



ARENA
GENERAL FUNDING STRATEGY

2018/19 – 2020/21



Australian Government
Australian Renewable
Energy Agency

ARENA



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**ARENA seeks to
accelerate Australia's
shift to an affordable
and reliable renewable
energy future.**

Introduction

ARENA is a statutory agency established by the Australian Government on 1 July 2012 by the *Australian Renewable Energy Agency Act 2011 (Cth) (ARENA Act)*, which provides for funding until 2022. This General Funding Strategy (GFS) guides how the Australian Renewable Energy Agency (ARENA) provides financial assistance to eligible activities, in accordance with the ARENA Act and subsidiary regulations.

ARENA applies the GFS principles to set investment priorities, which are detailed in the Investment Plan (IP).

When determining which activities will be financially supported, ARENA takes into account a proposal's fit with the investment priorities. The GFS reflects how ARENA intends to achieve its objective and takes account of the Government's priorities as reflected in the Minister's Statement of Expectations.

ARENA is required to develop and publish a general funding strategy that outlines its principal objectives and priorities for the provision of financial assistance covering a period of three financial years.

The GFS is reviewed each year, updated if necessary, and provided to the Minister for the Environment and Energy for approval. This GFS remains in force until a subsequent version is approved by the Minister.

ARENA may only provide financial assistance to new activities in accordance with the GFS. While ARENA considers the GFS and IP to be consistent, the GFS takes precedence if any conflict arises between the two.

In addition to meeting its current investment priorities, a significant focus for ARENA is delivering the benefits from past projects. This may include providing financial assistance for extension or complementary projects, as well as knowledge sharing through the collection, storage, analysis, curation and sharing of information, experience and know-how gained from these and related projects.





ARENA's Objective

The ARENA Act sets out ARENA's main objective, which is to:

- **improve the competitiveness of renewable energy technologies and**
- **increase the supply of renewable energy in Australia.**

Renewable energy technologies are defined, in the Act, to include hybrid, related or enabling technologies. To pursue this objective, the Act enables ARENA to provide financial assistance and share knowledge to support innovation in renewable energy, as well as in hybrid and other related technologies, such as energy storage.

ARENA seeks to accelerate Australia's shift to an affordable and reliable renewable energy future. ARENA enables more renewables and lower emissions by driving innovation and commercialisation. By funding projects and sharing knowledge, we improve the competitiveness of renewable energy and support the transformation of Australia's energy mix benefiting the Australian economy, industry and wider community.

ARENA's support for innovation and the commercialisation of clean energy technology provides options to reduce future greenhouse gas emissions at least cost. This enhances Australia's ability to transition to a low emissions and energy productive economy.

While ARENA favours investments with the potential to deliver near-term impacts, it also takes account of the potential for larger long-term impacts from investments that could take time to pay off. Accordingly, ARENA takes a long-term view of its objective, aiming to have an impact between 2020 and 2040.

Investment Priorities

ARENA pursues investment priorities that it has identified as likely to have the most impact on achieving its objective, and publishes them in the IP. In developing these priorities, ARENA takes into account views from a wide range of stakeholders, research and complementary initiatives such as the Low Emissions Technology Roadmap.

ARENA's approach balances certainty and transparency for applicants with the flexibility to respond to changes in the market, including commercial breakthroughs and policy developments.

The investment priorities also enable ARENA to focus its efforts to ensure it achieves impact in the activities it undertakes.

The IP provides guidance for applicants and informs knowledge sharing activities.

ARENA also publishes analysis of the potential for activities and relevant technologies to contribute to its purpose. This increases transparency of the priority-setting process.

For the period of this GFS, ARENA will place a high priority on delivering secure and reliable electricity, accelerating solar PV innovation, improving energy productivity and exporting renewable energy.

As part of Australia's contribution to Mission Innovation, ARENA intends to grow its total spending on research and development through the period of this GFS, providing a base to at least double research and development spending by 2020.



ARENA enables more renewables and lower emissions by driving innovation and commercialisation.

Guiding Principles for ARENA Financial Assistance

ARENA helps advance technologies or applications towards commercialisation, particularly by overcoming the early-mover disadvantage that leads to under-investment in new clean energy options. ARENA financial assistance is therefore expected to deliver changes beyond the funded project, such as to:

- build industry skills, confidence and knowledge, reducing risk for future similar activities
- support emerging and next generation technologies to move along a pathway to commercialisation through the research, development, demonstration and pre-commercial deployment stages
- support business models that are novel in application or to the Australian market, to reduce risk and accelerate technology transfer into the Australian economy
- inform regulatory decisions and standards development by other agencies.

ARENA takes five principles into account when developing and delivering investment priorities. These principles need to be balanced against each other, targeting financial assistance to areas of maximum impact, while allowing for a degree of diversity to cater for less likely, but potentially significant, advances.

Targeted for maximum impact

ARENA seeks to accelerate clean energy innovation, thereby increasing energy productivity of the Australian economy and providing options for the transition to a low emissions future.

ARENA sets its investment priorities to target the areas where it can make the most impact. Among other factors, this means taking into account:

- the potential contribution of an area of work to ARENA's objective
- the potential for objectives to be achieved through efforts in other countries, by other agencies or the private sector
- the need for a portfolio of complementary projects in a particular area
- the potential for issues and challenges to be addressed by means other than financial assistance.

ARENA works cooperatively with Commonwealth agencies, state and territory governments, proponents and others, and aims to complement other programs and initiatives to ensure its activities achieve maximum value. In particular, ARENA works closely with the Clean Energy Finance Corporation and the Australian Research Council to align public effort to further clean energy innovation.

When setting its priorities and making funding decisions, ARENA seeks to complement and leverage impact from other programs and funding sources, including private finance and the Clean Energy Innovation Fund.

Technology neutral

Within its technology remit of renewable energy, hybrid, related and enabling technologies, ARENA takes a technology-neutral approach to developing its investment priorities. This allows a full range of options to be explored, increasing the chances of the lowest cost and most effective solutions being available in the long term.

Responsive and agile

ARENA aims to be responsive to market conditions, technology developments and industry needs as they arise.

ARENA reviews its IP periodically in light of its existing investment portfolio and developments in technology, market and policies, to best ensure it invests in the highest impact activities.

ARENA aims to be agile, responding swiftly to take advantage of opportunities that could have a transformative impact on renewable energy in Australia. ARENA provides financial assistance to novel ideas and approaches, recognising there is no certainty they will pay off, and expands or contracts support depending on experience.

Diverse

Given the uncertainty and risk inherent in researching, developing and commercialising new energy solutions, ARENA seeks diversity in its investment portfolio to ensure options are kept open for the future and its portfolio has an impact in different policy and economic scenarios. ARENA aims for its overall portfolio to:

- provide clean energy options for the long-term
- demonstrate the potential for clean energy options to address Australia's current energy issues.

Accordingly, ARENA looks to ensure its overall portfolio includes activities at different stages of development on the commercialisation pathway:

- research into and development of early-stage technologies that are world-leading or address specific Australian requirements, providing options for the long-term
- demonstration of the feasibility of new technologies and business models to take advantage of them

- pre-commercial deployment of technologies where this is expected to improve the competitiveness of future projects, focused on nearer-term application and impact
- studies and knowledge sharing activities that increase the competitiveness or uptake of new energy technologies.

ARENA also achieves diversity in its investment portfolio by providing support across multiple dimensions, for example:

- types of technology
- applications and market uses of technologies
- activities to inform regulatory reform or new business models.

Commercially focused

ARENA's financial assistance is provided to advance technologies or applications towards commercial readiness, improve business models, address barriers or reduce overall industry costs. ARENA does not fund activities that are commercially viable without ARENA support.

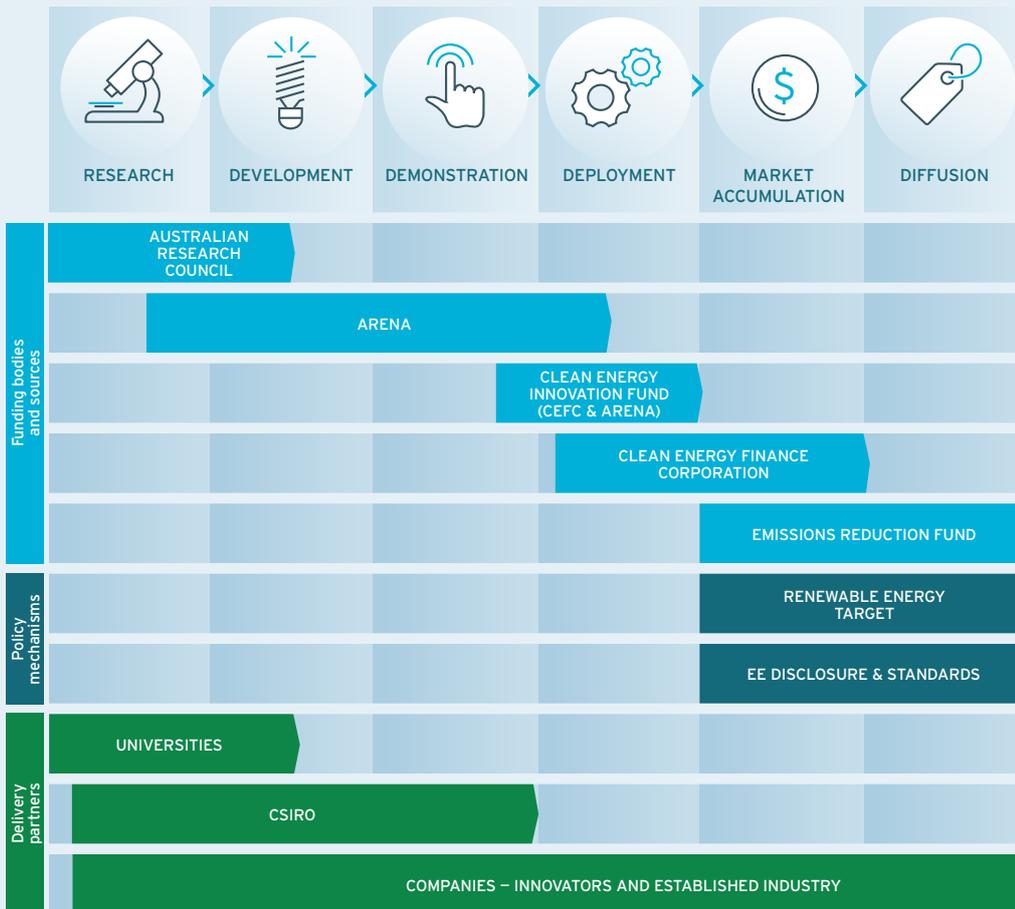
ARENA seeks to provide the minimum financial assistance needed, and in the most appropriate form, to deliver the desired outcome, thus maximising value for public investment.

ARENA-funded activities are required, where appropriate, to share knowledge. This increases the return on public investment by extending the impact of ARENA financial assistance beyond the proponent to the broader industry.

Figure 1 - Supporting innovation and commercialisation



Figure 2 - A partnership across the innovation chain



Further information is available at
arena.gov.au

Australian Renewable Energy Agency

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