



August 12, 2025

Department of Climate Change, Energy, the Environment and Water (DCCEEW)
John Gorton Building, King Edward Terrace, Parkes ACT 2600

Grid Enhancing Technologies Grant: Optimal Coordinated Charge Scheduling of Electric Vehicles

Monash University is pleased to support EV Grid 2.0, a forward-looking project led by Jemena and submitted under the Grid Enhancing Technologies grant program.

As Australia's energy landscape evolves, the integration of electric vehicles presents both a challenge and an opportunity. EV Grid 2.0 responds to this moment with a bold vision: to deploy smart, grid-integrated EV chargers that not only serve drivers, but actively support the electricity network.

Monash Energy Institute will contribute to this project through a combination of in-kind expertise and commissioned research, focused on two key areas:

1 Modelling Dynamic Network Conditions

We will use micro-PMUs to model real-time capacity on selected Jemena feeders, exploring the potential of dynamic line loading – a promising approach to unlocking hidden grid capacity. This work will also identify opportunities for understanding customers' behavior leading to better EV charging orchestration, enabling chargers to respond intelligently to network conditions.

2 Desktop Study: BESS Buffering and Connection Costs

We will conduct a standalone study to test the hypothesis that battery-buffered EV charging can reduce the cost of network connections. This research, which does not require physical deployment, could offer valuable insights for network planning and regulatory reform considering relevant stakeholders and end-users' decisions across the industry.

EV Grid 2.0 is more than a technology trial – it's a blueprint for how utilities, researchers, and communities can co-design the energy systems of tomorrow. We are proud to support this initiative and look forward to contributing to its success.

Monash University highly values the proposed research project that supports the strategic vision of the Faculty of Engineering and Information Technology. Monash is delighted to contribute \$553,492 of in-kind support, consisting of \$100,00 in equipment (up to four microPMUs and the PredictiveGrid platform to stream the microPMU data) and \$453,492 in personnel-related expenses.

Yours sincerely,

A black rectangular box redacting the signature of the Director of the Monash Research Office.

Director, Monash Research Office
Monash University

Monash Research Office

Office of the Deputy Vice-Chancellor (Research and Enterprise) and Senior Vice-President
Level 4, 211B Wellington Road, Mulgrave VIC 3170, Australia

T:

E:

W: <http://www.monash.edu.au/researchoffice>

AB CRICOS Provider #00008C

Maribyrnong City Council

Postal Address:
PO Box 58, West Footscray 3012
P: (03) 9688 0200
F: (03) 9687 7793

email@maribyrnong.vic.gov.au
www.maribyrnong.vic.gov.au



ABN: 86 517 839 961

5 August 2025

[REDACTED]
Jemena Electricity Network
Level 15, 567 Collins St,
Melbourne VIC

Dear [REDACTED]

Re: Letter of Support for Grid Enhancing Technologies Program Application

Maribyrnong City Council is pleased to provide this letter of support for an application to the Grid Enhancing Technologies Program. This initiative aligns strongly with our commitment to sustainable transport, decarbonisation, and equitable access to electric vehicle (EV) infrastructure across our municipality.

This proposal focuses on deploying power-pole mounted EV chargers in partnership with Jemena Electricity Network. This model is cost-effective, minimally disruptive, and scalable, offering a practical solution to accelerating EV uptake without requiring new off-street infrastructure or land acquisition.

One of the primary barriers to implementation in urban and suburban areas is grid capacity limitations. The integration of grid-enhancing technologies—such as dynamic voltage regulation, real-time monitoring, and localised load management—has the potential to significantly reduce these barriers. By increasing the hosting capacity of existing distribution infrastructure, such technologies enable the widespread, safe, and efficient roll-out of distributed energy assets like power-pole EV chargers.

Demand for accessible and convenient public EV charging is growing rapidly. Current data and community feedback indicate:

- High growth in EV registrations across Maribyrnong City Council.
- Identified locations for pilot rollout include Yarraville, Seddon, Kingsville and Footscray, selected based on residential areas with minimal off-street parking and areas with high density housing.

We fully support this proposal and commend the Australian Government for investing in future-ready grid solutions that enable equitable and innovative electrification strategies.

Should you have any questions or require further clarification, feel free to contact us at [REDACTED]

Yours sincerely,

[REDACTED]

[REDACTED]
A/Manager City Futures



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TIS: 131 450



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[REDACTED]
15/567 Collins Street,
Melbourne VIC 3000

19 August 2025

Dear [REDACTED]

RE: Jemena's Application for the DCCEEW Grid Enhancing Technologies Grant

Council is pleased that Jemena is applying for the Australian Government's *Grid Enhancing Technologies Program*.

Council is committed to a long-term strategic vision for Moonee Valley as a green city, with net zero emissions and climate resilience through built form improvements. We recognise that our inner suburban community are rapidly adopting electric vehicles, increasing demand for safe, equitable, and low carbon charging facilities.

We support, in-principle, the application of Jemena to the GET fund for works that align with Councils climate action g [REDACTED] MV2040 Plan.

[REDACTED] Strategic Transport Planner, via email at [REDACTED]

Yours sincerely,

[REDACTED]
Chief Executive Officer
Moonee Valley City Council

[REDACTED]

Signature

Date:

Be open | Know your impact | Make it count

Moonee Valley City Council 9 Kellaway Avenue Moonee Ponds
PO Box 126 Moonee Ponds Victoria Australia 3039 | 03 9243 8888 | council@mvcc.vic.gov.au

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