



SolarCitizens

A community voice for cleaner energy and transport

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Australian Energy Market Commission

Level 15, 60 Castlereagh Street
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The Pricing Review: Electricity Pricing for a Consumer-Driven Future

Thank you for the opportunity to make a submission to the Draft Report titled '*The pricing review: Electricity pricing for a consumer-driven future*'.

Solar Citizens is an independent charity working to bring down bills and reduce carbon emissions by growing renewable energy and clean transport. Established in 2013, we have grown to have more than 200,000 active supporters, and we represent the 10 million Australians living in homes powered by rooftop solar, or who have adopted clean transport; and the many more who remain locked out of consumer energy resources (CER).

Overall, Solar Citizens supports the Australian Energy Market Commission's (AEMC) stated objective of developing a pricing framework that: strengthens retail competition and engagement; enables consumers and their agents to access and capture the value of flexibility and CER; and reduces total system costs over time, consistent with the National Electricity Objective (NEO) and National Energy Retail Objective (NERO).

However we are concerned about the proposal to increase fixed charges for all energy consumers, under Recommendation 5: ***"Amend the rules to focus network tariff design on efficiency, supporting a lowest-cost grid and a fairer sharing of costs among consumers"***.

This proposal is outlined on page 36 of the Draft Report under the heading "*Network tariffs: What does good look like?*" and includes the following detail:

- *"We expect the fixed charge will recover more of each network's revenue requirement than it does today."*
- *"We like fixed charges because they have a limited impact on customers' decisions."*

- *“When customers are deciding to heat their home, buy a new television or install solar panels, the fixed charge should not influence their decisions. This helps customers make good decisions.”*
- *“Transitioning towards network tariffs that have a larger fixed charge component will help ensure that consumers can make the best use of network infrastructure to power their homes and businesses and to send power back to the grid. In the longer-term this will create the lowest cost electricity system.”*

This submission addresses these concerns and answers Question 5 as stated in the Draft Report:

“Do you consider that the proposed reforms would be effective in delivering more efficient network tariffs and better promote the long-term interests of consumers than the existing rules? If not, are there different approaches that would work better?”

We understand Recommendations 5 and 6 to be closely linked, with Recommendation 6 setting out how the proposed pricing changes would be put into practice: *“Amend the rules to ensure networks design tariffs for energy service providers, rather than directly for customers, to promote more flexible and innovative retail offers.”*

This submission includes concerns raised by our supporter base, and direct quotes from rooftop solar owners and those concerned about the cost of living implications of the Draft Report. We also draw on independent modelling from Green Energy Markets to substantiate these cost of living impacts. Over the past three weeks, 119 of our supporters have written to us directly to share their concerns, and 1,534 of Solar Citizens supporters have made their own submission.

Solar Citizens does not support Draft Recommendations 5 or 6 proceeding – a position shared by other organisations and experts, as well as over 1,600 Solar Citizens supporters and solar owners from across the nation.

We welcome the opportunity to further discuss any aspect of our submission.



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Winners and Losers

Solar Citizens does not consider the proposed reforms to be in the long-term interests of consumers. Shifting to tariffs with a larger fixed charge component would reduce households' ability to lower their electricity bills through efficient energy use, and would shift costs onto low-income households, and consumers who have invested in rooftop solar and batteries.

High electricity users would benefit the most from tariffs with a larger fixed charge component and smaller variable/ volumetric charge component (network charges that are paid based on electricity consumption), while distribution network businesses would benefit from more predictable cost recovery from consumers in the long run.

In contrast, low electricity users and solar and battery households would face higher unavoidable network costs and reduced ability to manage their bills. This raises serious equity concerns and contradicts existing network price signals, while discouraging consumer participation in the energy grid and disincentivising private investment in CER including rooftop solar and batteries.

Equity risks

While the AEMC frames its Draft Report as promoting a “*smarter, fairer*” pricing framework that ensures all consumers “*share system costs equitably*”, the proposed shift toward tariffs with a larger fixed charge component risks doing the opposite in practice.

The Draft Report emphasises equity and a “*fairer way of sharing costs among consumers*”, and commits to detailed customer impact analysis to understand how different pathways affect different households. **However the Draft Report does not include any modelling, data or evidence of how the increased fixed charges would benefit consumers or improve equity.**

Independent modelling¹ shows the AEMC's proposed reforms would worsen outcomes for low-income households while providing bill savings for high-income households.

This analysis models the immediate, economic impact of higher fixed charges using representative household types, and draws the following conclusions:

- **Low-income, low energy-use households would pay a lot more** – annual electricity bills are estimated to increase by \$127 to \$217 under the AEMC proposal.
- **Median households would pay more** – the estimated annual bill increases for median households range from \$15 to \$101 per year.
- **High-income, high energy-use households would pay a lot less** – the winners in this scenario, with annual bill savings of between \$791 to \$1,401.

¹ Modelling provided by Tristan Edis, Green Energy Markets. [Consumers face five-fold hike in network charges under regulator plan to take from the poor, and give to the rich \(2026\) Renew Economy](#)

A number of Solar Citizens supporters have written to tell us how higher fixed charges would impact them, including a supporter from Victoria who said: *“I’m 52 and stuck on a disability pension paying \$600 a week for rent so any increase in bill will be passed directly down the line and I stand to be homeless which is now illegal in Victoria”.*

Chris, a retiree from NSW said: *“I once had rooftop solar and that was economically and environmentally beneficial. I now live in a retirement village where I am not permitted to install rooftop solar. I am locked into high rates and fixed charges and I can do nothing about that.”*

Another supporter from Victoria shared their concerns: *“I have rooftop solar, installed about 3 years ago using a loans scheme after purchasing my first home at 50. I am a single mother of 2 kids who can’t afford to leave home and am lower income. Raising the service charges feels very unfair and will have a very big impact on my financial wellbeing.”*

Overall, this modelling shows that the proposed changes would **shift costs away from high electricity users and onto lower-consuming, lower-income households**, contrary to the Draft Report’s equity framing. This raises serious concerns about fairness, affordability and the long-term interests of consumers.

Risks to solar households

Consumer energy resources reduce network costs by lowering peak demand, reducing reliance on the grid at critical times, and by supplying energy closer to where it is consumed². These outcomes have been enabled by more than \$25 billion of private investment by Australian households in rooftop solar to date³. Households have made (and are continuing to make) these private investments on the reasonable expectation that reducing their reliance on the grid and contributing to lower peak demand would result in lower electricity bills.

Increasing fixed network charges undermines that premise. It extends payback periods, cuts household bill savings, and reduces the return on investment of CER assets. This is not what solar and battery owners signed up, and it’s unfair to introduce these changes now.

The independent modelling⁴ shows that overall, higher fixed charges would **reduce the financial benefits of solar and batteries by around 25–33 per cent**. In many cases, this would push solar and battery payback periods beyond the typical 10 years.

A supporter with rooftop solar shared their story in response: *“I’m an aged care pensioner who chose to spend a considerable amount of my superannuation funds on investing in solar panels*

² [Residential electricity price trends report](#) (2024) AEMC

³ [Small-scale installation postcode data](#) (accessed 2026) Clean Energy Regulator: *Applying typical industry cost figures suggests that households and small businesses have invested over \$25 billion of private capital to install 4.2 million solar installations to date.*

⁴ See 1

to both reduce my living expenses in future & help with Australia's shift to renewable energy transition. Now it's proposed to charge me with additional taxes for poles & wires. This impacts my standard of living and ability to warm & cool my house which is becoming more important for my health as I age. Constant electricity price changes make it very hard for people like me to plan for a secure financial future. This change will act as a deterrent to more households obtaining solar panels and leaves me unsure whether to buy a small battery like I have been considering."

Switching to tariffs with a larger fixed charge component would put electricity pricing rules at odds with other government programs that aim to encourage CER investment and policies to encourage households to use less energy and shift their demand outside of peak periods. If the proposed tariff change was to go ahead, it could hinder progress towards the objectives of the Federal Small-Scale Renewable Energy Scheme (SRES), Cheaper Home Batteries Program, and Solar Sharer Offer (SSO) – to name a few.

Garth, a homeowner with solar, battery and an EV said: *"While the current government is encouraging people through subsidising various renewable in house energy creation it seems an absurdity that an electricity supervising board is discouraging the very same people."*

Australian households have invested enthusiastically in rooftop solar and battery storage. This has reduced reliance on the electricity network at key times of the day and throughout the year. The Institute for Energy Economics and Financial Analysis (IEEFA) finds that during summer months, an 8 kilowatt (kW) solar system paired with 10 kilowatt-hour (kWh) of battery storage can eliminate a typical household's average daily peak demand across all capital cities, while still leaving spare capacity for export.⁵

Solar and battery households also make the network cheaper for everyone. By reducing demand during peak periods and supplying energy closer to where it is consumed, they lower the need for costly network augmentation and additional transmission infrastructure.

Currently solar and battery owners pay the same fixed network charges as other consumers, but pay lower volumetric network charges (which are calculated based on grid consumption). Solar Citizens' position is that **it is reasonable that these households pay lower network charges overall** as they rely less on the network day to day, and are helping to mitigate the need for costly network upgrades.

A solar owner from Adelaide said: *"Those of us who generate electricity to send to the grid alleviate the need for building additional power stations. We who have a battery reduce the power sent to an overwhelmed grid when it's not needed. We have paid and helped twice over. Now the government wants to hit us with higher bills?"*

⁵ [A focus on homes, not power plants, could halve energy bills](#) (2025) IEEFA

Anne, a supporter from Queensland said *“Home owners are investing in keeping the power grid operating so should not be penalised by having to pay higher infrastructure costs. We are helping to subsidise grid maintenance that should have been done years ago.”*

The evidence clearly shows that rooftop solar, backed by storage and paired with demand-side flexibility such as energy efficiency and peak demand reduction measures – have the potential to unlock billions of dollars in savings not just for solar owners but for all energy consumers – by helping to avoid the need for costly grid-scale investments and driving down wholesale energy costs.

The AEMC itself has recognised these benefits, noting in its 2024 Residential Electricity Price Trends Report that “the effective use of CER can lower system costs for all households by reducing the need for additional network investment to meet peak demand, and reducing the risk of spikes in wholesale prices.”⁶

However, it’s solar and battery owners who stand to lose the most from this proposal.

Robert, a solar and battery owner emailed us to share his concerns: *“I invested my hard earned savings in solar panels and later into batteries. I hoped that it would be a worthy investment both for me and for the environment, and even for the grids and systems. Now, I wonder?!”*

Green Energy Markets’ modelling illustrates how higher fixed charges would penalise solar and battery households, compared to those without rooftop solar and storage.

Their analysis assessed two household types: a ‘median’ household with electricity use aligned to Australian Competition and Consumer Commission (ACCC) data, and an ‘environmentally conscious’, fully electric household with an electric vehicle (EV).

The modelling then looked at the potential bill savings if each household type added an 8 kW solar system and a 20 kWh battery – and what the impact of higher fixed charges would be on each household (median, environmentally conscious, solar and battery vs no solar and battery). These impacts were calculated for the following networks: Ausgrid, Endeavour, Energex, United, Powercor, and South Australia Power Networks (SAPN).

For an electrified, environmentally conscious household on the SAPN network, under current tariffs, installing solar and a battery reduces the annual electricity bill from \$3,614 to \$250. Under the AEMC proposal, the same household would instead face an annual bill of \$929, leaving it \$679 worse off than under the current tariff rules.

Notably, the same household without solar and batteries would also see its bill **increase** by \$572, demonstrating that the reform disadvantages both solar and non-solar moderate users.

⁶ See 2

These financial impacts will be felt most by people like Barry, a supporter from NSW, who shared with us his concerns: *“I have an all electric home with rooftop solar and a home battery. This represents a sizeable investment for me as I am retired on a pension. I regulate my power usage and fixed charges are the dominant part of my quarterly bills. Fixed charges are already high, too high in my opinion given the profitability of the electricity wholesalers and retailers. I cannot see how increased fixed charges can be justified in the present economic climate.”*

Risks to future CER investment

Reduced financial returns for existing solar and battery owners will inevitably slow future uptake of CER, posing a risk to the Federal Government’s uptake target of two million batteries by 2030 under the Cheaper Home Batteries Program. Reduced CER uptake has implications not only for household investment decisions, but for emissions reduction and system costs more broadly.

Impact on households: CER provide households with a key pathway to lower energy bills. With the right incentives and tariff settings, households who install rooftop solar can save up to around \$1,400 per year on electricity costs⁷, and more with batteries, virtual power plants and energy efficiency upgrades. Implementing tariffs with a larger fixed charge component would reduce these savings, lengthen payback periods and limit households’ ability to reduce their energy costs. This would make CER a less economically sound investment for many households and would likely slow rooftop solar and battery uptake.

Diane, a solar owner from Tasmania expressed her concerns on this issue: *“Savings on my power bill are very worthwhile, and proving to be cost efficient when I do the sums, but recent proposals make me see red. I feel that I am being punished for doing the right thing. As yet, I haven’t got a storage battery, but why would I bother now?”*

Robin, a rooftop solar owner living in Victoria said: *“The fixed charge is by far my largest cost element and increasing it will discourage further investments in home energy efficiency projects.”*

Impact on the grid and system costs: Slower CER uptake would also represent a missed opportunity to reduce network and wholesale costs. The Australian Energy Market Operator’s (AEMO) Draft Integrated System Plan (ISP)⁸ estimates that coordinated CER, particularly flexible EV charging, could reduce system costs by \$7.2 billion, while continued support for energy efficiency could deliver a further \$12 billion in savings. IEEFA estimates that effective integration of distributed energy resources (DER) could deliver more than \$19 billion in net economic benefits by 2040, including \$10 billion in wholesale market savings for consumers⁹. Reduced uptake would place these benefits at risk.

⁷ [Solar PV | NSW Climate and Energy Action](#) (accessed 2025) NSW Government

⁸ [2026 Draft Integrated System Plan](#) (2025) AEMO

⁹ [DER could provide \\$19 billion economic boost by 2040](#) (2024) IEEFA

Impact on emissions: CER are also critical to achieving emissions reduction targets. AEMO's 2026 ISP indicates that to keep warming within 1.5 degrees, rooftop solar uptake in Australia will need to roughly double over the next decade. Policies that weaken investment signals for solar, batteries and flexible demand risk slowing this transition and increasing reliance on higher-cost, higher-emissions alternatives.

Proposed alternative approaches

Households are already helping to deliver a cheaper, cleaner and more reliable electricity system. Tariff reform should reward households for investing, shifting demand and supporting the grid, encouraging participation, instead of punishing it.

Investigate all options

Before endorsing tariffs with a larger fixed charge component, the AEMC should fully investigate all available pricing options and clearly demonstrate why fixed charges are preferable to alternatives. At present, that case has not been made.

The Draft Report does not include household-level bill modelling, distributional analysis across income groups or housing types, or assessment of long-term equity impacts. Without this analysis, it is not possible to conclude that higher fixed charges are the best or fairest option.

As a first priority, the AEMC should model a range of tariff scenarios, including predominantly fixed charges, predominantly volumetric charges, and hybrid approaches. This modelling should clearly show bill impacts for different household types and explain why one approach performs better than others.

Modelling should also assess alternatives that can reduce network costs without relying on blunt, unavoidable charges.

Alternative approaches include **dynamic operating envelopes (DOEs)** and **flexible export tariffs**, which allow households with solar and batteries to access spare network capacity when it is available, while limiting exports only when the network is constrained. Distributed Network Service Providers (DNSPs) such as Endeavour Energy are already demonstrating how more flexible, dynamic approaches can unlock existing capacity and reduce the need for costly network upgrades.

Dynamic incentives should also be modelled as an alternative or complement to fixed charges. These incentives encourage households to use electricity, export solar or charge and discharge batteries at times that support the system, such as increasing consumption during high solar periods or reducing demand during evening peaks. When well designed, dynamic incentives can lower network and wholesale costs while preserving strong price signals for efficient behaviour.

System-wide solutions – such as **Urban Renewable Energy Zones** informed by **spatial mapping data** made available to local governments and other trusted stakeholders – should also be considered. An Urban Renewable Energy Zone (UREZ) is defined as a designated urban area that supports high levels of small-scale and medium-scale renewable energy. UREZs focus on coordinating generation, storage and demand within existing suburbs and town centres, rather than relying solely on large, remote renewable projects. For example installing rooftop solar and batteries on large commercial, industrial and public buildings, to enable this energy to be shared locally to nearby homes and apartments through the distribution network.

Solar Citizens' Recommendation:

Before any rule changes are made, the AEMC should publish detailed modelling that compares different tariff options and their impacts on real household bills, including low-income households, renters, average households, and solar and battery owners. This modelling should be made publicly available well in advance of any decisions, to allow proper scrutiny and stakeholder input. The assessment should identify which options deliver:

- a) the greatest bill savings across all household types
- b) the largest reduction in network and wholesale costs
- c) the strongest support for consumer energy resources, and
- d) the greatest emissions reductions.

Reward demand-shifting behaviours

Households are not passive energy users. They already change when and how they use electricity, and they invest their own money in order to do so. Electricity demand rises in the morning and especially in the evening. Many households now reduce pressure on the grid during these peaks by using rooftop solar, batteries, smart appliances and EVs.

Higher fixed charges remove the incentives that currently encourage households to shift or reduce their grid consumption during peak periods. When more of the bill is fixed and unavoidable, households see less benefit from using less electricity, exporting solar, storing energy, or changing when they use power – even though these actions help reduce network costs for everyone. **This would put electricity pricing rules at odds with other government programs that aim to encourage peak demand shifting behaviour**, for example the Federal Government's Solar Sharer Offer.

The SSO will require retailers in Default Market Offer (DMO) regions to offer households at least three hours of free daytime electricity from July 2026. This is a good example of a retail energy market reform that will provide immediate bill savings to households and help to bring down energy costs system-wide, by better harnessing Australia's abundant solar energy and incentivising households to shift their demand in response.

AEMO's Draft 2026 ISP shows that **consumers are already reshaping the electricity system through their daily decisions and investments**. Electricity demand is not static: it rises during morning and evening peaks, and households are already responding to these signals by:

- installing rooftop solar and batteries to soak up surplus daytime solar and discharge during evening peaks,
- charging EVs outside peak periods, increasingly during peak solar hours,
- using smart home energy management systems to control hot water systems and appliances to avoid peak demand, and
- participating in aggregation through a Virtual Power Plant (VPP) or other coordinated service.

The proposal to increase fixed charges does not take into account the fact that many households are already reducing or shifting their electricity use in ways that support the grid. This proposal is not conducive to the global agreement made at COP28 in Dubai to triple renewables and double energy efficiency.

Solar Citizens' Recommendation:

The AEMC should ensure electricity pricing reflects the fact that households are willing to, and are already engaging with pricing signals and are shifting their peak demand and energy use according to this. These consumers should be rewarded for doing the right thing.

The Consumers' Grid

The lowest-cost electricity system is one that makes full use of CER, not one that sidelines them. Rooftop solar, batteries, EVs and energy efficiency reduce the need for expensive new generation, transmission and distribution infrastructure. They also lower wholesale prices, which benefits all consumers, not just those who own the assets.

AEMO¹⁰ finds that relatively small investments in distribution networks, such as better voltage management, could unlock an extra 3.5 gigawatts (GW) of export capacity from existing CER. This avoids much larger and more expensive grid-scale investments. AEMO also finds that coordinating CER, particularly EVs, would reduce total system costs by \$7.2 billion.

These benefits only happen if households are encouraged to keep investing and participating.

In contrast, tariffs with a larger fixed charge component do not create a more efficient system. They would lock in business-as-usual spending on poles and wires and shift risk away from networks and onto consumers.

¹⁰ [2026 Draft Integrated System Plan](#) (2025) AEMO

Solar Citizens' Recommendation:

The AEMC should consult with stakeholders including AEMO, IEEFA, the Department of Climate Change, Energy, the Environment and Water (DCCEEW) and other relevant bodies, and investigate the lowest-cost pathway to reducing network costs, including any upgrades required to capitalise on the 4.2 million small scale solar installations and 1,000 home batteries being installed every day¹¹.

Consumer protections must come first

Households have invested billions of dollars of private capital in CER, and these assets now play a central role in the operation, reliability and decarbonisation of the electricity system. As CER becomes increasingly relied upon to deliver system benefits, it is essential that regulatory settings protect household investments and provide confidence for continued uptake.

Before making changes to network pricing that could affect the value of rooftop solar, batteries and other CER, the AEMC must address the lack of long-term support, protections and governance for CER owners.

At present, there are significant gaps in consumer protection for CER owners, particularly in relation to VPPs. Participation in VPPs is being actively encouraged through government programs, including the Federal Cheaper Home Batteries Rebate and state incentive schemes, yet there are no national minimum consumer protections to guarantee transparency, autonomy or fair sharing of value. This creates risks for consumers and undermines long-term confidence in CER participation.

The AEMC should develop and implement national minimum consumer protections for VPPs as a priority. These protections should ensure clear and accessible information, fair contract terms, meaningful consumer control and appropriate safeguards for both residential and commercial participants.

Strong consumer protections will increase confidence among solar and battery owners to participate in VPPs, enabling greater utilisation of CER and allowing the broader community, including non-solar households, to share in the system and cost benefits these resources deliver. This is an example of how, with the right policy and market regulation settings in place, CER can play a central role in delivering a cheaper, cleaner and fairer electricity system.

More broadly, Australia lacks a clearly mandated national technical authority for distributed energy resources. The absence of such an authority creates risks for DER integration, system utilisation and fair consumer outcomes, particularly as pricing reforms increase households' exposure to network and market signals. Solar Citizens is actively advocating for a national DER technical regulator to oversee technical standards, data and interoperability requirements, and

¹¹ [200,000 bill-busting batteries installed in just 6 months](#), Media Release, Minister Bowen

coordination across market bodies and network businesses.

Network pricing reform should not proceed before this governance framework and consumer protections are in place. This is necessary to ensure that CER owners are not exposed to additional risks and that household investment in clean energy is supported, rather than discouraged, over the long term.

Solar Citizens' Recommendations:

- The AEMC should develop and implement national minimum consumer protections for virtual power plants, including requirements for transparency, consumer control, fair sharing of value and clear consumer rights.
- The AEMC should not proceed with network pricing reforms until a national DER technical regulator has been established to ensure that solar and battery owners are not exposed to additional risks and that household investment in clean energy is supported, not discouraged, over the long term.

Conclusion

When fixed charges rise, the portion of the electricity bill that households can control shrinks. This weakens the business case for solar, batteries and energy efficiency upgrades, lengthens payback periods, and reduces the reward for shifting demand to times that benefit the system.

Alan from Victoria wrote in to tell us his view of the proposed changes: *“I am a very efficient small consumer and over half of my electricity bill is already fixed charges. Higher fixed charges undermine the 'rational' behaviour driven by the marginal price to save energy or adopt other options.”*

Over time, fewer households will choose to invest in CER, and those that already have will have less incentive to actively participate through demand response or flexible exports. The result is slower uptake of low-cost, low-emissions solutions, higher long-term network and wholesale costs, and poorer outcomes for consumers overall.

Paul, a rooftop solar owner from NSW also felt strongly about this issue, stating that: *“Government must be made aware of the consequences coming from the erosion of the solar benefits by these back door fees.”*

The proposed shift toward tariffs with a larger fixed charge component has not been supported by sufficient modelling or evidence to demonstrate that it would promote the long-term interests of consumers, and available analysis suggests it would worsen outcomes for many households.

For these reasons, Solar Citizens does not support Draft Recommendation 5 or 6 proceeding.

Instead we recommend the following:

1. Before any rule changes are made, the AEMC should publish detailed modelling that compares different tariff options and their impacts on real household bills, including low-income households, renters, average households, and solar and battery owners. This modelling should be made publicly available well in advance of any decisions, to allow proper scrutiny and stakeholder input. The assessment should identify which options deliver:
 - a. the greatest bill savings across all household types
 - b. the largest reduction in network and wholesale costs
 - c. the strongest support for consumer energy resources, and
 - d. the greatest emissions reductions.
2. The AEMC should ensure electricity pricing reflects the fact that households are willing to, and are already engaging with pricing signals and are shifting their peak demand and energy use according to this. These consumers should be rewarded for doing the right thing.
3. The AEMC should develop and implement national minimum consumer protections for virtual power plants, including requirements for transparency, consumer control, fair sharing of value and clear consumer rights.
4. The AEMC should not proceed with network pricing reforms until a national DER technical regulator has been established to ensure that solar and battery owners are not exposed to additional risks and that household investment in clean energy is supported, not discouraged, over the long term.