

**PIENAAR ENERGY (PTY) LTD**

# **Distributed energy storage in Australia**



## Overview

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Common examples of DER include rooftop solar PV units, battery storage, thermal energy storage, electric vehicles and chargers, smart meters, and home energy management technologies. Distributed energy resources are changing the way Australia produces and manages electricity. Another name for DER is “behind the meter” because the electricity is generated or managed 'behind' the electricity meter in the. Distributed energy resources (DER) refers to often smaller generation units that are located on the consumer's side of the meter. Dr Gabrielle Kuiper is Australia-South East Asia DER Lead at CSIRO, and a guest contributor to. Based on recent and growing interest in energy storage, the CRC for Low Carbon Living is undertaking a scoping study to better understand the key issues, challenges and opportunities for distributed energy storage within Australia. Australians have embraced rooftop solar at double the rate of any other nation.

## Distributed energy storage in Australia

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### Distributed energy resources

Distributed energy resources have the potential to provide consumers with a range of benefits: Consumers who install DER units may be able to reduce the price they pay for electricity or may ...

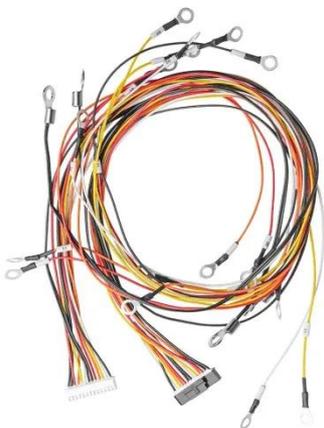
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### Integrating distributed energy resources in the electricity grid

The Distributed Energy Integration Program (DEIP) is a joint initiative led by the Australian Renewable Energy Agency (ARENA) and includes market authorities, industry, peak bodies and consumer ...



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### RP1013: Distributed Energy Storage

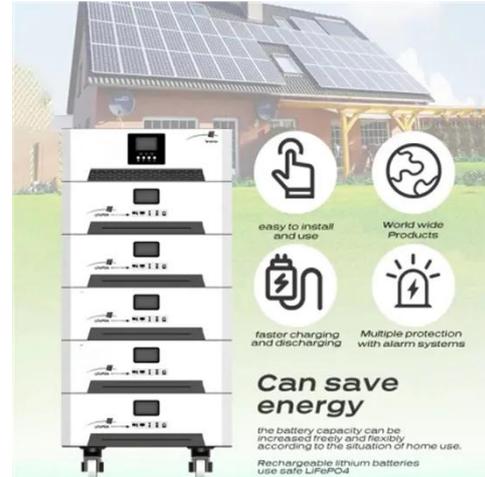
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## Distributed energy resources

Distributed energy resources are changing the way Australia produces and manages electricity. Rather than electricity being generated by big, centralised power stations, it is now starting to come from ...

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## Energy storage in Australia

Currently storage of electrical energy in Australia consists of a small number of pumped hydroelectric facilities and grid-scale batteries, and a diversity of battery storage systems at small ...

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## AEMO , About the DER Program

Australia's energy ecosystem is rapidly transforming towards a decentralised, two-way energy system, driven by the rapid uptake of household and commercial solar generation and energy storage.

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## Distributed energy storage in Australia: Quantifying potential benefits

This paper presents findings from a



study investigating the potential applications for distributed energy storage (DES) in the Australian National Electricity Market (NEM).

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## Australia's Distributed Solar Market Reaches a Pivotal Coordination ...

Australia's distributed solar sector has entered a decisive stage of development, with new data revealing structural changes that will shape the future of renewable energy and battery storage ...

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## The role of energy storage in Australia's future energy supply mix

While acknowledging these diverse applications for energy storage, the first report primarily considers the transformative role that energy storage can play in Australia's electricity systems.

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## Driving the energy distribution

## revolution

While Australia has more rooftop solar per capita than any nation, policy and regulation lags mean the potential for distributed energy resources to expedite the energy transition is yet to be ...

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