

Webinar to start at 12.30pm

For Q&A, please log-in to Slido with the following details:

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Round 1: Future Fuels Fund Information Session

Australian Renewable Energy Agency



Darren Miller
CEO



Stephen Turner
Business
Development and
Transactions



Lauren Vincent
Business
Development and
Transactions

Agenda

- Welcome and introduction to ARENA
- Strategic intent of the Future Fuels Fund Round 1
- ARENA's Assessment Process
- Eligibility Criteria
- Merit Criteria
- Key links and dates
- Q&A

Reminder

Slido will be used at today's event for Q&A

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Please include your name when registering in the event we need to clarify your question after the session.



ARENA's Purpose

ARENA is the Australian Renewable Energy Agency.

The Agency was established by the Australian Government in July 2012.

To improve the competitiveness of renewable energy technologies and increase the supply of renewable energy through innovation that benefits Australian consumers and businesses.



INVESTED

\$1.67B



PROJECTS

579



VALUE

\$6.84B



INVESTMENT LEVERAGE

\$1:\$3.10



PROJECTS BY TECHNOLOGY

BIOENERGY



\$131M

GEOTHERMAL



\$42M

GRID INTEGRATION

\$259M



HYBRID

\$110M



HYDROGEN

\$57M



OCEAN

\$44M



SOLAR PV

\$725M



SOLAR THERMAL

\$163M



STORAGE - BATTERIES/PHEVS

\$139M



RECENT ACTIVITY



\$16.5M to help address solar PV panel efficiency, overall cost reductions and end-of-life issues

\$12.9M DER marketplace trial with AEMO in northern Victoria

\$11.5M for a grid-scale battery in western Sydney

\$5.9M for an Australian first biomethane project in NSW

\$5.7M for the first grid scale flow battery to be built in SA

\$220K for a hydrogen remote area power project in WA

INVESTMENT BY STATE

NT PROJECTS 7
INVESTED \$39M
VALUE \$82M

WA PROJECTS 36
INVESTED \$175M
VALUE \$1.79B

SA PROJECTS 52
INVESTED \$150M
VALUE \$602M

TAS PROJECTS 19
INVESTED \$40M
VALUE \$97M

QLD PROJECTS 55
INVESTED \$201M
VALUE \$1.19B

NSW PROJECTS 237
INVESTED \$820M*
VALUE \$2.43B

ACT PROJECTS 68
INVESTED \$67M
VALUE \$186M

VIC PROJECTS 105
INVESTED \$177M
VALUE \$443M

* Includes \$567 million contributed to projects inherited by ARENA in 2012.

INVESTMENT LEVERAGE ALONG THE INNOVATION CHAIN

STUDY	R&D
\$1:\$1.70	\$1:\$1.63
DEMONSTRATION	DEPLOYMENT
\$1:\$1.84	\$1:\$5.87

ENGAGEMENT



FUTURE FUELS FUND

Talked with industry about the 20/21 budget measure which is aimed at helping businesses and regional communities take advantage of opportunities offered by hydrogen, electric, and bio-fuelled vehicles.

DYNAMIC OPERATING ENVELOPES

Held workshops to explore the value of dynamic operating envelopes and how they can help integrate distributed energy resources into the electricity grid.

ARENA Future Funding

- A funding package of **\$1.62 billion for ARENA** was announced on 17 September 2020 (and included in the 20/21 Federal Budget announced on 6 October). This included:
 - Baseline funding of \$1.43 billion over 10 years to extend our current funding from 2022
 - New policy measures including the Future Fuels Fund, Industrial and Freight Energy Efficiency and Microgrids policy measures over the next 4 years.
- The Australian Government's first Low Emissions Technology Statement was also released in September. This outlines the priority technologies with potential for transformational economic and emissions outcomes including:
 - clean hydrogen
 - energy storage
 - low carbon steel and aluminum
 - carbon capture and storage
 - and soil carbon measurement
- Together with other agencies including the CEFC and the Clean Energy Regulator, ARENA will be a key part of the Government's efforts to accelerate these priority technologies and other emerging and enabling technologies also included in the Low Emissions Technology Statement.

ARENA's Battery Electric Vehicle Journey

Barriers



Market understanding

- The State of Electric Vehicles in Australia Report 2017/ 2018 (Climateworks)
- Australian Electric Vehicle Market Study w/ CEFC (Energeia)

Information deficit and tools

- Evenergi Phase 1 (reports and tools)
- Evenergi Phase 2 (reports and tools)

Range anxiety

- Chargefox (\$6m)
- Evie Networks (\$15m)
- Jolt (\$1m)

Grid Integration

- Managed charging portfolio of Origin, ActewAGL, AGL (\$8m)

ARENA initiatives, reports and projects



Total committed ARENA funding ~\$30 million to support ~\$88m of total investment

What is the Future Fuels Fund?

The Future Fuels Fund, administered by ARENA, aims to support Australians to be able to choose new vehicle technologies including battery electric (**BEV**), hydrogen and bio-fuelled vehicles. The Fund will provide grant funding for public charging and refuelling projects or those which incorporate new vehicle technology into fleets, including the costs of charging infrastructure and electrical upgrades (as opposed to direct vehicle incentives)

The Fund has the following target areas:

Public Charging and Refuelling	Extending the national public charging network to address key blackspots in regional and metropolitan areas
New Vehicle Technologies for Businesses	Enabling businesses with passenger, courier, bus and truck fleets to transition to new vehicle technologies (including BEV, hydrogen and biofuels)
Innovative Australian Technology	Supporting Australian innovation by assisting companies developing unique technology that improves consumer choice in future fuels or with export potential

Future Fuels Fund Program Overview

- Round 1 will focus on battery electric vehicle (BEV) public fast charging infrastructure (>50kW) in major population centres.
- Subsequent rounds will be an ongoing program that will be open for set periods.
Target areas are expected to include:
 - Regional charging
 - Fleet recharging and infrastructure including buses, trucks, couriers
 - Hydrogen and biofuels
 - New technologies including smart charging innovation
- The Fund will support charging infrastructure costs as opposed to providing vehicle incentives.

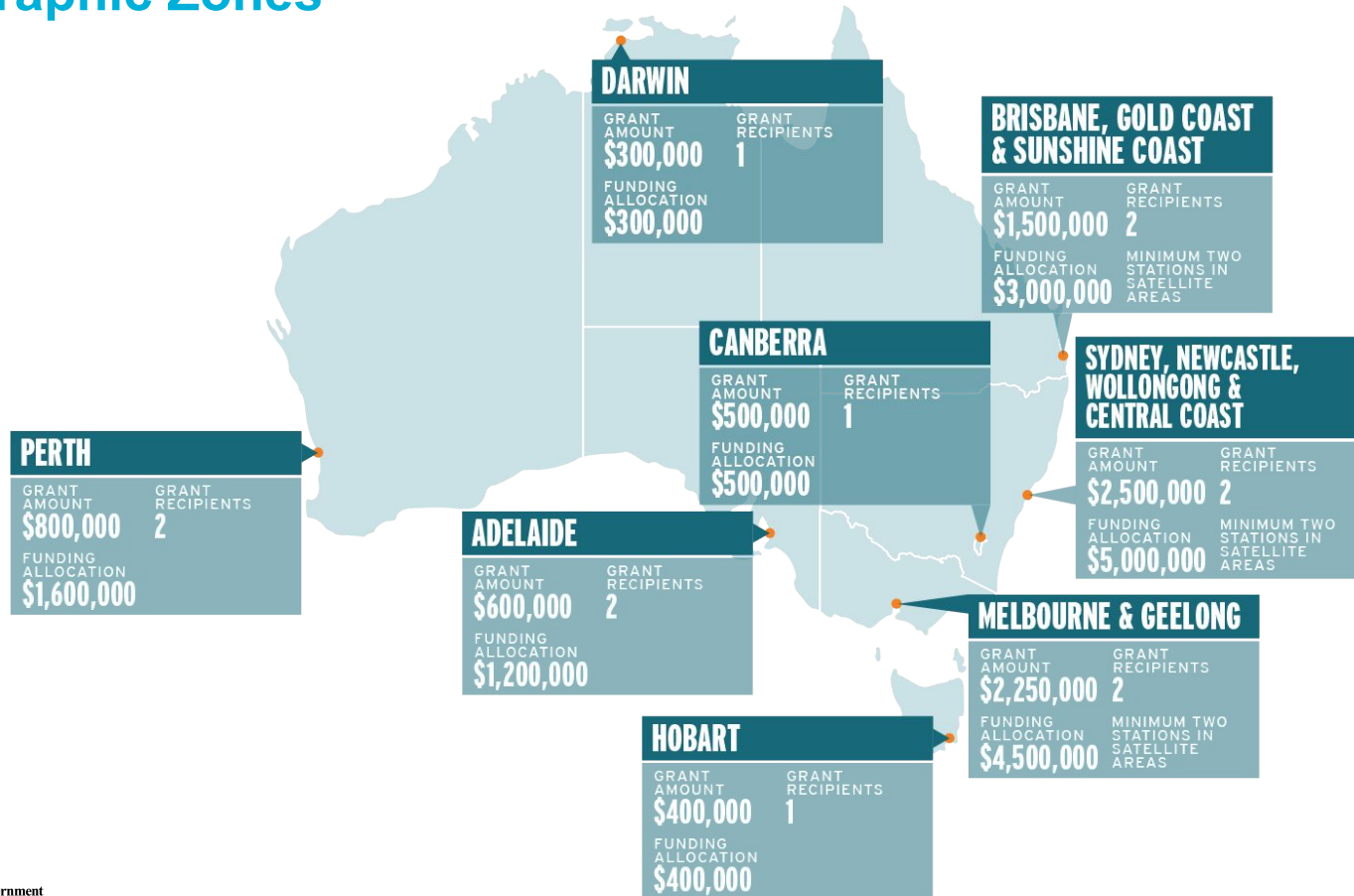
Round 1 Objectives

- The objectives of Round 1 are to:
 1. **Expand the Australian fast charging network** - deliver a material increase in the amount of BEV fast charging stations publicly available in Australia.
 2. **Reduce Blackspots** - maximise the spread of public fast charging stations across Australia to reduce blackspots and provide more Australians with convenient recharging options.
- Round 1 aims to deliver a backbone public charging network in large population centres that will enable the public as well as taxis and commercial fleets to choose BEVs.

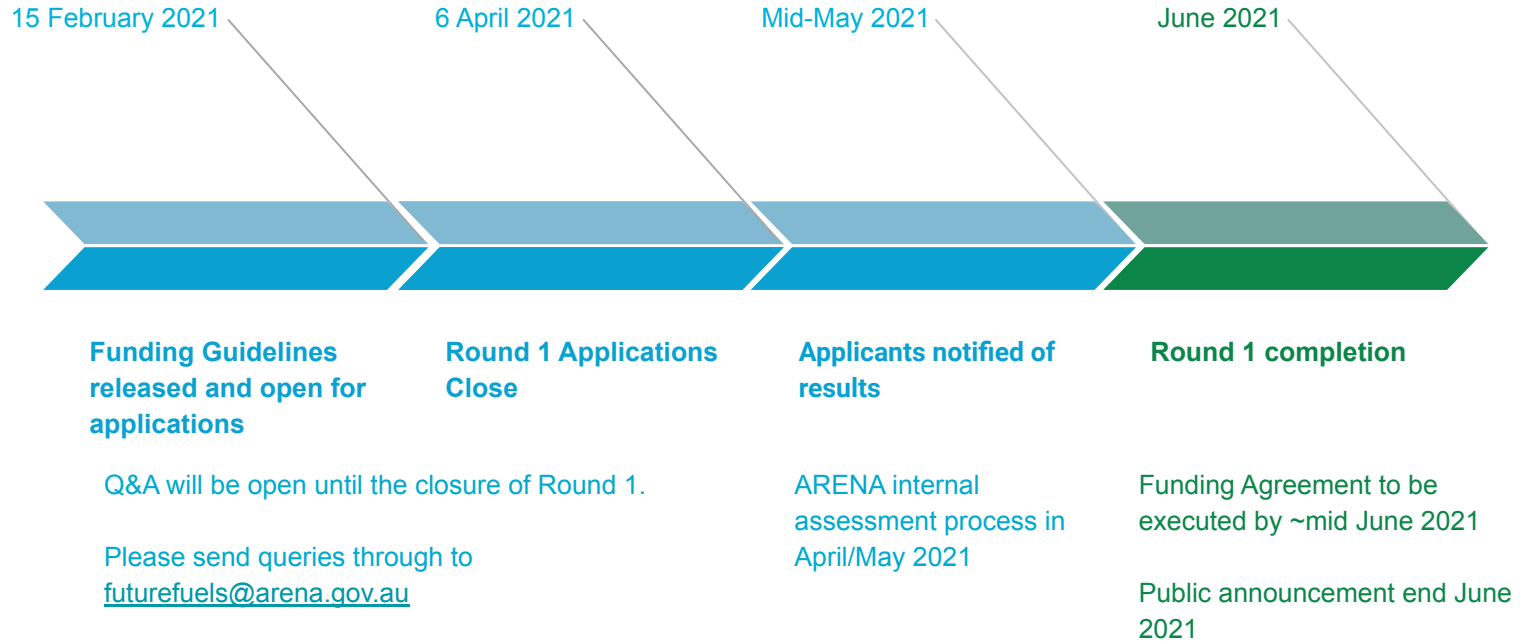
Round 1 Overview

- Total ARENA grant funding of \$16.5 million for public fast charging networks.
- Funding is allocated between 8 Geographic Zones (**next slide**).
- Applicants must bid the specified amount of funding for each zone and propose a network of fast chargers to maximise their score according to the Round 1 Merit Criteria.
- Improving geographic coverage and numbers of fast charging stations is a more important consideration than higher charging capacity.
- Key features of Round 1 for each successful applicant include:
 - Sites must be at least 5 km apart.
 - Site locations should be within 3 km of their initial proposed location.
 - Sites must be able to charge at least 2 cars at 50 kW or above concurrently.
 - All proposed sites should be delivered within 2 years following execution of contracts.

Geographic Zones



Application and assessment timeline



ARENA's assessment process

One stage process

- Submitted online through ARENA's Grant Management System ARENANet.
- Submissions received after the due date will not be assessed.

Eligibility Criteria

- 7 eligibility criteria
- All must be met to proceed to merit assessment

Merit Criteria

- All 4 merit criteria equally weighted
- ARENA Advisory Panel will assess applications against merit criteria.
- Applications numerically scored
- Projects ranked within Geographic Zones

Portfolio Approach

- Considers how a project contributes to the Round objectives relative to other projects and the total portfolio.

Geographic Zones - a reminder

	Geographic Zone	ARENA Grant amount	No. grant recipients	ARENA funding allocation	Minimum Fast Charging Stations in Satellite Areas
1	Sydney, Newcastle, Wollongong & Central Coast	\$2.5m	2	\$5.0m	At least 2 Fast Charging Stations in each of Wollongong, Central Coast and Newcastle
2	Melbourne & Geelong	\$2.25m	2	\$4.5m	At least 2 Fast Charging Stations in Geelong
3	Brisbane, Gold Coast & Sunshine Coast	\$1.5m	2	\$3.0m	At least 2 Fast Charging Stations in each of Gold Coast and Sunshine Coast
4	Perth	\$0.8m	2	\$1.6m	n/a
5	Adelaide	\$0.6m	2	\$1.2m	n/a
6	Canberra	\$0.5m	1	\$0.5m	n/a
7	Hobart	\$0.4m	1	\$0.4m	n/a
8	Darwin	\$0.3m	1	\$0.3m	n/a

Eligibility Criteria

A - eligible applicant	<ul style="list-style-type: none"> • Must hold an Australian Business Number (ABN) and be either: • An Australian entity incorporated under the Corporations Act 2001 (Cth); or • An Australian State or Territory owned corporation or a subsidiary of an Australian State or Territory owned corporation; or • An Australian local government or council.
B - eligible project	<ul style="list-style-type: none"> • As outlined in item 3.3 of the Guidelines (next slide)
C - take place in Australia	<ul style="list-style-type: none"> • All of the Project activities must take place in Australia
D - intellectual property	<ul style="list-style-type: none"> • Must warrant that you have ownership or access to any IP necessary to complete the project
E - workplace gender equality	<ul style="list-style-type: none"> • Applicant must not be named as being non-compliant with the Workplace Gender Equality Act 2012 (Cth)
F - modern slavery	<ul style="list-style-type: none"> • Must agree to take reasonable steps to identify, assess and address risks of modern slavery practices in its operations and supply chains used to deliver the Project • Comply with, and assist ARENA to comply with, required obligations under the Modern Slavery Act.
G - knowledge sharing	<ul style="list-style-type: none"> • Must agree to ARENA's Knowledge Sharing Plan for this Round which is outlined in the Funding Agreement template

Eligibility Criteria B: Eligible Project

- a. Involves construction of Fast Charging Stations (**detail on next slide**)
- b. Utilises plug types at the Fast Charging Stations which are in accordance with the Federal Chamber of Automotive Industries (FCAI) technical statements and / or codes of practice
- c. Only includes Fast Charging Stations located within a single Geographic Zone
- d. Requests the Available ARENA Grant amount specified for the nominated Geographic Zone
- e. For applicable Geographic Zones, will deliver at least two Fast Charging Stations in the required Satellite Area(s)
- f. Sources Renewable Energy or Green Certificates to cover the electricity usage in all Fast Charging Stations
- g. Develops new Fast Charging Stations only
- h. Will not restrict public access to the Fast Charging Stations (such as by providing priority, reserved or exclusive access to a business or business fleet)
- i. Each Fast Charging Station site includes at a minimum, designated car parks for two (or more) BEVs with lane markings and lighting
- j. Will commit to install and commission all Fast Charging Stations within 2 years of executing the ARENA Funding Agreement
- k. Will comply with any applicable legislation and regulations.

The Project must comply with all requirements

What is a Fast Charging Station?

- A Fast Charging Station is a publicly accessible location that can charge a BEV at 50 kW or above. For a Fast Charging Station to be eligible under Round 1, it must be capable of charging two cars concurrently at 50 kW or above. To clarify, examples of eligible Fast Charging Station configurations may include but are not limited to:
 - 1 x 100 kW dual-port charger
 - 2 x 50 kW single-port charger
 - 2 x 50 kW dual-port chargers
- Fast Charging Stations will still be eligible if the charge capacity drops below 50 kW when three or more cars are charging simultaneously, such as instances when three cars are accessing two 50kW dual port chargers
- Can be co-located with existing EV charging infrastructure (<50 kW)
- Space for 2 cars to park and night time lighting
- Not constructed, committed or announced.

ALL proposed Fast Charging Station locations must comply with all requirements

Merit Criteria

- Merit Criterion A: Contribution to the Round 1 Objectives
- Merit Criterion B: Applicant capability and capacity
- Merit Criterion C: Project design and methodology
- Merit Criterion D: Financial viability and co-funding commitment

Merit criterion A - Contribution to the Round 1 Objectives

Geographic Zone

- Specify the Geographic Zone you are applying for

Location Strategy

- Overarching strategy to selecting Fast Charging Station locations. Include consideration of:
 - How you have maximised geographic coverage across the Geographic Zone
 - How the location strategy satisfies current and future public and commercial needs for BEV fast charging
 - How proposed locations will help to reduce range anxiety (*1000 words*)

*Include site specific Fast Charging Station location information in the **mandatory** Detailed Site Attachment. Visual aids such as maps are optional.*

Merit criterion B - Applicant capability and capacity

Capability

- Project team's (Applicant and partners) track record of delivering outcomes in BEV charging and/or similar infrastructure projects and skills/expertise as relevant to the proposed Project *(1000 words)*

Capacity

- Demonstration that the applicant organisation, any partner organisations, and key personnel have the resources and infrastructure (or that these will be accessible or made available) to achieve the Project outcomes. *(1000 words)*

Optional attachments: CVs of Key Personnel (up to 5 per application no more than 2 pages per CV) and Letter(s) of Support from Project partners

Merit Criterion C - Project design and methodology

Project design

- a) Description of the proposed Project methodology including:
 - i) how the Project development work streams will be delivered;
 - ii) any progress achieved at the time of submission and;
 - iii) the certainty that (all or some) Fast Charging Station locations will proceed as proposed *(1000 words)*
- b) Summary of how the Project timeline will be achieved and how contingencies will be managed *(400 words)*
- c) Description of the hardware solution(s) to be installed including consideration of vehicle interoperability and reliability *(400 words)*
- d) Description of the software solution(s) to be used and how any software will support the consumer experience *(400 words)*
- e) Describe the proposed site operation and ownership model for delivering and operating the Fast Charging Stations *(500 words)*
- f) Describe your methodology to ensure delivery of a positive consumer experience across your Fast Charging network *(300 words)*

*Refer to item 4.16 of the Guidelines for a non-exhaustive list of Project development work streams and list of **mandatory** and optional attachments.*

Merit Criterion D - Financial viability and co-funding commitment

Budget Table

- Simple budget table in ARENANet
- A detailed budget, Project financial model and evidence of financial capacity must be submitted as separate attachments

Written Justification

- a) Cost certainty in relation to key cost items (*400 words*)
- b) Financing strategy to secure all financial capital required to deliver the Project (*400 words*)
- c) Approach to manage cost overruns (*200 words*)
- d) Overall budget justification (*300 words*)

Refer to Appendix A: Eligible Expenditure in the Guidelines for more information on what ARENA funds can and cannot be used for

Attachments

The following attachments are mandatory. Failure to submit one or more of these attachments may result in your application being considered ineligible:

- **Detailed Site Attachment** - use the template available at:
<https://arena.gov.au/assets/2021/02/detailed-site-attachment.xlsx>
- **Project timeline**
- **Risk Management Plan** - use your own template or ARENA's template available at:
<https://arena.gov.au/assets/2021/02/risk-management-plan-template-future-fuels-fund.docx>
- **Project budget** - a detailed Project budget submitted as an excel file. Note this is in addition to the simple budget table in the application form.
- **Project Financial Model**
- **Evidence of financial capacity**
- **Compliance Table response to the Funding Agreement** - use the template available at:
<https://arena.gov.au/assets/2020/04/future-fuels-funding-agreement-compliance-template.docx>

How to copy an application in ARENANet

- Applicable only if you want to submit an application for more than one Geographic Zone.
- A 'How to' Guide is available on the Future Fuels Fund webpage at: <https://arena.gov.au/funding/future-fuels-fund/#step-3-prepare-your-response>

Step 1: Applications

This page shows all existing applications that have not yet been processed.








Below are your applications. Click the link to open an existing application.

[+ New application](#) [Upload application](#) [+ New form](#)

[Download](#) [Export CSV](#) Show entries

	Identifier	Title
	KM029	Future Fuels Fund - Round 1

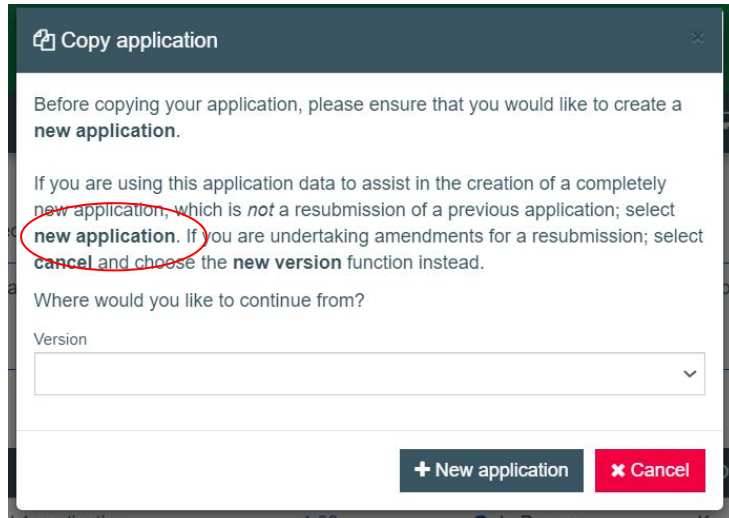
Step 2:

	Identifier	Title
		Application information
		 Copy application
		 Download data file
		 Invite user to register or share application
		 Rename application
		 Delete application

How to copy an application in ARENANet

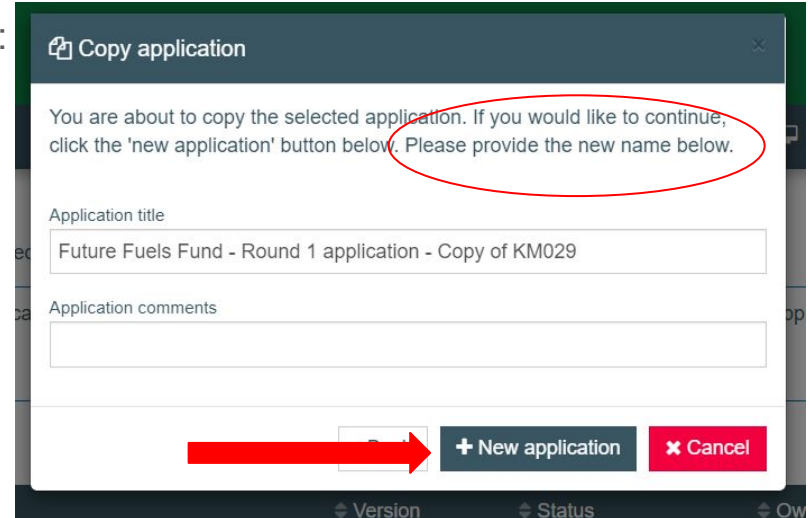
- A 'How to' Guide is available on the Future Fuels Fund webpage at: <https://arena.gov.au/funding/future-fuels-fund/#step-3-prepare-your-response>

Step 3:



The screenshot shows a dialog box titled "Copy application". The text inside reads: "Before copying your application, please ensure that you would like to create a **new application**." Below this, it says: "If you are using this application data to assist in the creation of a completely **new application**, which is *not* a resubmission of a previous application; select **new application**. If you are undertaking amendments for a resubmission; select **cancel** and choose the **new version** function instead." A red circle highlights the words "new application" in the second paragraph. Below the text, there is a question: "Where would you like to continue from?" followed by a "Version" dropdown menu. At the bottom right, there are two buttons: "+ New application" and "x Cancel".

Step 4:



The screenshot shows the same "Copy application" dialog box. The text now reads: "You are about to copy the selected application. If you would like to continue, click the 'new application' button below. Please provide the new name below." A red circle highlights the entire sentence. Below the text, there are two input fields: "Application title" and "Application comments". The "Application title" field contains the text "Future Fuels Fund - Round 1 application - Copy of KM029". At the bottom right, there are two buttons: "+ New application" and "x Cancel". A red arrow points to the "+ New application" button.

Key links and dates

Applications Due

Tuesday 6 April 5pm AEST

Future Fuels Fund Round 1 webpage

<https://arena.gov.au/funding/future-fuels-fund/>

Notification of results

May 2021

ARENANet

<https://arenaomnistar.f1solutions.com.au/>

Contracts Executed

Late June 2021

Guidelines

<https://arena.gov.au/assets/2020/04/future-fuels-fund-round-1-ev-guidelines.pdf>

FAQs

<https://arena.gov.au/assets/2020/04/faqs-future-fuels.pdf>

Further questions?

Email: futurefuels@arena.gov.au



Questions

Slido is used at today's event. To ask a question...

Go to: slido.com

Enter event code: futurefuels

Any further questions? Email futurefuels@arena.gov.au

End
