

# **Refineries use Australian mobile energy storage containers for bidirectional charging**



## Overview

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This report provides a high-level snapshot of the current state of V2X technologies, and associated opportunities and challenges for the Australian market. It has a particular focus on residential and light commercial vehicle-to-grid (V2G) applications. Australia is moving towards a cleaner and smarter energy future with the release of the National Roadmap for Bidirectional Electric Vehicle Charging (The Roadmap). This plan, developed by ARENA, RACE for 2030, and enX Consulting, explores how electric vehicles (EVs) can help power homes. This Roadmap was commissioned by the Australian Renewable Energy Agency (ARENA) and RACE for 2030 (RACE) to identify the critical path to achieving commercial adoption of bidirectional EV ("bidi") charging in Australia. With bidirectional charging technology, EVs.

## Refineries use Australian mobile energy storage containers for bidding

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### The road to V2G

A landmark collaboration between CSIRO and Essential Energy demonstrated how commercially available chargers paired with rooftop solar can store daytime solar output in an ...

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## Australia Unveils Roadmap for Bi-Directional EV Charging

Bidirectional charging allows EVs to draw power from the grid and send energy back to homes, businesses, or even the grid. This innovation enables EVs to act as mobile energy storage ...



### Leading the charge in bi-directional charging

The final report will explore the implications of the research in terms of outstanding barriers to scaling, including required changes to unlock the full potential of bi-directional charging.

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## Mobile energy storage

## technologies for boosting carbon neutrality

Innovative materials, strategies, and technologies are highlighted. Finally, the future directions are envisioned. We hope this review will advance the development of mobile energy ...



## Green Review , ARENA's bidirectional charging roadmap released

The Roadmap provides a clear pathway for industry and government stakeholders to implement policies and strategies that unlock the full potential of bidirectional EV charging for ...

## Bidirectional Charging and Electric Vehicles for Mobile Storage

In contrast to stationary storage and generation, which must stay at a selected site, bidirectional EVs employed as mobile storage can be mobilized to a site prior to planned outages or ...



## National Roadmap for Bidirectional EV Charging



This Roadmap was commissioned by the Australian Renewable Energy Agency (ARENA) and RACE for 2030 (RACE) to identify the critical path to achieving commercial adoption of bidirectional EV ("bidi") ...

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## ARENA releases bidirectional EV Charging Roadmap

Australia's energy landscape is set for a shift with the release of the National Roadmap for Bidirectional EV Charging. Commissioned by ARENA with RACE for 2030 and delivered by enX ...



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## National V2G Roadmap: Paving the Way for Bidirectional EV ...

The National V2G Roadmap presents a visionary yet practical framework for integrating bidirectional EV charging into Australia's energy and transportation ecosystems.

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## V2X Summary Report

Compared to other jurisdictions (such as Germany, the Netherlands, South Korea and California), Australia lacks a policy framework to accelerate the supply of

bidirectional charging-capable equipment.



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