AUSTRALIAN ENERGY REGULATOR

New Energy Storage Devices Waiver Application

Applicant Information

1	Name(s)	Powercor Australia Ltd
2	Project description	Our project is a Victorian Government funded and supported innovative trial of a neighbourhood battery on our low voltage network. The trial is part of the Victorian Government's Neighbourhood Battery Initiative (NBI), which aims to facilitate and provide support for pilots, trials and demonstrations of a range of neighbourhood scale battery ownership and operational models across the State.
		Our project trials Powercor owning, operating and maintaining a 120kW/360kWh ground-mounted neighbourhood battery in the Tarneit area, an area experiencing rapid rooftop solar uptake. The Tarneit area was selected by the Victorian Government due to its strong rooftop solar uptake.
		The battery will form part of our distribution network with the battery providing the following network services:
		 enabling more customers to connect their rooftop solar to the network and export their excess electricity
		 managing peak and minimum demand, managing voltage and power quality issues, and phase rebalancing.
		To maximise the market benefits from the neighbourhood battery, we propose to lease the spare capacity to a retail partner, [Confidential:] an unaffiliated entity, to participate in contestable markets at times when the battery is not being used for network services.
		It is anticipated the retailer will use the spare battery capacity to participate in wholesale market arbitrage, and frequency control ancillary service (FCAS) markets once integrated into a virtual

		power plant (VPP). [Confidential:
		The lease agreement will stipulate the operating parameters and priority use cases for the battery, with network services being rated as the top priority use cases. Wholesale market services, or any other customer services the retailer may provide, will be prioritised lower than the network service.
		As part of the project, we will trial the use of dynamic operating envelopes to the battery, to allow the battery to optimise on network conditions at different times of the day, season or under different weather conditions. The learnings from this trial will assist us in facilitating an orderly transition to the role of the distribution system operator (DSO), as envisaged in Energy Security Board's (ESB) post-2025 National Electricity Market (NEM) design.
		that is designed for a distributor-owned community battery. Our tariff trial was approved by the AER as part of our 2022-23 annual pricing proposal.
		We are confident the trial will demonstrate neighbourhood batteries have a critical role in Australia's transitioning energy system, and that distributors are well placed to own and operate these batteries, through partnerships with retailers and other third parties, to the benefit of all electricity consumers.
3	Reason for waiver	Community batteries are most valuable to customers when their full value to the entire energy system and the local communities can be utilised. That is why we plan to lease the excess capacity of the battery at times when we are not using it to exclusively provide network services. The excess capacity will be leased to a NEM participant to extract the wholesale market value and NEM ancillary services value given distributors are not permitted to participate in those markets. Please see Appendix A for the estimated use cases and hierarchy of uses.

4	Period of the waiver	We propose the waiver commence on the date it is granted and continue until 30 June 2033, which allows for 10.5 years from the commissioning date. That is, the proposed waiver period will commence in the 2021–2026 regulatory period, cover the entirety of the next regulatory period and part of the 2031-36 regulatory period.
		The waiver is required for this period to allow us to use the battery to provide standard control services for the life of the asset (the designed life of the asset is 10 years). The lease arrangement with the retailer will be for the same period.
		An additional six-month waiver period beyond the designed life of the asset is to allow sufficient time for the removal of asset prior to the end of the relevant financial year.

Supporting information for waiver application

This section is to provide information that will assist the AER's assessment of whether the benefits outweigh the costs for the battery project.

The waiver would allow for the full value of the community battery to be unlocked for all customers. All customers on our network benefit from the waiver being approved as the value of the lease would not be paid by customers either through the regulatory asset base (RAB) or through demand management innovation allowance (DMIA). If the waiver is not granted, the lease value, [Confidential:] would be paid for by all customers through the DMIA. While we have not quantified other costs to customers, they include: • lost opportunity to lower electricity prices from allowing
 another resource to participate in the NEM lost opportunity for the Victorian Government to test various models of community battery ownership and operation, including our innovative partnership model

		 where distributors and retailers work together to unlock the full value of a community battery [Confidential: [Onfidential: [Instead of a competition in the community battery market, by allowing retailers that are not interested in owning electrical assets to participate in the market. If the waiver is not granted, we would only be able to extract the network service use cases. Rejecting the application for waiver is not in the long-term interests of customers, or the electricity market as a whole. In contrast, granting the application for waiver and allowing the trial to proceed promotes the National Electricity Objective (NEO).
6	Benefits if waiver granted	The benefits to the local community in Tarneit, participating customers and the wider electricity system will outweigh the cost of the trial in the medium to longer term, particularly when both tangible and intangible benefits are considered. These benefits include:
		 enabling more customers to export more solar energy than they would otherwise be able to, enabling a faster transition to renewable energy future whilst lowering wholesale electricity prices
		• permitting customers unable to afford a home battery, or who do not have the physical space for battery, to benefit from local storage when participating in the tariff trial
		 allowing all customers to benefit from the deferral of investment in long lived network assets
		 all customers benefiting from a more stable grid through provision of lower cost FCAS services.
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Given the material anticipated customer benefits from the trial, we consider the trial meets the NEO.

Evidence demonstrating that the risk of cross subsidisation is sufficiently addressed or does not arise

Applications that sufficiently address risk of cross subsidisation or where the risk does not arise could be eligible for the streamlined waiver process.¹



¹ AER, *Electricity Distribution Ring-fencing Guideline – Explanatory Statement (Version 3)*, p 29-31.

² For information on cost allocation methods, see AER, *Electricity Distribution Ring-fencing Guideline – Explanatory Statement (Version 3)*, p 35-36.

		The proposed trial does not give rise to the risk of cross- subsidisation because: 1) the retailer's lease payments, and the Victorian Government funding, will be netted off the cost of the battery, meaning customers do not pay that value at all; b) the value being added to the RAB is the value of network benefits at the location of the battery. By only adding the value of network benefits in the RAB, the risk of cross-subsidisation through the use of the RAB is eliminated; 3) the residual cost of the battery is to be funded through the demand management innovation allowance (DMIA), which is appropriate given the novel and innovative nature of the project. It should be noted that future projects of this nature are likely to be cheaper if systems developed for a first unit can be leveraged for further units. This would apply for distributor led and
8	Process to engage third party suppliers of network services ³	third party led projects. Our retail partner was selected at the time of the application for NBI funding. Given the very short turnaround for the NBI application, we were not in a position to run a formal market test for the retail partner. However, we approached a number of retailers informally to understand their appetite to partner with us in the NBI application.
_		In normal circumstances, where the project is not tied to a short turnaround for government funding, we would have conducted a tender process for leasing of the battery.
9	Any other information	The success of this neighbourhood battery trial will be dependent on community support, experience and sentiment. We are aware of the challenges new electricity infrastructure can bring to any community, and already have channels developed to listen to the concerns of our community, as well as to address any potential concerns proactively. For this trial we have partnered with the Wyndham City Council, and with support from the Western Alliance

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³ AER, *Electricity Distribution Ring-fencing Guideline – Explanatory Statement (Version 3)*, p 34-37.

for Greenhouse Action, to execute a comprehensive engagement plan. The objective of the plan is to increase community awareness of community batteries, how they can participate in the trial as well as considering community perspectives on the final site location, including requirements, planning and permits. Further, we understand knowledge-sharing and dissemination of information is key to informing the wider industry on how best to approach neighbourhood batteries. As we progress through the trial, we are working with the Victorian Government and other stakeholders to develop a knowledge sharing platform that meets everyone's needs. Some of the ways we plan to knowledge share include: hosting dedicated webinars to present the project and trial outcomes; engaging with industry bodies and stakeholders throughout and following the completion of the project; publishing periodic reports on our website and project partner websites. Overall, we will work at various stages of the project to raise awareness of the project and identify opportunities to share knowledge. The community engagement strategy, including knowledge sharing initiatives, is provided in appendix B.

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Appendix B

Stakeholder Engagement Plan, Tarneit Community Battery Project

Project informat	ion		
Key project contacts	 Greg Hannan, Head of Network Strategy and Non-Network Solutions: grhannan@powercor.com.au Farshad Charmchi, Project Manager: <u>Farshad.Charmchi@ue.com.au</u>, 0477 979 242 Stuart Scudamore, Stakeholder & Engagement Advisor: <u>sscudamore@powercor.com.au</u>, 0413 075 395 		
Location	Gleneagles Avenue Reserve, The Parkway, Tarneit VIC 3092		
Description of works	The works involve the installation of a community battery within Gleneagles Avenue Reserve, adjacent to existing Powercor infrastructure. The works will involve a short power outage to connect the battery to the network.		
Timing	TBC. Approximately one week of site preparation, and one day for installation.		
Work hours	7am – 5pm w	eekdays.	
Construction impacts	 Standard construction works noise Access along The Parkway & Gleneagles Avenue Potential road closures Impacts to The Parkway & Gleneagles Avenue residents 		
Outages	твс		
Key stakeholders			
Tier 1 Engage		Tier 2 Inform	
 Wyndham City Council Melbourne Water (Tarneit Road Retarding Basin) Commercial partner – TBC Construction contractor 		 The Parkway residents (negotiables) Gleneagles Avenue residents (negotiables) Foxfield Way residents (negotiables Tarneit community (awareness campaign) 	
Key contacts			
Name/organisation		Contact information	
Daniel Mack/Wyndham City Council		Daniel.mack@wyndham.vic.gov.au	
Sarah Dalton/Wyndham City Council		Sarah.Dalton@wyndham.vic.gov.au	
Social risk assessment			
 Area information 11 properties located on The Parkway adjacent to project area 4 properties located on Gleneagles Avenue adjacent to project area 7 properties located on Foxfield Way adjacent to project area. 			

Public transport	Bus routes 180 & 182 located on Tarneit Road 150-200m north of corner of Tarneit Rd/Gleneagles Dr. Unlikely to be impacted by project.					
Parking	Private drives placate on-street parking requirements					
Language demographic	Language spoken at home other than English ⁴	Tarneit	Percent of population	Victoria	Percent of population	
	Punjabi	2,865	8.3%	56,171	0.9%	
	Hindi	1,986	5.7%	51,241	0.95%	
	Gujarati	1,170	3.4%	15,059	0.3%	
	Urdu	1,055	3.1%	23,205	0.4%	
	Arabic	870	2.5%	79,589	1.3%	
	English only spoken a home	14,217	41.1%	4,026,811	67.9%	
	Households where a non-English language spoken	5,921 is	58.4	624,141	27.8%	
	CALD communities must needs, to ensure the comparticipate in the engage will seek advice on lang We have translated mat languages and distribut	mmunity is ec ement progra juage and cha jor communic	ducated and u m, battery tria annels from Ci ations materia	nderstands h I, and the ret ty of Wyndha Is into three	ow they can ail offer. We am.	
Risk	Concerns	Controls				
Safety - construction	Safety of pedestrians and vehicles around works.	 Appropriate traffic management plan and signage where required Construction safety signage/public delineation. 				
Safety - operational	Operational concerns that may impact public perception – EMF, fire, noise etc.	 Engage with residents directly to alleviate concerns around battery operation FAQ document Community information campaign – social media, website promotion. 				
Traffic	Disruption to flow of traffic on The Parkway/Gleneagles Avenue, causing congestion.	 Traffic management and advance traffic signage (as required). Notifications to directly affected residents regarding traffic impacts (where required). 				

⁴ https://quickstats.censusdata.abs.gov.au/census_services/getproduct/census/2016/quickstat/SSC22439?opendocument

Construction noise	Construction noise adjacent to residences causing community complaint.	 Avoid out of hours work. Complete works during normal construction hours unless safety/permit requirements does not allow.
Access/parking	Impacted access or parking causing community complaint	 Avoid setting up site where access/parking is impeded where possible. Engage with residents when access cannot be maintained to ensure minimal disruption.
Complaints	Complaints from community around neighbourhood battery initiative or battery installation.	 Complaints should be directed to Powercor as first point of call, then escalated to us as needs be. Avoid double handling if it is a technical complaint/query Subcontractor brief. Community information readily available. Proactive community engagement.
Recommendations	 knock conversations It is recommended t Promote project inte Awareness notificati services provided or 	hat the translator footer is used on communications. rnally through MyConnect. on to be translated into LOTE, with translation n all subsequent communications. n of battery (images, render, diagrams) to be included
Communication a	nd engagement activities	5
Objectives		impact, promote local community benefits and nt, council, and community relationship
Project stage	Key actions	Supporting material
Planning phase	Brief key stakeholders b providing an overview of works and talk through a concerns	the • Communication materials
	Brief call centre	Updated key messagesCopy of latest materials
	Letter box drop #1 320 houses	Battery awareness notification delivered on 14 April 2022
	Drop-in sessions Diamantina Community Centre, Congo Drive, Tarneit.	 Tuesday 26 April 2022 Morning (8 –10am) Evening (4 – 6pm)
	Tarneit MP site visit with Powercor representative	
	Letter box drop #2 320 houses	Battery engagement notification with site location delivered 30 May

	Community event at Gleneagles Avenue Park Thursday 9 June 10am-2pm	WyndhaCoffee	or & Wyndham representatives am CC Councillor in attendance van with free coffee for attendees unity for locals to ask questions attery	
Delivery stage	Official project launch ceremony	informa Launch and DE Medias	Signage installed at battery site with nformation Launch of battery with MP, Wyndham CC and DELWP. Media story Social media promotion	
	Ongoing engagement with the local community	commu	g engagement with the local nity - meetings with directly d residents and businesses as	
Project completion	Media story/social media story/ Internal story – Project completion story	Conten	t brief/s	
	Thank you letter/postcard to residents/businesses	LetterPostcarVouche	-	
	Close out notice to stakeholders including Council	 Email Phone of Meeting 	ne call	
	Stakeholder interviews - Select top 3 stakeholders and ask up to 5 questions about their experience with the project.	surveyGauge	survey sent via email)	
	Apply key outcomes to improve future project delivery.			
Communication as	ssets	-		
Calling card for directly affected businesses/residents – due to COVID use card to leave at businesses			ТВС	
x2 notification letter to local residents			ТВС	
Project signage			ТВС	
Action			Timing	
Engage with Client and affected stakeholders on the construction method, anticipated impacts, outage timing and access arrangements.			Ongoing	
Brief other key stak	eholders		Ongoing	

Set up project webpage – summary and key messages28 March 2022Letterbox drop to residents – awareness campaign: introduce batteries and project proposal, provide FAQs14 April 2022Powercor & Council representatives were available for F2F conversations at drop-in sessions at chosen location (see above)26 April 2022Targeted Facebook campaign – Tarneit community geotargeted by postcode with awareness messaging25 April 2022 – 15 May 2022Letterbox drop to residents – engagement campaign: battery location, and event details30 May 2022Community event in Gleneagles Avenue Park • Coffee van • Powercor and Wyndham reps • Opportunity for locals to ask questions9 June 2022Site preparation and battery installationJuly 2022 – December 2022 (TBC)		28 March 2022
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Coffee van Powercor and Wyndham reps Opportunity for locals to ask questions Site preparation and battery installation July 2022 – December 2022 (TBC)		30 May 2022
(TBC)	Coffee vanPowercor and Wyndham reps	9 June 2022
Powercor representatives to conduct ongoing engagement with directly impacted residents and discuss community negotiables.	Powercor representatives to conduct ongoing engagement with directly impacted residents and discuss community	
Minister site visit August 2022 – September 20	Minister site visit	August 2022 – September 2022
Battery installation and network connection completeAugust 2022 – December 202Targeted Facebook campaign – project complete(TBC)		August 2022 – December 2022 (TBC)
Internal story/Media story – project completion August 2022 – December 202 (TBC)	Internal story/ Media story – project completion	August 2022 – December 2022 (TBC)
Thank you letter/postcard to residents/businesses August 2022 – December 202 (TBC)	Thank you letter/postcard to residents/businesses	August 2022 – December 2022 (TBC)
Close out notice to stakeholders including Council August 2022 – December 202 (TBC)	Close out notice to stakeholders including Council	August 2022 – December 2022 (TBC)
Stakeholder survey/interviews December 2022 (TBC)	Stakeholder survey/interviews	December 2022 (TBC)