



Regional New Energy Microgrid Project

What is the regional microgrids program?

On behalf of the Australian Government, the Australian Renewable Energy Agency (ARENA) has today opened the Regional Microgrids Program, with \$125 million in funding allocated to develop and deploy microgrid technologies across regional and remote communities.

Why does arena support the development of regional and remote microgrids?

ARENA backs the development of regional and remote microgrids because they offer a pathway to a renewable energy future. Some of the advantages of renewable energy-powered microgrids for remote communities in Australia include: mitigating the effects of natural disasters, such as bushfires, floods or cyclones.

Can microgrids improve energy reliability in remote communities?

Many of the microgrid feasibility studies aimed to improve energy reliability in remote communities. An interviewee involved in the microgrid feasibility study in a small remote community in Western Australia highlighted that the town is on a 100 km radial line. Any fault on that line can disrupt the power supply in the whole town.

Are microgrids a viable alternative to centralised energy solutions?

Microgrids are likely to be a more viable option in some regional communities, with similar characteristics to Donald and Tarnagulla, in the medium term (10+ years). Microgrids are place-based technical infrastructure that activate local communities in ways that centralised energy solutions generally do not.

How much money will be allocated to microgrid projects in First Nations communities?

The new Program will allocate \$75 million for microgrid projects in First Nations communities. Electricity provision in remote First Nations communities is often heavily reliant on diesel which is unreliable, expensive and emissions intensive.

How much money does the regional microgrid program make?

The Regional Microgrids Program makes up to \$AUD125 million for eligible projects [86]. The definitions for the RRCRF funding (2020-2024) and subsequent Regional Microgrid Program (2023-2025) are provided below and in both cases, represent a broader definition of the term "microgrid". (See Table 1.)

These "overlapping needs" helped justify the high cost of an all-renewable microgrid. All up, the project will cost about \$8 million, with \$1 million in funding from the NSW government's bushfire ...

The Fort Collins Microgrid in Colorado is part of a larger project known as the Fort Collins Zero Energy District (FortZED), where the district plans to create as much thermal and electrical energy locally as it uses. The microgrid project involves multiple customers including the New Belgium Brewery, InteGrid laboratory,



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City of Fort Collins ...

"To support improved resilience and reliability of electricity supply in regional Australia through pilot microgrid demonstrations that use or enable the use of renewable ...

Regional and Indigenous communities will benefit from more secure, affordable and reliable energy with the Federal Government supporting feasibility studies into microgrids around Australia. The Government is backing ...

Communities can rely on their project coordinator and regional partners for support services, whether that means workforce development for clean energy jobs, raising capital, planning for long-term sustainability, or other challenges they face ...

Regional and remote communities are set to benefit from more secure, affordable and reliable energy with the Federal Government supporting feasibility studies into microgrids. The Government is backing 17 microgrid projects with over \$19 million in grant funding under Round One of the Regional and Remote Communities Reliability Fund.

The Australian Renewable Energy Agency (ARENA) on Friday opened a AUD-125-million (USD 80m/EUR 74) programme to incentivise the deployment of microgrid technologies across regional and remote ...

The project illustrated how islandable microgrids may improve energy security and reliability for regional communities experiencing reliability issues, and how various energy solutions might ...

Microgrids are small scale electricity systems that can coordinate local energy resources such as solar panels, battery storage and other distributed infrastructure, to provide secure and reliable electricity within the microgrid as well as optimising renewable energy generation and usage. The microgrid may also provide services back to a major ...

C.L.E.A.N. The 1-MW Cowra solar and battery microgrid project aims to aggregate several large industrial regional businesses into a single embedded network, while developing energy generation and dispatchable capacity. Center For New Energy Technologies. The Charlton Zone Substation microgrid project will explore the feasibility of islanding ...

The program expects to provide grants ranging between \$1 million-\$5 million. The RAMPP funding builds on the \$50.4 million Regional and Remote Communities Reliability Fund which supported feasibility studies into microgrid projects ranging from hydrogen hubs in far north Queensland, sustainable energy for Arkaroola's wilderness sanctuary in South Australia, ...

The Regional Microgrids Program will allocate \$75 million for projects in First Nations communities. The program also incorporates ARENA's former \$50 million Regional Australia Microgrid Pilots Program



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(RAMPP), ...

The "RE-EMPOWERED" project aims to develop and demonstrate novel tools to provide a complete solution for all stages of a Microgrid/Energy Island and Multi-Microgrid ...

Stage 3 - Customer Energy Use Study In this stage, we will get to know the Clairview and Stanage Bay communities and their energy needs in more depth. We will install new digital metering, conduct energy audits and conduct a land assessment to identify a list of potential sites suitable for establishing a microgrid close to the network.

Renewable-based microgrids can also reduce the use of diesel generators in remote communities. Where feasibility studies find that microgrids are economically viable, additional support can be sought from the Australian Renewable Energy Agency (ARENA) and Clean Energy Finance Corporation (CEFC). Round one applications close on 21 November 2019.

Using the lens of strategic niche management and viewing each initiative as a protected space of innovation, this research analyses the feasibility studies of 20 microgrid ...

Consultancy: Renewable energy projects: New South Wales: Remote town: 4: University: Victoria/Tasmania: Remote town: 5: Community Organisation: Victoria/Tasmania: ... The regional microgrids tend to be fully linked to the national grid, whereas those in remote areas are more likely to be fringe-of-grid or off-grid. Solar is by far the most ...

Victorian community energy initiative Indigo Power was awarded more than \$1.15 million in funding for two projects, including the Upper Murray Islandable Microgrid Project, which will use 10 MWh of energy storage to test the feasibility of microgrids to improve the reliability of power across Victoria's Upper Murray region.

Through the construction of multiple microgrids and the use of multi-point photovoltaic grid-connected construction, the Sino-Singapore Tianjin Eco-City Demonstration Project has greatly increased the proportion of new energy power generation used in the area, reduced power loss, eased the pressure on centralized power supplies, improved the situation ...

An innovative microgrid has been Horizon Power's Onslow Renewable Energy Project. This 2021 project was the first example of an Australian utility creating a regional microgrid thanks to a DER management ...

A new \$50 million fund will support the deployment of microgrids and renewable energy across regional Australia.. The funding will help communities to take control of their energy needs while also improving ...

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Solar energy is by far the most common source of generation for these microgrids, which usually also entail energy storage such as batteries, pumped hydro or hydrogen. New research by my colleagues and I ...

Galloway Township. Incentive \$175,000; 12-month study; Galloway Township's proposal will examine the potential of using a town center microgrid to connect the Galloway Town Hall and police station, AtlantiCare Regional Medical Center, two assisted living facilities, Stockton University, Reeds Elementary School, Roland Elementary schools, Galloway Middle School ...

Initiative aims to develop capabilities for a hydrogen fuel cell microgrid and pave the way for future clean energy projects promoting regional stability and energy security Loughborough - 07 May 2024 - Intelligent Energy (IE), the UK's leading fuel cell developer and manufacturer, is proud to announce its role in supplying fuel cells for a US Department of ...

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