

Corporate integrity and action in Australia's expanding carbon markets

2021 Educational Seminar Series

Preliminary Webinar: Carbon Market Fundamentals

Wednesday 6 October, 2021





2021 Virtual Seminar Series Overview

Wednesday October 6 Preliminary Webinar: Carbon Market Fundamentals

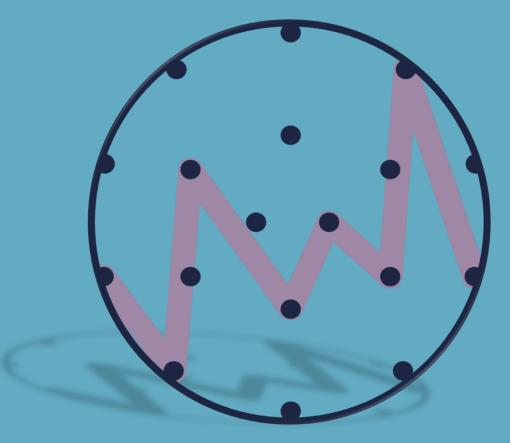
Friday October 8 Seminar 1: Domestic Market Developments & Innovation

Friday October 15 Seminar 2: Market Supply – Project Development, Methods & Integrity

Friday October 22 Seminar 3: Corporate Engagement – Market Strategies, Investment & Due Diligence

Wednesday October 27 Seminar 4: Trading & Procurement – Engaging in Domestic & International Markets

*All seminars commence at 12pm (AEDT)

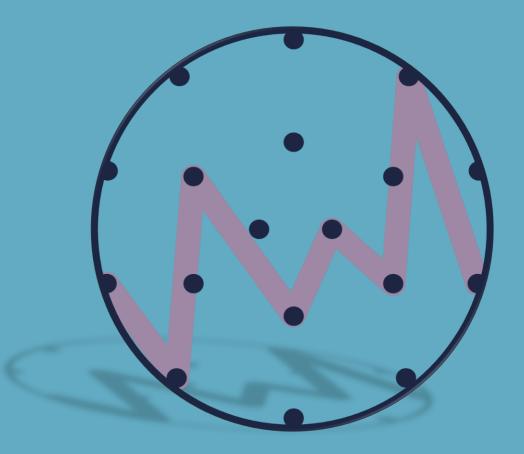


Preliminary Webinar: Carbon Market Fundamentals

Speakers

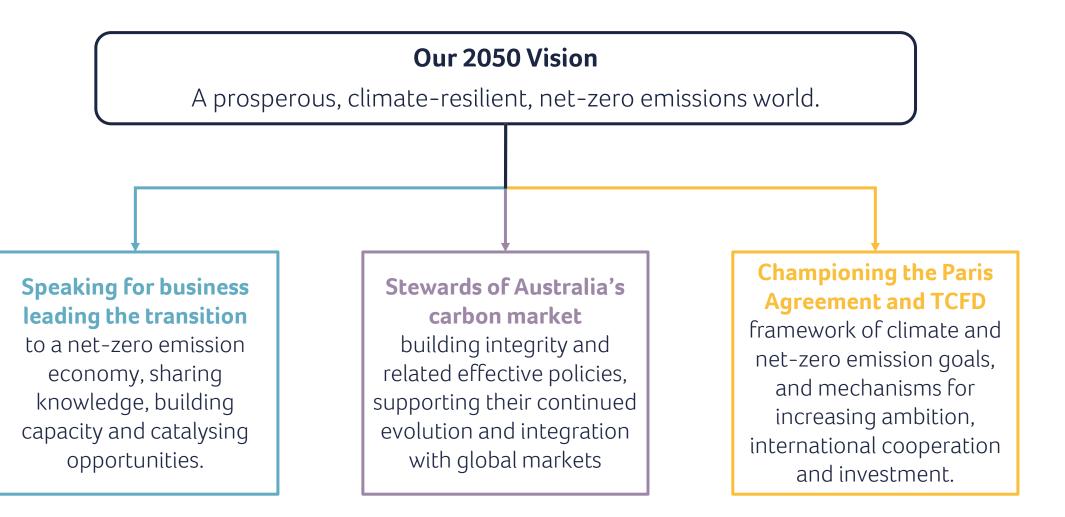
- Shakir Rahman Assistant Manager, Economic Analysis, Clean Energy Regulator
- Brad Kerin
 General Manager, CMI
- **Gloria Karaiskos** Director, Climate Change, CMI





About CMI







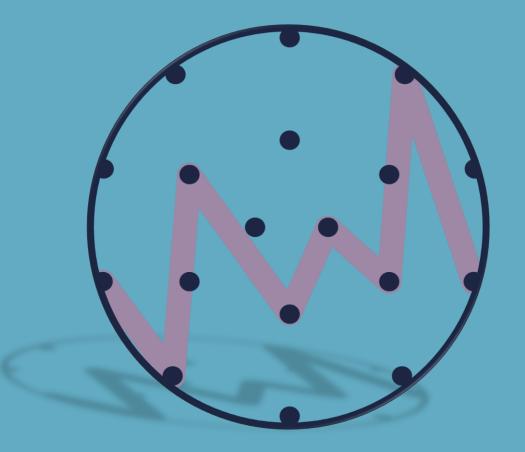


Australasian Emissions Reduction SUMMIT 2021

9-10 DECEMBER | ICC SYDNEY

DESTINATION ZERO&BEYOND

summit.carbonmarketinstitute.org



Introduction to Carbon Markets



Carbon Markets?

'... if pollution is free, there will be more of it...'

- Catherine McKenna, Former Environment Minister of Canada





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Carbon Markets

Increasingly ambitious legal, financial and regulatory policy frameworks that attribute an economic value to the sequestration of, or avoidance of carbon emissions.



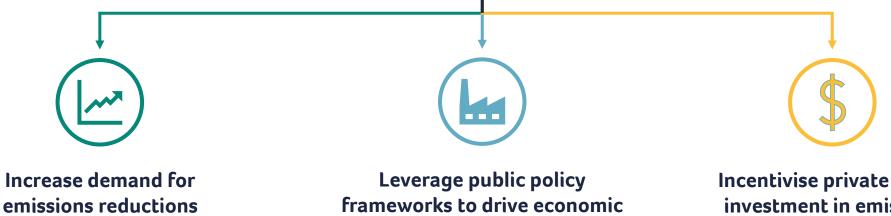


'... if pollution is free, there will be more of it...'

- Catherine McKenna, Former Environment Minister of Canada

Carbon Markets

Increasingly ambitious legal, financial and regulatory policy frameworks that attribute an economic value to the sequestration of, or avoidance of carbon emissions.



missions reductions and climate action frameworks to drive economic decarbonisation at lowest cost

Incentivise private sector investment in emissions reductions at scale



Global Market Signals The Paris Agreement





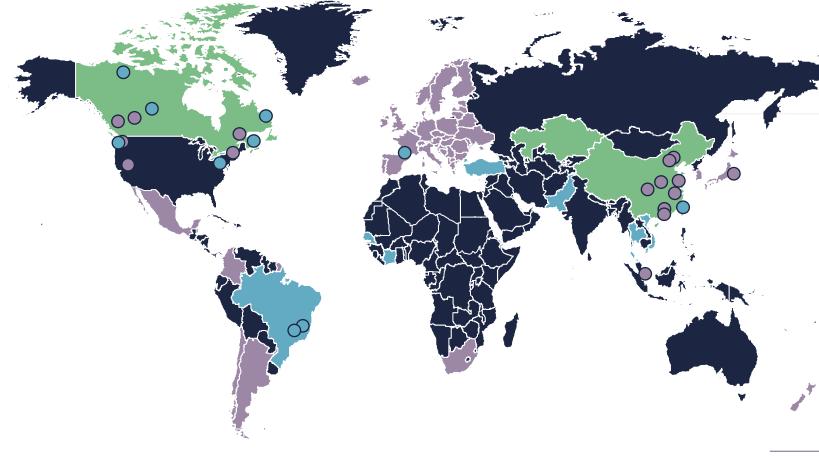
Carbon

Market Institute

Global Carbon Markets

National and subnational initiatives

Summary map of national or subnational carbon pricing initiatives that are implemented, scheduled or under consideration

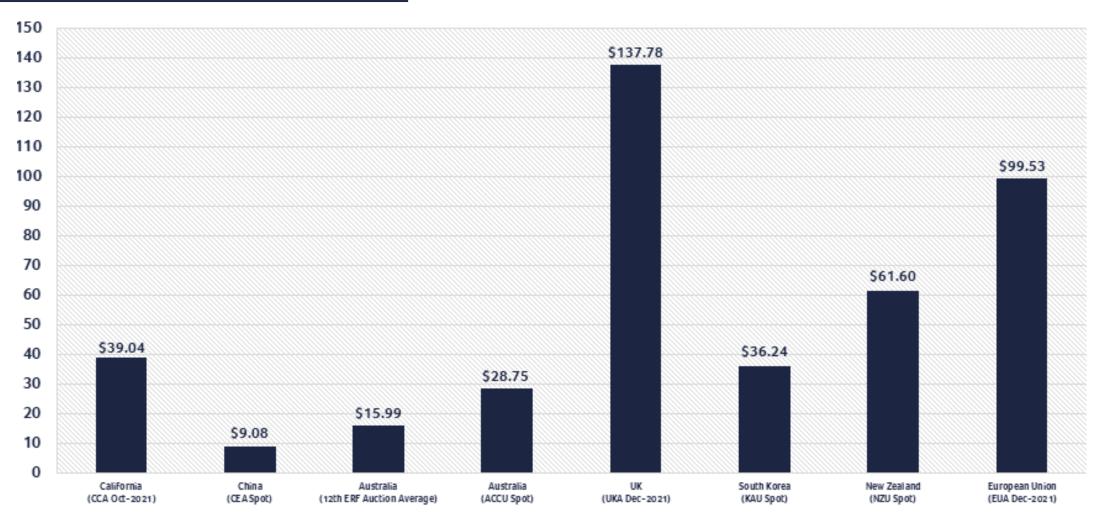


- 64 carbon pricing initiatives implemented or scheduled for implementation, with another 23 under consideration.
- **45** national jurisdictions are covered by these carbon pricing initiatives, with another **13** under consideration.
- **35** subnational jurisdictions are covered by these carbon pricing initiatives, with another **9** under consideration.



Global Carbon Prices (AUD)

Markets valuing carbon



Carbon Market Institute

Sources: CER | TFS Green | Jarden |Carbon Pulse | KRX | ICE | Commtrade ACCU Auction (13/4/2021); CEA (30/9/21); ACCU Spot, CCA, UKA, EUA (1/10/21); NZU (4/10/21) RBA exchange rates as at 1/10/2021



The Offset Marketplace Emission reductions





(VER)



Emission Reduction Tons (ERT)



Carbon Market Institute

Current Climate Active eligible offset units

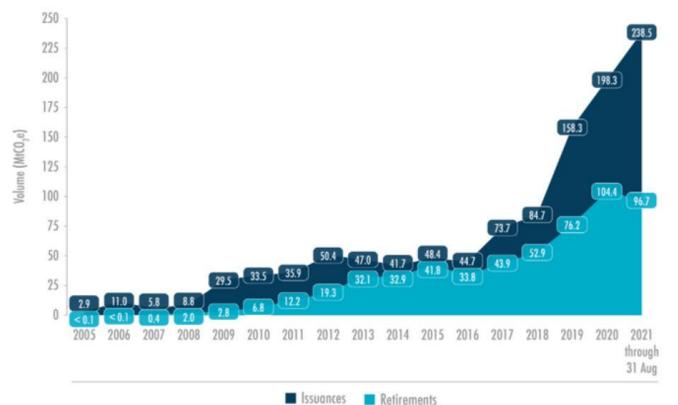
Emissions Reduction Projects Generating carbon credits

- Activities that reduce emissions can generate carbon credits.
- Projects and the carbon credits they generate are verified under different international standards.
- Projects can also provide co-benefits (social, cultural, economic and other environmental outcomes).



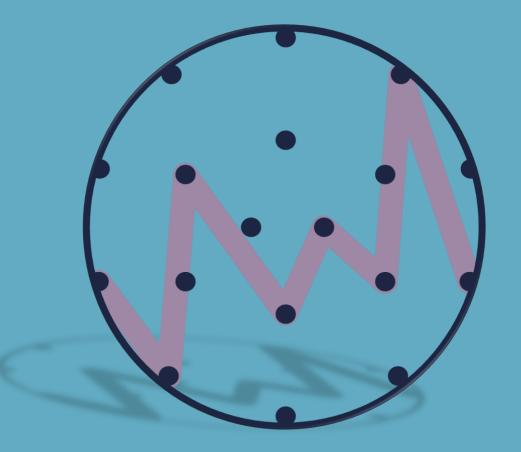
Carbon Market Developments Global growth and investment

- Global activity in the **voluntary carbon market** is rapidly expanding.
- New initiatives are developing to **scale the market** and **drive integrity**.
- Rules on carbon market mechanisms (Paris Rulebook, Article 6) will be a focus at COP26.



Carbon Market Institute

Ecosystem Marketplace, Insights Report: State of the Voluntary Carbon Markets 2021, Instalment 1 (September 2021) <u>https://www.ecosystemmarketplace.com/</u>



Australia's Carbon Market & Policy Landscape

Australian Policy Landscape Federal & State policies

Federal Climate Policy

• National emissions reduction target of 26–28% below 2005 levels by 2030

26-28% below 2005 levels by

2030

- Long-term policy review (due in 2021)
- Technology Investment Roadmap

Key Market Policy Mechanisms & Schemes

- Emissions Reduction Fund (ERF)
- Renewable Energy Target (RET)
- National Greenhouse & Energy Reporting (NGER) scheme
- Safeguard Mechanism

State Developments

Carbon Market

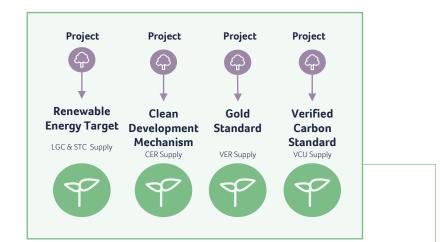
Institute

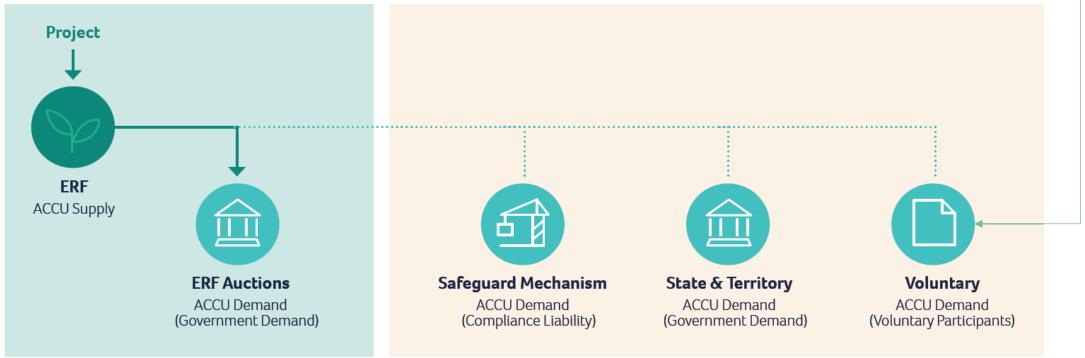
- Queensland Land Restoration Fund
- WA Carbon Farming and Land Restoration Program
- NSW 50% reductions by 2030

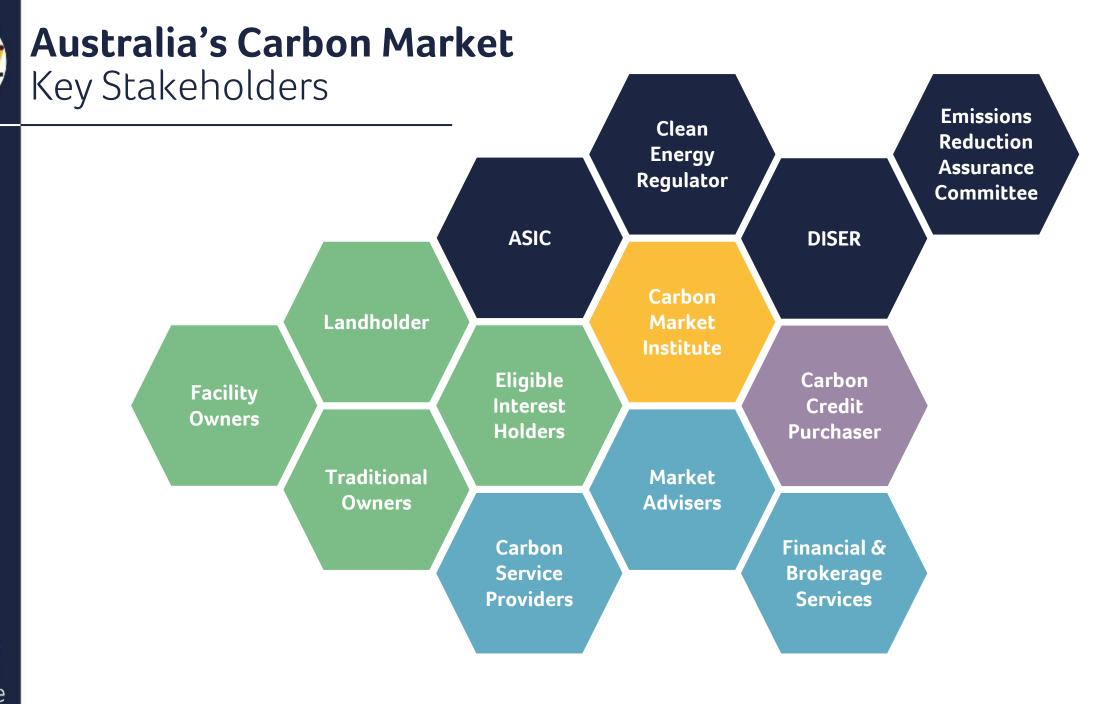


Australian Carbon Market

Compliance & Voluntary Activity









Australian Carbon Industry **Code of Conduct**





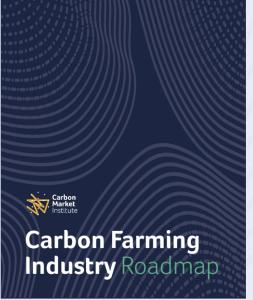










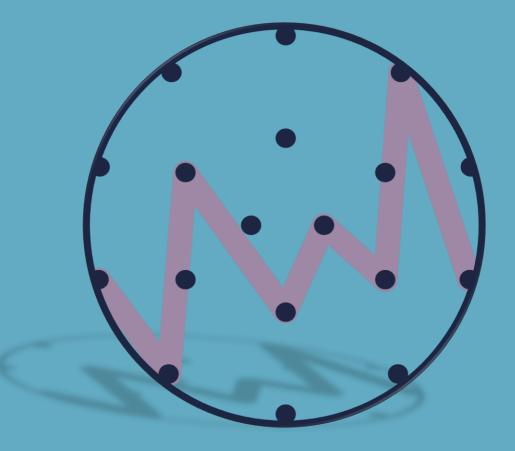




Australian Carbon Industry **Code of Conduct**

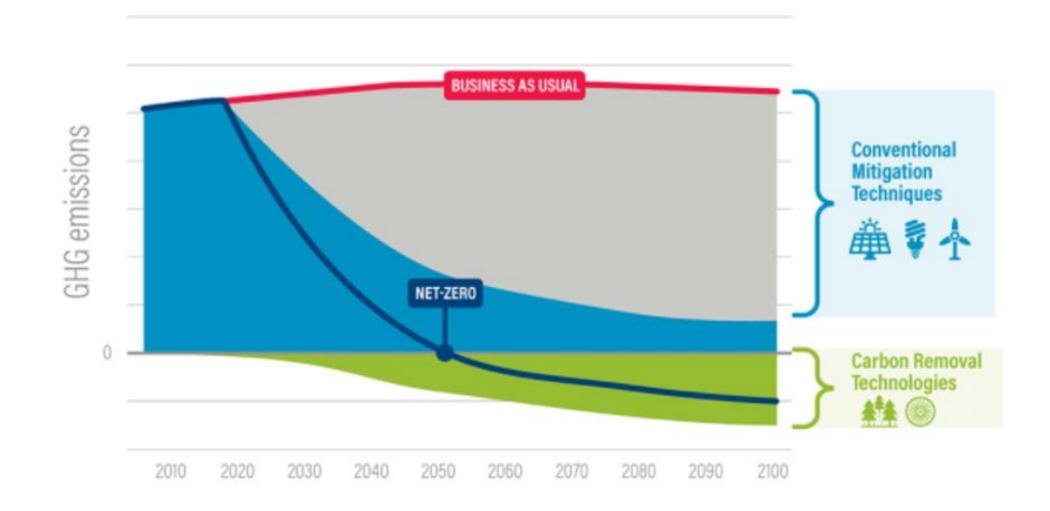
carbonmarketinstitute.org/roadmap

carbonmarketinstitute.org/code



Corporate Transition Pathways & Market Opportunities

Staying below 1.5°C Net-zero and net-negative emissions



Carbon Market Institute

Source: World Resources Institute (adapted from The Emissions Gap Report 2017, UN Environment)



Global Market Signals Corporate Drivers

Climate Risk = Financial Risk = Business Risk







Pathways to Action Market Opportunities

Understand your emissions profile & climate-risk exposure



2 Develop a climate strategy & identify targets & goals

 \ominus

Implement the strategy and communicate performance

3



Corporate Transition Responding to climate change

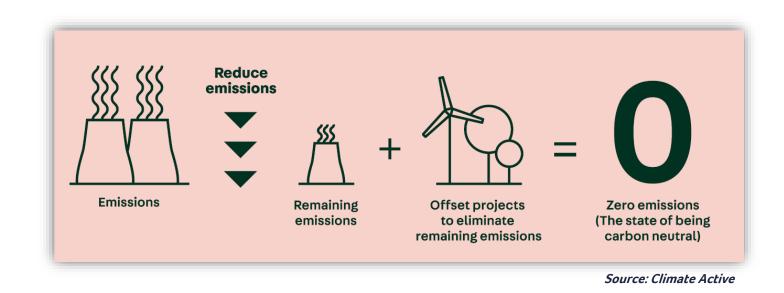




Corporate Transition Responding to climate change



Carbon Neutrality Certification Schemes







Carbon

Market

Institute

Corporate Ambition & Investor Expectations Voluntary Market Growth

Voluntary corporate commitments, investments, targets and actions are increasing.

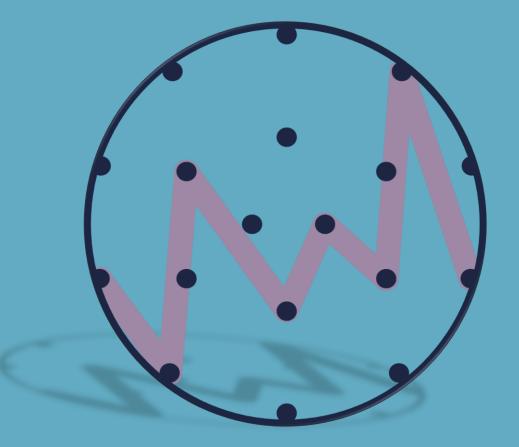
Investor, regulatory and stakeholder expectations are increasing.











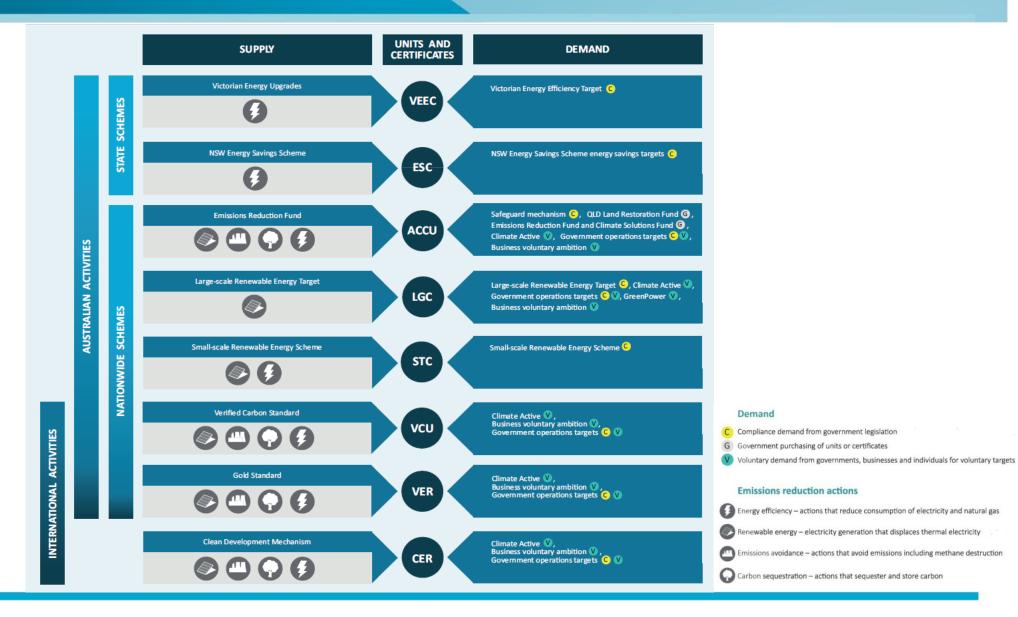
Australia's Domestic Carbon Market Schemes

Shakir Rahman

Assistant Manager, Economic Analysis, Clean Energy Regulator

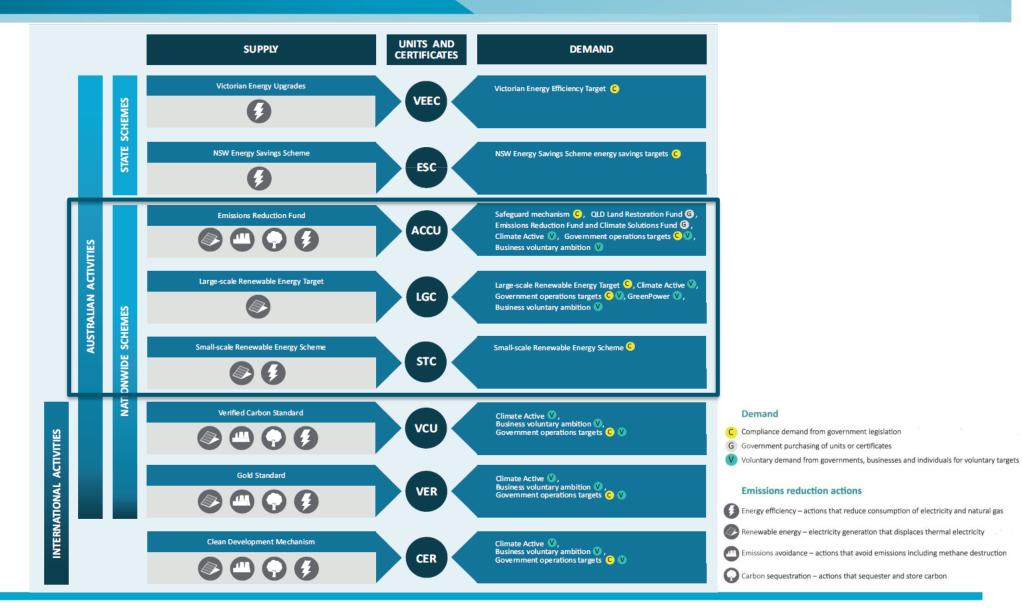
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Clean Energy Regulator

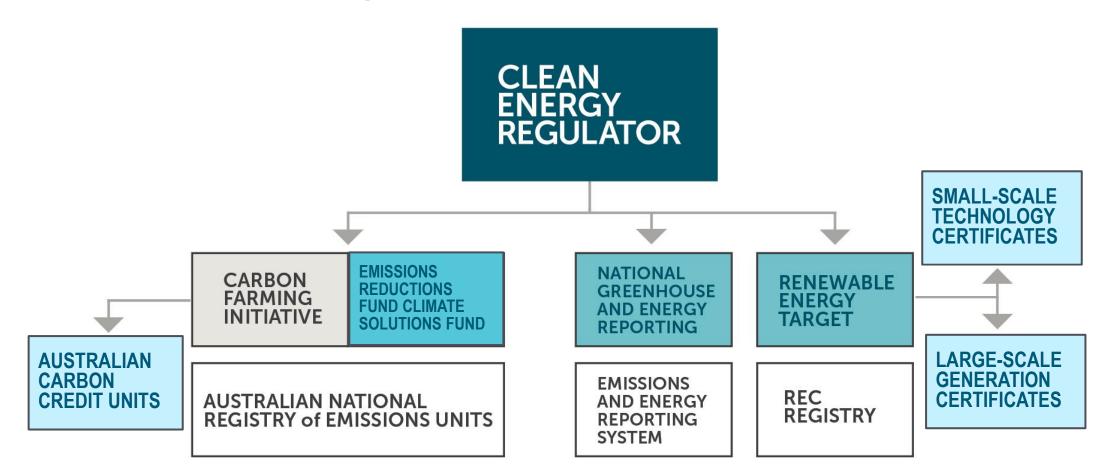


Carbon Market fundamentals

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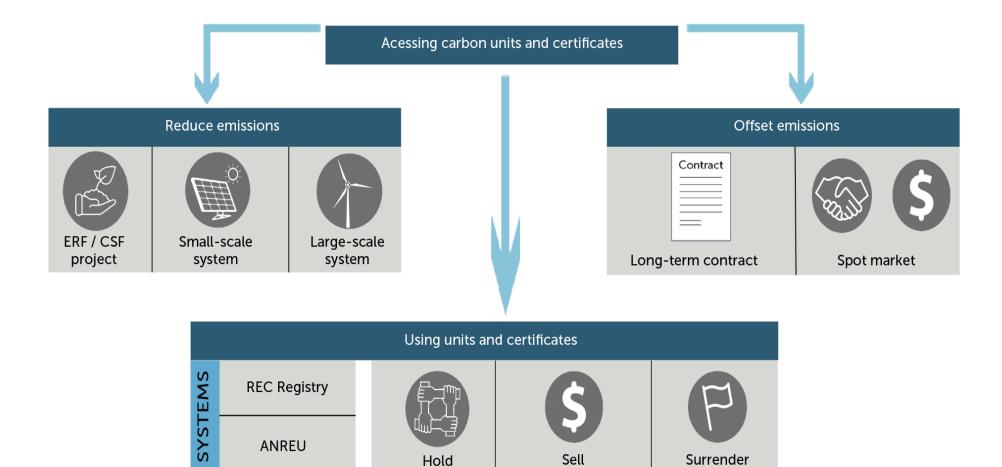


Accelerating carbon abatement for Australia

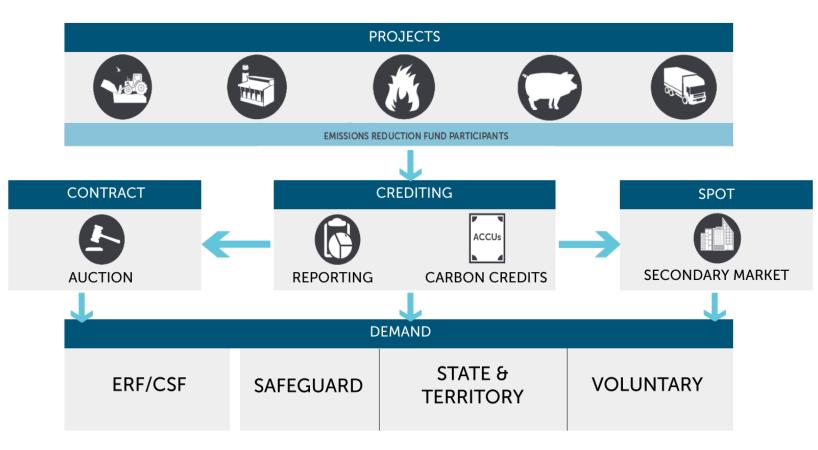


Australia's carbon units and certificates

- Australian Carbon Credit Unit (ACCU)
 - > 1 tonne of CO₂ equivalent sequestered or avoided
- Large-scale Generation Certificate (LGC) and Small-scale Technology Certificate (STC)
 - > 1 megawatt hour of electricity generated from renewable energy, displacing electricity from fossil fuel generation



Overview of the ACCU Market

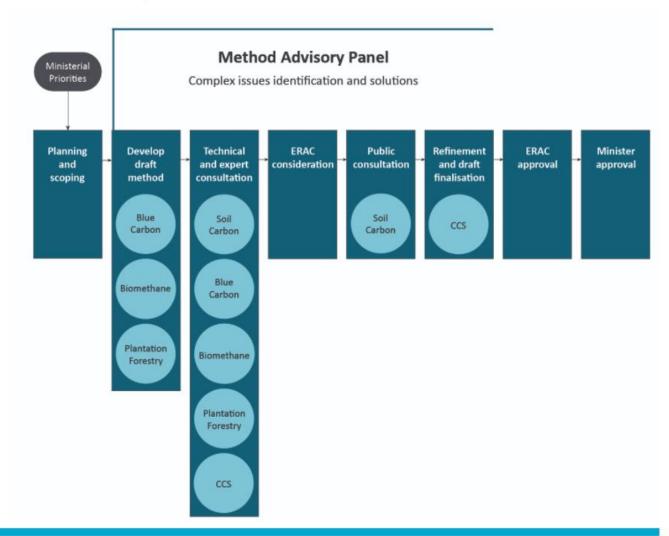


ERF projects registered and ACCUs issued by method type



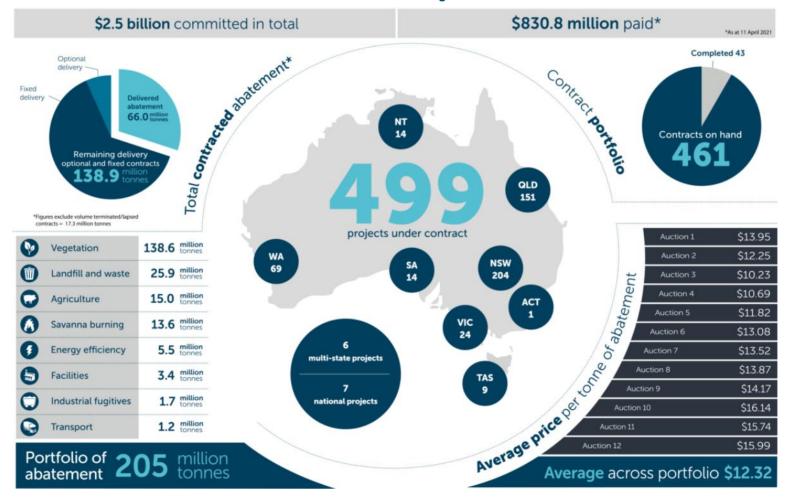
Method development priorities 2021

- Soil carbon
- Carbon capture and storage
- Biomethane
- Plantation forestry
- Blue carbon

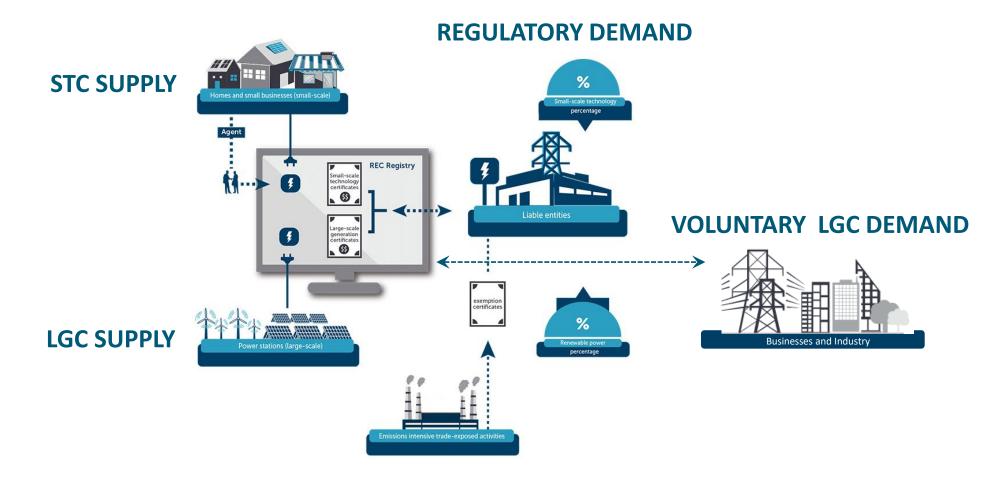


Method development tracker

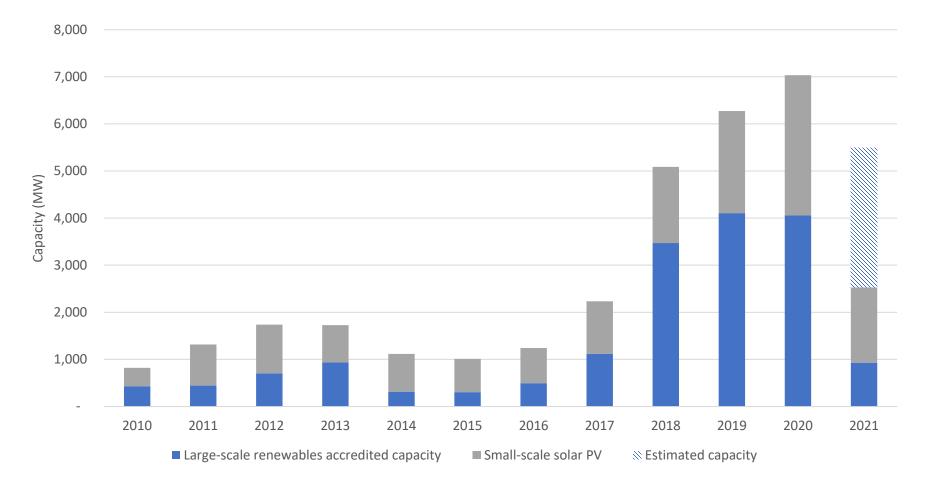
ERF contract portfolio



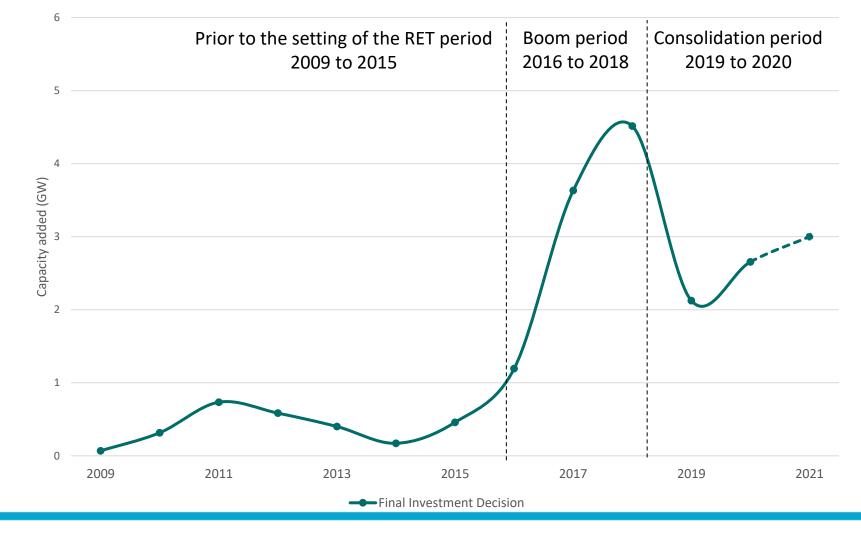
Overview of the STC and LGC markets



Estimated installed renewable energy capacity

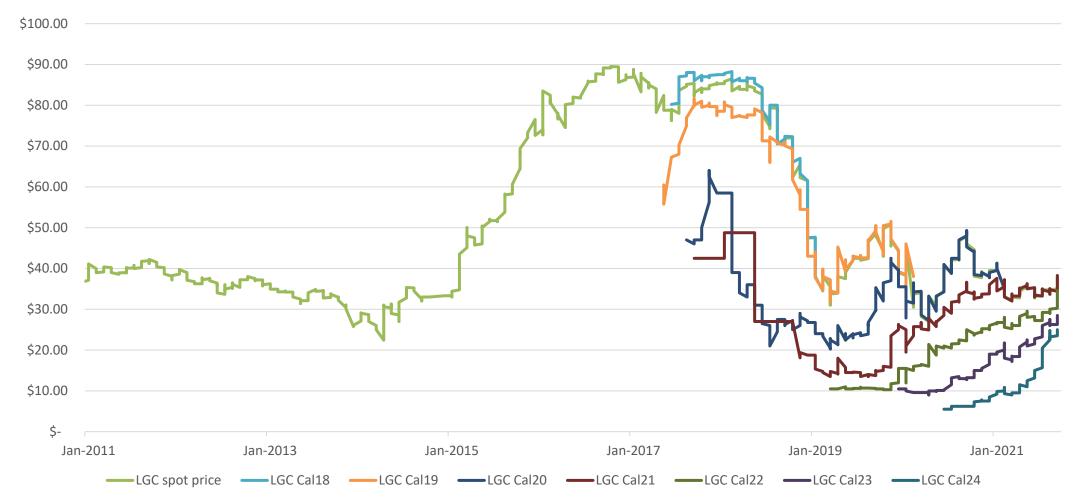


Large-scale wind and solar investment



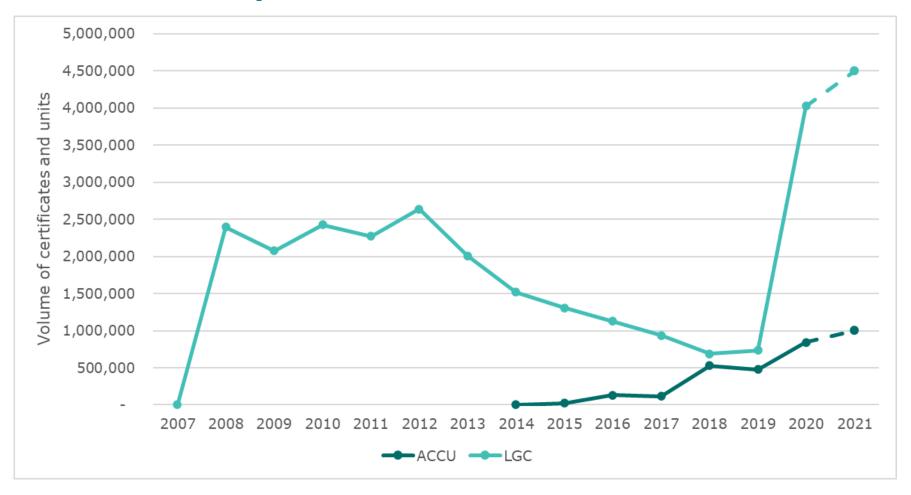
Carbon Market fundamentals

LGC prices – spots and forwards



Carbon Market fundamentals

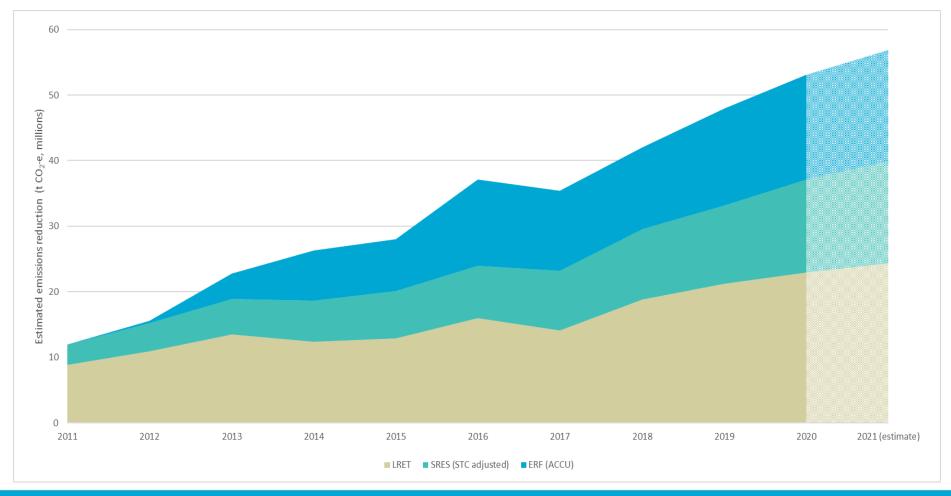
Voluntary demand of ACCUs and LGCs



Sourcing and trading ACCUs and LGCs

| Australian Government Clean Energy Regulator Client Portal | Logn | |
|--|---|---|
| Sign Up I Terms and conditions 2 Applicant details 3 Security details | Client Portal Skip to content Terms and conditions YOU MUST READ AND ACCEPT Th REC Registry BY CLICKING ON THE "AGREE" BU CONDITIONS SET OUT ON THIS PAREE TO THE TE IF YOU DO NOT AGREE TO THE TE Home About the REC Registry Public registers STC calculators Apply for an account | Username: Password: Australian Government Clean Energy Regulator of Emissions Units |
| | 1. Definitions Account means an electronic accour Tools. Account Holder means a netotronic accour Tools. Account Holder means a netotronic accour Tools. Account Holder means a person wh Acts and Regulations means all leg Online Tools means the Regulator's a. Client Portal; Derinsisons and Energy Report C. Information Portal; MEC Registry; e. STC Clearing House; f. Renewable Energy Target (R) a. Australian National Registry of h. Online forms; and i. any other tool of facility the Cl Portal or Client Portal means the int REC Registry means one or more of | The Clean Energy Regulator administers the National Greenhouse and Energy Reporting System (NGERS), the Emissions Reduction Fund and the Renewable Energy Target. Organisations or individuals that wish to hold Kyoto units in Australia, or ACCUs are required to have an ANREU account. If you wish to open an ANREU account please follow this link: Get more information on opening an account |
| | Accessibility Contact us Privacy Terms and conditions Glossary | Registered users may login to ANREU. Log In View publicly available reports for the Registry. Public Reports Contact the ANREU Administrator Contact |

Emissions Reduction from ERF and RET, 2011 to 2021



Carbon Market fundamentals

Have a question?

Economic Analysis team

Clean Energy Regulator

markets@cleanenergyregulator.gov.au





Market Resources Online

CMI's Carbon Marketplace carbonmarketinstitute.org/markets

Clean Energy Regulator Markets Hub cleanenergyregulator.gov.au/Infohub/Markets

CER Quarterly Carbon Market Reports

cleanenergyregulator.gov.au/csf/market-information/Pages/quarterly-Market-report.aspx

Carbon Industry Code Of Conduct carbonmarketinstitute.org/code

CMI's Factsheets carbonmarketinstitute.org/fact-sheets

Climate Active Carbon Neutral Certification climateactive.org.au

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Carbon Market Institute



business leading transition

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