



Future Fuels Program

Australian Renewable Energy Agency



1. Introduction to ARENA

ARENA's Purpose

ARENA is the Australian Renewable Energy Agency.

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

Our objects are to:

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

To support the global transition
to net zero emissions by
accelerating the pace of
pre-commercial innovation, to the
benefit of Australian consumers,
businesses and workers.



AUSTRALIAN RENEWABLE ENERGY AGENCY

KEY STATISTICS 2012-2021

ARENA



INVESTED

\$1.83B



PROJECTS

618



VALUE

\$7.95B



INVESTMENT LEVERAGE

\$1:\$3.36



INVESTMENT BY TECHNOLOGY

BIOENERGY

\$131M



GEOTHERMAL

\$42M



GRID INTEGRATION

\$325M



HYBRID

\$111M



HYDROGEN

\$64M



OCEAN

\$44M



SOLAR PV

\$736M



SOLAR THERMAL

\$178M



STORAGE - BATTERIES/PHES

\$195M



RECENT ACTIVITY



\$100M funding round to support the next generation of grid-scale batteries with advanced inverters

\$8.6M for a distributed energy resource orchestration pilot in WA

\$5M for Australia's largest electric bus fleet in NSW

\$3M for a hydrogen truck demonstration in Townsville, Qld

\$1.5M export hub for renewable hydrogen in Newcastle, NSW

RELEASED Australia's Bioenergy Roadmap to pave the way for Australia's bioenergy industry

INVESTMENT BY STATE

NT PROJECTS 8
INVESTED \$40M
VALUE \$82M

WA PROJECTS 41
INVESTED \$197M
VALUE \$1.87B

SA PROJECTS 55
INVESTED \$152M
VALUE \$607M

TAS PROJECTS 21
INVESTED \$40M
VALUE \$99M

QLD PROJECTS 64
INVESTED \$259M
VALUE \$2.01B

NSW PROJECTS 248
INVESTED \$862M*
VALUE \$2.58B

ACT PROJECTS 70
INVESTED \$71M
VALUE \$194M

VIC PROJECTS 111
INVESTED \$204M
VALUE \$510M

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

INVESTMENT LEVERAGE ALONG THE INNOVATION CHAIN

STUDY

\$1:\$1.71

R&D

\$1:\$1.64

DEMONSTRATION

\$1:\$1.87

DEPLOYMENT

\$1:\$6.30

RECENT ENGAGEMENT



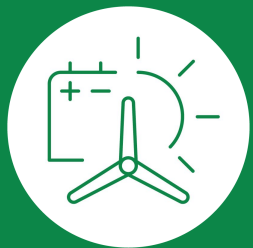
STARTUP EVENT @ COP26

Hosted a panel event featuring five of Australia's most promising clean energy startups. The event was attended by more than 300 people and livestreamed into the Australian Pavilion at COP26

HYGATE PARTNERSHIP

Announced a partnership to develop and deliver a German-Australian Hydrogen Innovation and Technology Incubator known as HyGATE

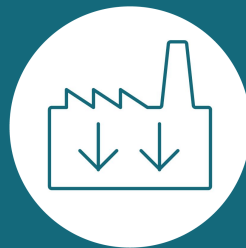
Our strategic priorities



OPTIMISE THE
TRANSITION TO
RENEWABLE
ELECTRICITY



COMMERCIALISE
CLEAN HYDROGEN



SUPPORT THE
TRANSITION TO
LOW EMISSIONS
METALS



SCALE UP CCS &
REDUCE THE COST
OF SOIL CARBON
MEASUREMENT

DELIVER THE BUDGET PROGRAMS

Future Fuels Fund | Industry Energy Transformation Studies Program | Regional Australia Microgrid Pilots Program
Freight Efficiency Assistance Grants | Freight Energy Productivity Trial Program

2. Program overview

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 vehicles, hydrogen and bio-fuelled vehicles.

| Focus area | Status |
|--------------------------------|---------------------------------|
| Public charging (metropolitan) | Completed (July 2021) |
| Heavy fleets | Current Program Focus Area |
| Light commercial fleets | Current Program Focus Area |
| Public charging and refuelling | Undertaking market consultation |
| Household smart charging | Undertaking market consultation |

Note 1: Additional areas may be considered following market consultation

Current Program Focus Areas

Focus Area 1

Supporting integration of BEVs into Light Vehicle fleets

Aim: Supporting Australian businesses and other organisations move towards a decarbonised transport fleet, by helping to integrate BEV passenger vehicles, SUVs and light commercial vehicles (vans and utes) (Light Vehicles) into their fleets.

Minimum grant size: \$1 million.

Focus Area 2

Supporting integration of BEVs into heavy vehicle fleets

Aim: Supporting Australian businesses and other organisations decarbonise their heavy transport fleet, by supporting the deployment and integration of heavy BEVs including trucks and buses.

Minimum grant size: \$1 million.

*Focus Area 3**

Commercialise hydrogen as a transport fuel

Aim: Supporting Australian businesses and other organisations integrate the use of hydrogen into their transport fleet, by supporting the deployment of hydrogen fuel cell vehicles and associated hydrogen infrastructure such as refueling stations

Minimum grant size: \$5 million.

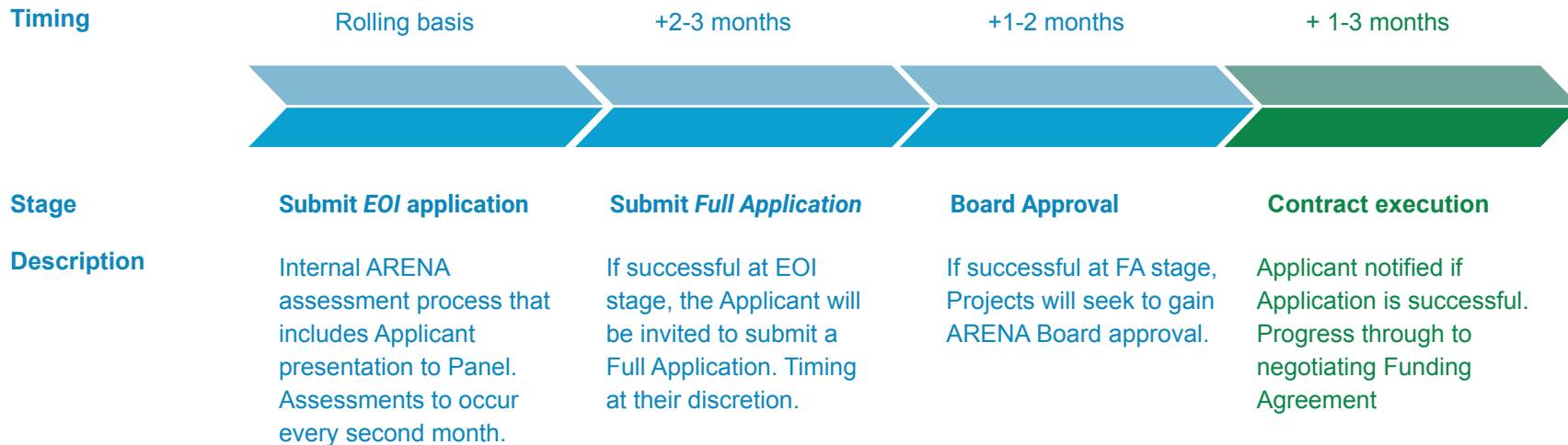
Out of scope

ARENA will not consider support for projects that:

- Do not include firm commitments to vehicles as part of an integrated project with recharging/refueling infrastructure.
- Are predominantly public BEV charging and / or public hydrogen refueling without vehicles, which will be considered further in a later Targeted Round.
- Support charging infrastructure for private individuals with ZEVs that are not owned, leased or otherwise utilised by a business, government agency or other organisation.
- Are using bio-fuelled vehicles which will be considered in future stages of the Future Fuels Program.
- Feasibility or other studies.

Note: Projects that align with the Program Focus Areas of the Future Fuels Program may not be considered under ARENA's Advancing Renewables Program unless otherwise agreed by ARENA.

Program operation and timeline



NOTE: Prior to submitting an EOI application, please send a high level project overview via email to futurefuels@arena.gov.au. We will provide initial feedback and confirm fit with the Program.

ARENA's assessment process

Two stage process

- Submit an EOI and if successful, invited to submit a Full Application
- **Online Application form** for EOI and FA submitted online through ARENA's Grant Management System ARENANet along with a **Project Plan**

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.

Portfolio Approach

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

4. General information and key links

Key links

Future Fuels Program webpage

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

ARENANet Online Application Form

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

Guidelines

<https://arena.gov.au/assets/2022/02/future-fuels-program-guidelines.pdf>

FAQs

<https://arena.gov.au/assets/2022/02/future-fuels-program-faqs.pdf>

Further questions?

Email: futurefuels@arena.gov.au