerational Equity for our children and grandchildren and potential elevated stock toxicity levels as a measure to protect crops, livestock and producers thereby ensuring food security for future generations. The iniquitous transition has not been properly thought through and it has far too many			
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			'unintended consequences' for it to be fit for purpose. More than likely infrastructure will be left as stranded assets since there is no satisfactory plan for where the millions of tons of dangerous battery waste will eventually end up. This nation cannot afford to let public health and food security to be undermined by this unparalleled travesty and until such time as environmental, property, and food chain protection plans have been established, I call on government to apply the precautionary principle and initiate a moratorium on all BESS applications. Renewable energy is NOT clean, NOT green, NOT zero. Ian McDonald, Walcha Grazier			
P04	Luke Tedesco	Yoogali	Date: 29th November 2025 To: Pragya Mathema Re: Development Application for Battery Storage Unit – 19 Bob Irvin Road, Yoogali I am writing to lodge a strong objection to the proposed Eku Energy battery storage facility at 19 Bob Irvin Road, Yoogali. This development carries significant and unreasonable risks to local residents, infrastructure, farmland, and the long-term character of our community. 1. Impact on Property Values and Residential Amenity Installing a large-scale industrial battery facility in what has always been a rural area will undoubtedly diminish surrounding property values. Prospective buyers are often discouraged by noise, industrial appearance, and perceived safety risks associated with high-energy infrastructure. Families who have invested heavily in the region for its peaceful environment and scenic rural landscape now face the prospect of permanent industrialisation directly on their doorstep—reducing the financial and lifestyle value of their homes. 2. Worsening Conditions on an Already Failing Road (Bob Irvin Road) Bob Irvin Road is an unsealed gravel road that already struggles under current residential, business and agricultural traffic. It generates significant dust, which spreads across neighbouring homes, crops, sheds, vehicles, and soils rainwater tanks. These dust clouds already impact residents' health, comfort, and agricultural operations. Residents are forever cleaning and washing vehicles and the interiors of their home due to the dust residue that enters the properties. Introducing large construction trucks, cranes, oversize loads, and ongoing service vehicles will escalate dust generation dramatically, further degrading air quality and making daily living increasingly difficult for those nearby. Additionally, even moderate rainfall turns Bob Irvin Road into a slippery, untrafficable track. Residents frequently experience vehicles sliding, mud build ups, poor access conditions, and long delays when the road is then re-formed. A project of this scale will amplify these issues, creating serious safety hazards for local residents and workers alike and placing additional strain on an already fragile road system. 3. Noise Pollution and Industrial Disturbance Battery storage facilities operate around the clock. Cooling fans, ventilation systems, transformers, and inverters generate ongoing mechanical noise that travels easily across open rural landscapes—particularly at night. Construction noise, including heavy machinery, reversing alarms, earthworks, and extended work hours, will further disturb the peace for months on end. This is wholly incompatible with the quiet rural lifestyle currently enjoyed by the community.	Public	Object	Table 18 Issue 11, Table 18 Issue 12, Table 18 Issue 13, Table 18 Issue 16, Table 18 Issue 19, Table 18 Issue 27

			4. Dust, Air Quality, and Broader Environmental ImpactsThe project involves extensive earthmoving, soil disturbance, and truck movements, all of which will worsen dust conditions for nearby homes.Without comprehensive, enforceable dust suppression measures, residents will face contaminated rainwater, reduced air quality, impacts on gardens and crops, and general degradation of living conditions. 5. Loss of Highly Fertile Irrigation LandThe proposed site sits on productive, highly fertile irrigation land—one of the most valuable and reliable agricultural resources in NSW. Yoogali and its surrounding districts rely on this type of land for fruit, vegetable, and cropping operations essential to the local economy. Removing this land from agricultural use for an industrial energy facility is a significant and long term loss of agriculture potential. At a time when food security and sustainable farming are more critical than ever, sacrificing irrigated agricultural land for non-agricultural private infrastructure is both short-sighted and damaging to the community's economic future. 6. Loss of Rural Character and Increased IndustrialisationThe development marks a major shift in land use from rural-residential and agricultural to industrial. This change brings high fencing, bright lighting, electrical infrastructure, increased traffic, and noise into a peaceful area.Such industrial creep threatens the long-term identity of the region, pushing residents toward an environment they never agreed to live in. ConclusionThe proposed Eku Energy battery storage facility at 19 Bob Irvin Road poses unacceptable impacts: degrading property values, worsening road safety and dust, generating noise pollution, removing valuable irrigation farmland, and permanently altering the rural character of Yoogali. For these reasons, I strongly urge the the matters in raised in this letter to be adequately addressed or reject this development application.At the very least, a more rigorous, transparent, and community-focused assessment must be undertaken before any approval is considered. Thank you for considering this submission. Sincerely, Luke & Andreha Tedesco 97 Bob Irvin roadYoogali NSW 2680 lukey.t90@gmail.com			
P05	Name withheld	Griffith, New South Wales	This horrible plan is for toxic pollution that lingers for generations - defying all the Principles of Ecologically Sustainable Development - including the Precautionary Principle and Intergenerational Equity. Hazardous Battery fires disperse microscopic heavy metals and fluorinated compounds that are highly toxic, bioaccumulate, evade detection, and leave no viable cleanup pathway - resulting in toxic wasteland and public health and safety disasters.	Public	Object	Table 18 Issue 11, Table 18 Issue 15



P06	Name withheld	Springfield, New South Wales	This insecure CCP reliant BESS plan is an open invitation for a catastrophic, sabotaging, Critical-Infrastructure attack on Australia's Electricity Grid. It's extremely treacherous that this untrustworthy Government are relying on Chinese BESS that embed CCP-manufactured, networked hardware into Australia's grid while lacking robust, transparent cyber-security requirements.	Public	Object	Table 18 Issue 28
P07	Name withheld	Hay, New South Wales	Western intelligence agencies are constantly warning that Chinese hackers actively target energy infrastructure they produce - like this unethical, insecure plan that would illogically expand our exposure - threatening national security. (PBS News, 2024 - FBI Director Christopher Wray warning)	Public	Object	Table 18 Issue 28
P08	Name withheld	Hay, New South Wales	CCP produced, toxic contaminating BESS like this unethical project are putting Australian people at extreme risk and hardship by subjecting Australia to a National Security Nightmare. Just like Reuters' confirmed undocumented communication devices inside Chinese inverters - validating fears of hidden access and sabotage capability. ("Rogue Communication Devices Found in Chinese Inverters"- Reuters, 14 May 2025)	Public	Object	Table 18 Issue 28
P09	Name withheld	Kepnock, Queensland	This plan must not be approved as Thermal Runaway Fires burn for days - billowing poisonous smoke and releasing irreversibly contaminating residue - affecting vast areas and poisoning the public. CSIRO explicitly states there is no certified method to extinguish lithium-ion battery fires, meaning failures escalate into uncontrollable thermal runaway events. CSIRO Advisory Note AN-004 – Extinguishment of Lithium-Ion Battery Fires	Public	Object	Table 18 Issue 15
P10	Name withheld	Springfield, Queensland	This as a disastrous plan as independent energy analysts describe modern renewable-battery systems as "beautifully hackable", prioritising remote control over security. (Irina Slav – Beautifully Hackable, 12 Aug 2024)	Public	Object	Table 18 Issue 28
P11	Name withheld	Harefield, New South Wales	This BESS plan is intrinsically Toxic, experimental and unsafe technology. Lithium-ion batteries are chemically unstable, release poisonous gases and persistent pollutants, and create long-term contamination risks when they fail. "Forever Chemicals' used in Lithium-ion Batteries Threaten Environment" The Guardian, 14 July 2024	Public	Object	Table 18 Issue 15
P12	Name withheld	Redbank Plains, Queensland	This BESS plan cannot be approved as it is a huge National Security Risk to Australia! Any system capable of remote updates can also be remotely disabled or manipulated, including safety systems during conflict or coercion.	Public	Object	Table 18 Issue 28
P13	Name withheld	Hay, New South Wales	We totally object to all this insecure, unethical, toxic, RUIN-A-BULL RUBBISH like this BESS, as it's environmentally destructive, won't work most of the time, is costing us \$\$\$Billions of wasted public money and making Australia a weak vassal state for China. STOP THIS NOW!	Public	Object	Table 18 Issue 11, Table 18 Issue 25, Table 18 Issue 28
P14	Name withheld	Swan Hill	The parasitic crooks pedalling and approving Intermittent, weather dependent Solar/Wind generation with bankruptingly costly BESS are completely failing the Australian people & irresponsibly destroying our country - which is blessed with far superior, natural energy resources that they are cruelly depriving us of. Who is the enabler of this torturous prioritisation of CCP control of our electricity system and the deliberate sacrificing of our once energy independent, secure country?	Public	Object	Table 18 Issue 25, Table 18 Issue 28



P15	Carol-Ann Fletcher	Somerset, Tasmania	I object and do NOT consent to this project for the following reasons: The fact that this project and other similar renewable projects are connected to potentially flammable and dangerous high voltage transmission lines and towers. For example: Just over sixteen years ago, on the 7th of February 2009, 6 out of the 11 Black Saturday fires that took 173 lives and did untold damage to property, livestock and wildlife, were started by high voltage transmission lines. This was such a devastating, large scale catastrophe that a Royal Commission was called to investigate why these fires happened and how they could be prevented in the future - VBRC_Summary_PF.pdf, Remembering Black Saturday - 15th anniversary Emergency Victoria. Cameron Stuart of Britannica.com on the 20th of January 2025 (Black Saturday bushfires Causes, Deaths, Map, & Location Britannica), described the horrific, catastrophic, devastating Black Saturday fires in detail: "On February 7 Victorians were told to brace for the "worst day" in the state's history: weather forecasters warned of a record heat wave with temperatures soaring to 115.5 °F (46.4 °C), combined with gale-force winds of up to 56 miles (90 km) per hour. That day more than 47 major fires erupted across the state, 14 of them claiming lives or causing significant damage. The most deadly conflagration, known as the Kilmore East fire, which claimed 121 lives, was sparked by a faulty power pole near the township of Kilmore East, 37 miles (60 km) north of Melbourne. The flames quickly jumped a major highway and roared into a forest, where they turned into a giant fireball, dwarfing the resources of local firefighters, who could only flee in its path. Aided by steep slopes and powerful winds, this fire raced through a series of townships, including Kinglake (where 38 people died), Strathewen (27 perished), and St. Andrews (12 were killed), catching residents by surprise and trapping many in their homes. Some sought to escape by car as the fires approached, but dozens died on the roads as they were overtaken by the fire, which leapt 330 feet (100 metres) above the tree line and was powerful enough to kill with radiant heat from nearly 1,000 feet. Late in the afternoon a sudden change in wind direction pushed the fire to the northeast, bringing new towns into its path. A parallel fire, known as the Murrindindi fire, also blew to the northeast, swallowing the unsuspecting tourist town of Marysville, where 34 people lost their lives. Fire experts said that these two fires alone released energy equivalent to that of 1,500 atomic bombs like the one dropped on Hiroshima, Japan." Fire experts said that these two fires alone released energy equivalent to that of 1,500 atomic bombs like the one dropped on Hiroshima, Japan." Not only are lithium battery factories extremely dangerous, but they are also deadly Lithium battery factory fire kills 22 in South Korea. In California, it was reported that it was PG&E's powerlines that had sparked the recent horrific and deeply devastating fires - , How Did The California Wildfires Start? Officials Weigh Power Lines, Fireworks—And Arson (forbes.com), PG&E's Lengthy Record of Starting Wildfires, and What the Company Is Doing to Change It (californialocal.com) and in fact, PG&E was found to be responsible for the worst fire in California history - the Camp Fire (Customers of PG&E, other utilities pay billions for wildfire prevention- CalMatters) "POWER LINES AND ELECTRIC INFRASTRUCTURE ----- Multiple residents of Altadena sued Southern California Edison on Monday, alleging the Eaton Fire was started by the company's electrical equipment. The lawsuits cite eyewitness reports of sparking power lines. The company has pushed back against the theory, saying in a statement Sunday its "analysis shows no interruptions or operational/electrical anomalies in the 12 hours	Public	Object	Table 18 Issue 2, Table 18 Issue 29
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		prior to the fire's reported start time until more than one hour after the reported start time of the fire." One of the filed complaints reportedly alleged, "there is clear evidence from video footage, photographs, and witness accounts that the fire was caused by electrical equipment operated by Defendants Edison International and Southern California Edison." Power infrastructure has been a leading cause of fires in California in the past—with eight of the state's 20 most destructive fires having power-related causes—and the amount of fires started by equipment has grown recently, The New York Times reported." Interestingly enough,, prior to the recent wildfires in California, PG&E had a mitigation plan, which as you can very plainly see did NOT stop the extremely horrific, deadly and destructive California Wildfires from happening, much less actually put them out, and so now, what will happen to all the taxpayers who lost their homes, livelihoods, pets, etc because of PG&E's powerlines sparking the tremendously fast moving fires throughout Southern California, doing untold damage, along with taking lives? (TN13803_20240402T12956_PGE's_2025_Wildfire_Mitigation_Plan_Update.pdf). And then there is the astronomical and, in my opinion, completely irresponsible and unjustifiable cost of these renewables: Stated in the 2025 SUBMISSION TO CSIRO'S DRAFT 2024-25 GENCOST REPORT.pdf "3.0 Capital Cost Factors GenCost defines future capital cost factors 6 for various generation and storage technologies. It observes recent years when freight and raw materials rapidly increased costs. Its use of a 2006 to 2009 price bubble to show prices returned to previous expectations is not entirely realistic since the industry was much smaller at that time and basic power costs affecting manufacturing have been recently escalating much more rapidly. GenCost's contention that "...inflationary pressures for most technologies and the cost of some...such as solar PV and batteries are falling again" is contestable. We believe this is only a small part of the story. In our view: • Renewables are now relatively mature technologies after 30 years of intensive development, thus making assumptions of substantial future cost decreases too optimistic. • Labour costs have been hit with high inflation recently; these costs are not going to go down. • The dominance of one country, China, in the entire supply chain for renewables makes higher future prices likely as competition is stifled and hence deserves more careful analysis. • Increasing demand in global markets may cause price rises. • Shipping costs are being hit by increasing fuel costs. • Operating costs of renewables are greater than anticipated, as the UK and Germany have found. • Subsidies for the cheapest form of electricity generation, which surely should not still be necessary) could be reduced, adding to manufacturing costs. Compounding the uncertainties in predicting future costs are: a. realisation that the extraordinary costs involved are not affordable nor sustainable, b. the negative impact on national economies from unreliable intermittent power, c. many countries, including the largest, doing nothing or very little, to meet Net Zero goals, d. the withdrawal of the US from the Paris Accord, e. the mounting market failure of EVs, f. recognition that the science of climate catastrophism is overstated and overhyped, and g. the severe environmental impacts of solar and wind generation installations being regarded as unacceptable. 6 GenCost Section 5 P3"			
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			This report/submission was written by 19 independent engineers and professionals who are all well qualified to comment on the true costs of implementing the government's Net Zero 2050 policy for the National Electricity Market (NEM): Professor Michael Asten, PhD, BSc (Hon), BLitt, FRAS Ben Beattie, BE(Elec), CPEng RPEQ Jeremy Barlow, BE, MBA, FAIMM William Bourke, BSc, BEng (Aero), MEng Sc. Michael Bowden IEng (Electronics-UK); CPL; CQP Rafe Champion, MSc (History and Philosophy of Science), B.Ag.Sc. (Hons) Arthur Day, PhD, BSc (Hon) Paul R C Goard, BSc, Physicist, M.A.I.P., M.I.of P., M.A.I.E., M.A.M.O.S. Peter J F Harris, BEng, Dipl. Prod Eng. Professor Emeritus Aynsley Kellow, BA(Hons) PhD Bryan Leyland, MSc (Power systems) DistFEngNZ, FIMechE, FIEE (rtd) John McBratney, B. Tech (Electronic Engineering), formerly MIE Aust, MIEEE John McLean, PhD Paul Miskelly, BE MEngSc Electrical Engineering Grant Piper, BE Aero UNSW, FRAeS, Chair NREN Peter Ridd, PhD, BSc James R (Jim) Simpson, (Ret., former business unit manager, OTC & Telstra) Bill Stinson, Dip.Tech(Building), B.AppSc.(Building), Dip Labour Relations & Law, Cert. Design Sc. (Facilities) James Taylor, PhD, MSc, BEng Elect (Hon), PEng, FCASI In addition, developers, NOT landowners, farmers or people who host renewables should be made to not only pay full decommission costs of these renewables, they also should be held solely responsible, along with the planning commission and government to ensure that no electrical bushfires breaks out of the renewables, high voltage transmission lines and towers, wind turbines, Battery storage units, solar "farms" (farms is a misnomer indeed) and any other energy infrastructure, NOT landowners, farmers or people who host renewables. https://braddonbeagle.com/do-we-have-a-do-as-i-do-or-do-as-i-say-government-you-decide/			
P16	Name withheld	Leeton, New South Wales	There are no benefits whatsoever from this ruinable junk that's a poisonous curse to the public, our essential energy security, food security, our economy and sovereignty. The predatory vested interests are manipulating the market - profiteering at our expense - while we all suffering the Government inflicted Cost of Living Crisis - caused by intermittent RenewaBULLs and BESS that profits from price volatility and arbitrage, distorting electricity markets and increasing costs for consumers.	Public	Object	Table 18 Issue 22, Table 18 Issue 24, Table 18 Issue 29
P17	Name withheld	Coolah, New South Wales	Loading shipping containers with lithium ion batteries will be a toxic time bomb. Unrecyclable, environmentally destructive mining process for materials for BESS, diesel generators required to ensure batteries are cooled, thermal runaway risk, community expected to fight any fire in this project without adequate resources, training or PPE. This project is designed to profit the project owner. This project is not designed to preserve the environment or provide reliable and affordable electricity to consumers.	Public	Object	Table 18 Issue 4, Table 18 Issue 15, Table 18 Issue 22, Table 18 Issue 23
P18	Name withheld	Coolah, New South Wales	Another foreign developer seeking to profit from energy consumers and taxpayers while destroying our environment. So these rent seekers reckon this project "has the storage capacity to serve over 88 per cent of daily electricity demand from the Griffith LGA". A quick search (yep...using AI...there is no law against using AI, bet ECU Energy use AI) indicates that the Griffith population is 26994, and industries include the poultry group Baiada and wineries Casella and De Bortoli. How will this BESS provide 88% of daily electricity demand during periods when solar generation is low due to cloudy weather? Or wind droughts? Or the combination of wind droughts and low solar periods? Or will the diesel generators be going flat out during these periods? For how many years will this BESS be effective? What happens to the obsolete	Public	Object	Table 18 Issue 5, Table 18 Issue 23, Table 18 Issue 29

			batteries? Where do the batteries come from? How are the raw materials mined and where from? How many diesel generators will be on site? How much diesel will be used in the day to day operation of the BESS? How long will it be before Baiada, Casella and De Bortoli find the prohibitive costs of electricity mean that their businesses are no longer sustainable? How many residents of the Griffith LGA trust this BESS to supply 88% of their electricity needs or have they already installed their own rooftop solar and domestic batteries and diesel generators?			
P19	Name withheld	Lancefield, Victoria	I Object on the following grounds: • It is destructive to native flora and fauna and harmful to the public; • Construction will leave a legacy of land destruction that is unlikely to be rectified by the builder; • It is an abomination on the natural landscape; • It is part of a system that costs billions, does not work reliably and attempts to solve a problem that does not exist, in other words useless and irresponsible use of public funds; • All such infrastructures should be built at developer's expense, NOT on public funds. We are told wind and solar are the cheapest, well prove it, remove all subsidies - do not build this system on public funds; • The TOTAL cost has not been verified by independent experts; • There is NO verified scientific basis for reduction of CO2 in the atmosphere so this project is a total waste of public money, along with all other such projects. There is in fact reliable verifiable scientific proof that CO2 is beneficial to plant life and by extension to human life on earth.	Public	Object	Table 18 Issue 5, Table 18 Issue 9, Table 18 Issue 19, Table 18 Issue 22, Table 18 Issue 25, Table 18 Issue 29
P20	Name withheld	Leeton, New South Wales	Destructive BESS plans like this pathetically incapable, purveyor of poison wrongly relies on heavy taxpayer subsidies - financially unsustainable without them - shifting risk from the fake green carpetbaggers to the public and locking in long-term fiscal exposure and economic suicide for Australia.	Public	Object	Table 18 Issue 25
P21	Name withheld	Coolah, New South Wales	This project is NOT in the public interest. This project will only benefit Macquarie Bank and their foreign joint venture partner. This project will ensure electricity consumers have unreliable, unaffordable electricity. Shipping containers filled with lithium ion batteries is not clean or green, it is unrecyclable toxic waste that will contribute to fire risk in this community and environmental destruction.	Public	Object	Table 18 Issue 11, Table 18 Issue 15, Table 18 Issue 17, Table 18 Issue 29
P22	Name withheld	Horsham, Victoria	The use of polyurethane insulation and panel materials in battery enclosures raises serious concerns, as polyurethane is combustible and releases highly toxic gases when exposed to fire.	Public	Object	Table 18 Issue 15
P23	Name withheld	Barham, New South Wales	I object to this proposal because lithium-ion battery fires are known to enter thermal runaway, producing fires that are extremely difficult to extinguish and can continue or reignite long after initial suppression. How will this be addressed?	Public	Object	Table 18 Issue 15
P24	Name withheld	Cunninyeuk, New South Wales	This hazardous, toxic contaminating BESS is nothing but a Ticking-Time-Bomb that will result in life-threatening, poisonous fallout from battery fires which threatens Public Health and Safety, seriously risks irreversible contamination of farmland, fisheries, and water catchments, with long-term consequences for generations to come.	Public	Object	Table 18 Issue 11, Table 18 Issue 15, Table 18 Issue 16
P25	Name withheld	Cunninyeuk, New South Wales	Australia's manufacturing capacity has been sacrificed by the unreliable, unaffordable, weather dependent RUIN-A-BULL EXPERIMENT! The collapse of Australia's only battery manufacturer seemed designed to fail - leaving our nation fully dependent on imports - predominately from our most hostile enemy - wrecking our sovereignty and security. Australian Financial Review, 2025	Public	Object	Table 18 Issue 29



			"Crying Shame: Inside the Demise of Australia's Only Battery Maker"			
			THIS BESS IS OUR ENEMY!			
P26	Name withheld	Torquay, Victoria	Firefighting responses to battery energy storage fires often require large volumes of water, which can become contaminated with PFAS and other hazardous substances. Who will dispose of this waste?	Public	Object	Table 18 Issue 18
P27	Name withheld	Barham, New South Wales	PFAS contamination from firefighting foams is persistent in the environment and poses a long-term risk to soil, groundwater, and agricultural land surrounding the site.	Public	Object	Table 18 Issue 15
P28	Name withheld	Swan Hill	Where's the credible defence against BESS sabotage? Government approvals of unethical, insecure CCP produced components shows no public threat modelling, no independent cyber testing, and no sovereign control requirements for BESS assets.	Public	Object	Table 18 Issue 26, Table 18 Issue 28
P29	Name withheld	Moulamein	Lithium-ion battery fires are documented to burn at very high temperatures, making conventional firefighting methods largely ineffective and placing emergency responders at risk.	Public	Object	Table 18 Issue 4
P30	Name withheld	Romsey, Victoria	Battery fires produce toxic smoke plumes that may include fluorinated compounds, carbon monoxide, and fine particulates, which present a health risk to nearby residents.	Public	Object	Table 18 Issue 16
P31	Name withheld	Swan Hill	Repetitive, catastrophic BESS Thermal Runaway FIRES demonstrate systematic failure. Multiple fires at the same facilities prove these events are not rare accidents, but predictable outcomes of flawed technology and weak regulation. "Massive Green Battery Plant Catches on Fire Again" Watts Up With That, 20 Feb 2025	Public	Object	Table 18 Issue 2, Table 18 Issue 15, Table 18 Issue 26
P32	Name withheld	Romsey, Victoria	The long-term environmental consequences of PFAS entering soil or groundwater are significant, as these chemicals do not break down naturally and are extremely difficult to remediate.	Public	Object	Table 18 Issue 15
P33	Name withheld	Moulamein	Lithium-ion battery fires are documented to burn at very high temperatures, making conventional firefighting methods largely ineffective and placing emergency responders at risk.	Public	Object	Table 18 Issue 4
P34	Name withheld	Moulamein	Polyurethane-based construction materials increase the overall fire load of the facility and contribute to more toxic by-products during combustion.	Public	Object	Table 18 Issue 15
P35	Name withheld	Swan Hill	Biodiversity loss and human harm is totally predictable from this poisonous BESS plan. Post-fire testing shows seriously detrimental human health impacts, wetlands and ecosystems accumulate heavy metals, threatening wildlife and conservation areas. CBS News / SFGate / Local News Matters, Feb 2025	Public	Object	Table 18 Issue 9, Table 18 Issue 15, Table 18 Issue 16
P36	Name withheld	Moulamein	Lithium-ion battery systems have a documented history of fires that require days or weeks of monitoring due to the risk of re-ignition.	Public	Object	Table 18 Issue 4
P37	Name withheld	Shire of Gannawarra	The proposal lacks sufficient detail on how PFAS-free firefighting systems will be guaranteed and enforced over the life of the project.	Public	Object	Table 18 Issue 29
P38	Name withheld	Moulamein	The rural location of the site raises questions about whether local fire services have the specialist equipment and training required for large-scale battery fire incidents.	Public	Object	Table 18 Issue 1, Table 18 Issue 4
P39	Name withheld	Moulamein	Battery electrolyte leakage during a fire or system failure can contaminate soil and water with hazardous substances, impacting surrounding farmland.	Public	Object	Table 18 Issue 11, Table 18 Issue 15
P40	Name withheld	Swan Hill	It's completely irresponsible that dodgy developers like this and complicit, brain-dead Approving Bodies are downplaying POISONOUS RENEWABULLS - THE ASBESTOS OF THE FUTURE!	Public	Object	Table 18 Issue 15



			As BESS fires release hydrogen fluoride and metal particulates, posing respiratory, neurological, and cancer risks, serious questions need to be asked about the very real, life threatening consequences of these treacherous plans.			
P41	Name withheld	Shire of Gannawarra	Lithium-ion battery fires are not comparable to conventional electrical fires and cannot be assumed to be manageable using standard response procedures.	Public	Object	Table 18 Issue 4
P42	Name withheld	Barham, New South Wales	Once PFAS contamination occurs, affected land may be unsuitable for agricultural or residential use for extended periods.	Public	Object	Table 18 Issue 11, Table 18 Issue 15, Table 18 Issue 16
P43	Name withheld	Swan Hill	The application does not adequately address how toxic residues from burnt polyurethane and battery materials will be removed and disposed of safely.	Public	Object	Table 18 Issue 6
P44	Name withheld	Moulamein	Prolonged battery fires can result in ongoing air quality impacts, which have not been sufficiently modelled for this site.	Public	Object	Table 18 Issue 15
P45	Name withheld	Moulamein	As the RenewaBULL Rort is a complete failure with rotten carpetbaggers sending Australia to ruin - this toxic BESS plan has no place in an ESSENTIAL, INDEPENDENT, SECURE, RELIABLE, AFFORDABLE, AUSTRALIAN POWER SYSTEM BASED ON AUSTRALIAN COAL & an AUSTRALIAN NUCLEAR POWER INDUSTRY.	Public	Object	Table 18 Issue 29
P46	Name withheld	Swan Hill	The use of industrial battery storage introduces hazardous materials into a rural area that has not historically been exposed to such risks.	Public	Object	Table 18 Issue 15
P47	Name withheld	Moulamein	The use of industrial battery storage introduces hazardous materials into a rural area that has not historically been exposed to such risks.	Public	Object	Table 18 Issue 15
P48	Name withheld	Swan Hill	This BESS plan demonstrates reckless disregard for safety. Proceeding despite known hazards as the DPHI and IPCN are irresponsibly doing - constitutes reckless disregard for human life, bordering on a conscious violation of safety rights. Even Fire authorities acknowledge BESS standards and codes lag deployment, turning communities into unwilling test subjects for life threatening, dangerous experiments they don't know how to handle.	Public	Object	Table 18 Issue 15
P49	Name withheld	Swan Hill	Fire suppression systems that rely on chemical foams increase the likelihood of PFAS entering the environment if containment systems fail. Who will secure this BESS.	Public	Object	Table 18 Issue 15
P50	Name withheld	Shire of Gannawarra	The proposal does not clearly outline how groundwater monitoring will be conducted to detect PFAS or other contaminants following an incident.	Public	Object	Table 18 Issue 6
P51	Name withheld	Binnaway, New South Wales	I would like to begin by acknowledging the farmers of the land within our great nation of Australia today. I pay my respects to Australia's past, present and future farmers who have and will continue to battle setbacks such as renewable energy destruction, drought, floods, vermin plagues, diseases, and government policy, all so they can provide Australia with food and fibre. I acknowledge that these setbacks come at a high price of mental health, and many have taken their lives as a result due to such pressures. I extend this respect and am thankful for the sacrifices those within the agricultural industry make in order to provide Australia with the essentials; I acknowledge the agricultural industry as the backbone of our nation We need to unite and fight these developers and the Australian government for forcing this upon us. CONFIDENTIAL: I object because BESS projects are too damaging to the communities, landscapes, environment and animals. what happens when they catch fire? How will the noise from BESS impact livestock and native wildlife? Not only are they dangerous, they are an absolute eye-sore. Let's	Public	Object	Table 18 Issue 4, Table 18 Issue 9, Table 18 Issue 12, Table 18 Issue 15, Table 18 Issue 16, Table 18 Issue 19, Table 18 Issue 29



			put these closer to the cities so all the NIMBYs can marvel at what their vote has given them. Leave our landscapes alone and our government needs to do better. Noting the Livestock Producer Assurance accreditation application, they recognise and acknowledge that agricultural land WILL BE POISONED by batteries and solar panels. Given this significant fact, these projects should NOT go ahead as they compromise our food security and environmental safety.			
P52	Name withheld	Barham, New South Wales	Battery degradation over time increases the likelihood of internal faults, heat generation, and eventual fire risk as the system ages.	Public	Object	Table 18 Issue 2, Table 18 Issue 15
P53	Name withheld	Moulamein	Battery degradation over time increases the likelihood of internal faults, heat generation, and eventual fire risk as the system ages.	Public	Object	Table 18 Issue 15
P54	Name withheld	Balgowlah, New South Wales	This infrastructure is too dangerous to the neighbouring properties and communities. BESS factories are a significant fire risk. BESS factories cause significant noise pollution. Stop destroying rural land and landscapes with these toxic and destructive projects. I object to this project.	Public	Object	Table 18 Issue 12, Table 18 Issue 15
P55	Name withheld	Barham, New South Wales	The environmental assessment does not adequately consider the long-term consequences of a single major fire event.	Public	Object	Table 18 Issue 6
P56	Name withheld	Binnaway, New South Wales	I object to the Griffith BESS project. Why is our government forcing FIRE HAZARDOUS infrastructure and UNRELIABLE energy on our nation at the expense of rural Australia?!? Save the land that supports and produces food and fibre for Australia. Put these elsewhere! Stop bowing down and bending over to the EVIL powers of the WEF. These projects are destroying rural Australia and will send future generations broke!!	Public	Object	Table 18 Issue 1
P57	Name withheld	Moulamein	PFAS contamination can spread well beyond the site boundary through water movement, rainfall, and soil transfer.	Public	Object	Table 18 Issue 15
P58	Name withheld	Mendooran	I would like to begin by acknowledging the farmers of the land within our great nation of Australia today. I pay my respects to Australia's past, present and future farmers who have and will continue to battle setbacks such as renewable energy destruction, drought, floods, vermin plagues, diseases, and government policy, all so they can provide Australia with food and fibre. I acknowledge that these setbacks come at a high price of mental health, and many have taken their lives as a result due to such pressures. I extend this respect and am thankful for the sacrifices those within the agricultural industry make in order to provide Australia with the essentials; I acknowledge the agricultural industry as the backbone of our nation We need to unite and fight these developers and the Australian government for forcing this upon us. I object because this project will cause permanent toxic damage to the natural environment and impact those around it. There will be too many toxic chemicals entering the landscapes and environment as a result of this project.	Public	Object	Table 18 Issue 15
P59	Name withheld	Barham, New South Wales	In addition The potential impact on biodiversity corridors and habitat connectivity has been under-examined. There is insufficient explanation of how hazardous emissions will be filtered or treated before release. The lack of transparent modelling on chemical transport pathways undermines the environmental risk assessment. The application fails to provide a dedicated community health impact assessment for potential toxic exposures.	Public	Object	Table 18 Issue 6



P60	Name withheld	Mendooran	CONFIDENTIAL: I would like to begin by acknowledging the farmers of the land within our great nation of Australia today. I pay my respects to Australia's past, present and future farmers who have and will continue to battle setbacks such as renewable energy destruction, drought, floods, vermin plagues, diseases, and government policy, all so they can provide Australia with food and fibre. I acknowledge that these setbacks come at a high price of mental health, and many have taken their lives as a result due to such pressures. I extend this respect and am thankful for the sacrifices those within the agricultural industry make in order to provide Australia with the essentials; I acknowledge the agricultural industry as the backbone of our nation We need to unite and fight these developers and the Australian government for forcing this upon us. This battery energy storage system is of a major fire risk and will put significant strain on local and rural firefighting services. These local firefighting services are not equipped with the resources or man-power to manage emergency fires for when they do break out at this site. Why should the broader community risk their lives and step up to fight fires for infrastructure that they never wanted there in the first place?	Public	Object	Table 18 Issue 4
P61	Name withheld	Lake Albert, New South Wales	STOP wasting \$\$\$Billions of RUIN-A-BULL RORT taxpayer funded subsidy dollars - trying to kill us - POISONING OUR BIODIVERSITY, LIFE SUSTAINING SOIL/WATER & US - THE PUBLIC!!We all know that RenewaBULLs ARE THE ASBESTOS OF THE FUTURE!!This filthy, Life-threatening, highly toxic Fire hazard BESS with poisonous smoke that cannot be contained & irreversible residue impacts - is an incapable, extremely costly - taxpayer subsidised, short term, fake green scam.Dodgy carpetbaggers, greedy generators & predatory TransGrid are MANIPULATING THE MARKET as part of this parasitic, poisonous, Fake Green RenewaBull SOLAR, WIND, BESS Energy Poverty SWINDLE that's all about ENERGY POVERTY & a CATASTROPHIC PUBLIC HEALTH & SAFETY DISASTER!Nothing about this BESS BOMB will lead to grid stability - it's all about reliance on the hostile CCP's NATIONAL SECURITY NIGHTMARE that's sabotaging the GRID!WE DO NOT CONSENT TO THIS INSECURE, CCP RELIANT, LITHIUM BESS & the rest of the RECKLESS RenewaBULL RUBBISH LITTERING NSW/AUSTRALIA & WRECKING OUR CHILDREN'S FUTURE.An immediate moratorium is essential - ensuring far superior COAL POWER is prioritised as well as a Nuclear Power Industry for the future - with minimal environmental footprint.STOP SABOTAGING AUSTRALIA!!	Public	Object	Table 18 Issue 15, Table 18 Issue 25, Table 18 Issue 28, Table 18 Issue 29
P62	Name withheld	Coonabarabr an	BESS is dangerous and brings hazards to the project and community. The noises from this BESS project will have negative impacts on the nearby livestock and wildlife. These impacts will be evident in not only everyday life for the animals, but also during breeding and birthing cycles. BESS carries significant fire risk.	Public	Object	Table 18 Issue 12, Table 18 Issue 15
P63	Name withheld	Coonabarabr an	BESS factories are destroying the landscapes and significantly devaluing residential, agricultural and commercial properties within rural communities. Nobody would want to live anywhere near this heap of fire-causing garbage. Nuclear MUST be explored. I OBJECT to the BESS and ALL renewable projects that are proposed for Australia I object to the Griffith BESS. Leave rural Australia ALONE!	Public	Object	Table 18 Issue 15, Table 18 Issue 16, Table 18 Issue 19, Table 18 Issue 27
P64	Stan Moore	Goulburn	These batteries last on average 9 years only and therefore have to be replaced every 10 years. This will ensure the price of electricity to consumers will remain high to pay for the infrastructure.	Public	Object	Table 18 Issue 11, Table 18 Issue 15, Table 18 Issue 17



			Lithium ion batteries have a propensity to catch fire and when fires happen they produce very toxic gases and dangerous chemicals that pollute the countryside and and water.			
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