

# Carbon Markets

## An overview



### What are carbon credits?

A carbon credit is the tradeable component of a carbon market. A carbon credit is a unit generated from a project that either stores or avoids the release of greenhouse gas emissions into the atmosphere. One carbon credit is typically equivalent to one tonne of carbon dioxide or equivalent gas (tCO<sub>2</sub>e). In Australia, we have the Australian Carbon Credit Unit (ACCU) which is a regulated, tradeable financial instrument.

### What is a carbon market?

A carbon market is a market-based solution which puts an explicit value on greenhouse gas emissions and creates a tradeable entity – a carbon credit – for activities that reduce, store or avoid these emissions. Carbon markets can support both compliance and voluntary purchases.

Compliance carbon markets are utilised where government policy requires industry or organisations to reduce their emissions. While best practice compliance involves directly reducing emissions at their source, decarbonisation solutions are not commercially available for all industries. Where these solutions are not available, an entity may meet their compliance obligations by purchasing carbon credits to offset their emissions.

Voluntary carbon markets enable entities not covered by a compliance obligation to invest in climate action, often in line with voluntary climate targets. Voluntary markets are generally governed by third party, non-government verification frameworks.

### Why do we need carbon markets?

To slow down and reverse the impact of climate change, the world must decarbonise, by firstly avoiding and reducing emissions from operations and supply chains, and then by offsetting the remaining emissions with carbon credits.

There is also an imperative to invest in carbon projects that draw down greenhouse gases (known as sequestration) beyond the value chain. This can be referred to as beyond value chain mitigation (BVCM) and recognises the ongoing impacts of historic greenhouse gas emissions.

By purchasing carbon credits, an organisation or individual is able to address emissions it is unable to eliminate. For example, the replacement of fossil-fuel driven energy production is one way to significantly reduce emissions, however carbon credits may be used for some emissions that are hard-to-abate, or to compensate for historic emissions.

By putting a price on greenhouse gas emissions, carbon markets encourage businesses to find ways to reduce their emissions. Carbon markets – and their associated reporting standards – provide a framework to meet climate targets, while also providing the opportunity to link with international markets. Research has shown that companies that engage in carbon markets are more likely to invest in direct emissions reductions where there is available technology.<sup>1,2</sup> This is because by purchasing carbon credits, organisations quantify their emissions and effectively adopt an internal price on pollution. In turn, this financially incentivises behaviours that reduce polluting activities.

### The Australian carbon market

The Australian carbon market is referred to as the Australian Carbon Credit Unit (ACCU) Scheme, which is a legislative framework enabled by the Carbon Farming Initiative (Carbon Credits) Act 2011, and Rule 2015. The ACCU Scheme is administered by the Clean Energy Regulator, with demand for ACCUs coming from both compliance and voluntary sources.

#### Compliance demand

The Safeguard Mechanism is the primary compliance demand source for ACCUs. The Safeguard Mechanism is a framework, which covers Australian facilities with annual scope 1 emissions greater than 100,000 tCO<sub>2</sub>e. In 2022 the government consulted on reforming the Safeguard Mechanism into a baseline and credit system with steeper annual decline rates.

In July 2023 these reforms came into effect, which included the introduction of:

- A 4.9% annual decline rate on the annual emissions baseline
- Safeguard Mechanism Credits (SMCs), which facilities can earn if they reduce their emissions below the decline rate

If a facility exceeds the emissions baseline for a financial year, they can use ACCUs to meet 30% of their compliance obligation. If a facility needs to use further ACCUs to meet this obligation, they must disclose why further onsite abatement was not taken.

Facilities who may not be able to meet their compliance obligation can also:

- Apply to borrow from a future baseline
- Apply to receive an adjusted baseline as a trade-exposed baseline-adjusted (TEBA) facility
- Apply to extend their baseline to a multi-year monitoring period

<sup>1</sup> Ecosystem Marketplace, 2023, [All in on Carbon: The Role of Carbon Credits in Achieving Corporate Climate Strategies](#)

<sup>2</sup> MSC, 2024, [Corporate Emissions Performance and the Use of Carbon Credits](#)

