



# CARBON CREDITS & TES TECHNOLOGY

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Helping dairy farmers lower emissions and earn rewards through Thermal Energy Storage.



## WHAT ARE CARBON CREDITS?

Carbon credits are tradable certificates that represent a reduction of one tonne of carbon dioxide or equivalent greenhouse gas.

By installing sustainable technology like Thermal Energy Storage (TES), dairy farmers can significantly lower their on-farm energy use and emissions – allowing them to earn credits under approved environmental schemes.

These credits can then be sold or traded, providing an additional income stream for farms while supporting Australia's transition to a low-emissions future.

## WHY THIS MATTERS:

Agriculture is one of Australia's largest emitters of greenhouse gases – but it's also one of the most important sectors for climate solutions.

By investing in technologies like TES, farmers are not only reducing emissions and power bills, but also contributing to national sustainability targets.

Carbon credit programs offer recognition – and reward – for these efforts, while encouraging further innovation and clean energy adoption in the industry.

# HOW TO ACCESS CARBON CREDITS



Turn your farm's energy-saving efforts into valuable carbon credits by following this step-by-step process.

## STEP 1: UNDERSTAND ELIGIBILITY

You may be eligible to claim carbon credits if your farm:

- Reduces greenhouse gas emissions
- (e.g. through renewable energy, energy-efficient cooling, or reduced fuel use)
- Stores carbon
- (e.g. soil carbon projects or tree planting)
- Displaces fossil fuel consumption
- (e.g. switching from diesel to solar)

These actions help lower your carbon footprint and position you to benefit from Australia's carbon credit markets.



## STEP 2: CHOOSE A RELEVANT SCHEME

In Australia, the primary scheme is: **Australian Carbon Credit Units (ACCUs)** under the **Emissions Reduction Fund (ERF)**, managed by the **Clean Energy Regulator**.

You can also explore voluntary carbon markets or third-party offset programs depending on your goals.

## STEP 3: REGISTER A PROJECT

To get started, your emissions-reduction activity must be registered under an approved **carbon credit methodology**.

For most farmers, this might include:

- **Energy Efficiency** (e.g. lowering power consumption from refrigeration)
- **Renewable Energy** (e.g. solar-powered systems)
- **Agricultural and Land Management** (e.g. improving soil carbon)

Registration is usually completed through the **Clean Energy Regulator's platform** or with the help of a carbon project consultant.



# HOW TO ACCESS CARBON CREDITS

*Continued: Final Steps to Complete the Process*

## STEP 4: MONITOR & REPORT

To generate credits, you must accurately **measure and report your energy savings** over time.

This typically involves installing meters or collecting data from energy systems, then submitting regular reports to the Clean Energy Regulator.

Accurate reporting is essential for credit verification and ensures ongoing program compliance.

## STEP 5: VERIFICATION

An independent auditor will **verify your reported data** to confirm that the emissions reductions are valid.

Verification usually occurs annually or as outlined in your registered project.

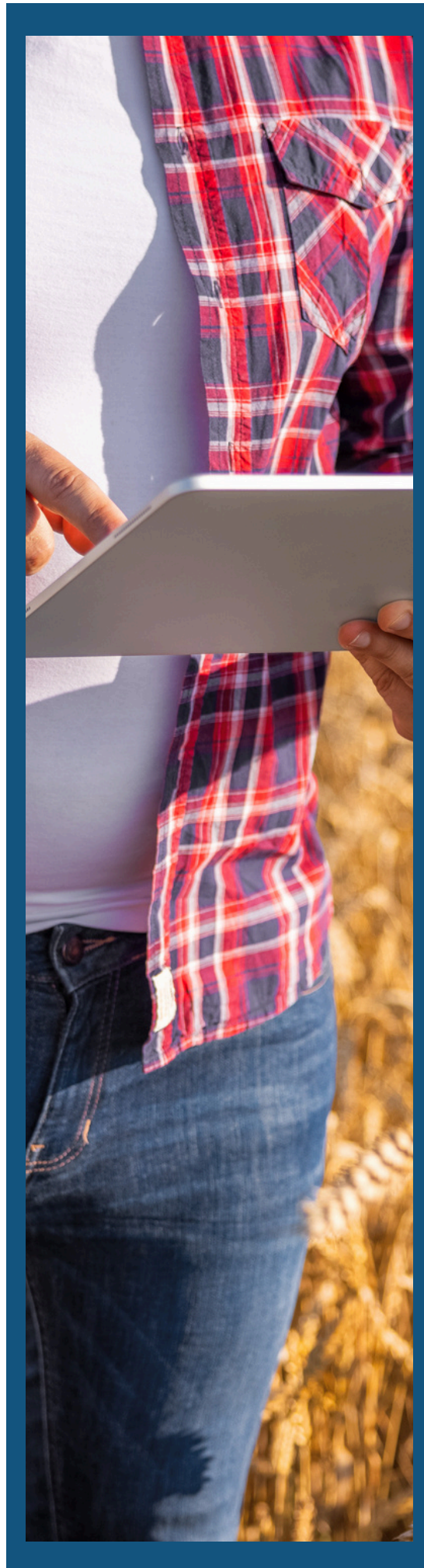
Once verified, you become eligible to receive Australian Carbon Credit Units (ACCUs).

## STEP 6: EARN & SELL CREDITS

After verification, you'll receive carbon credits, which can be:

- Sold directly to buyers (e.g. corporations seeking offsets)
- Traded through carbon marketplaces
- Retained for future use or voluntary offsetting

This final step turns your energy efficiency investment into ongoing financial returns, making your farm more sustainable and economically resilient.





# KEY BENEFITS OF TES FOR CARBON CREDIT ELIGIBILITY

*Why Thermal Energy Storage is a smart investment for sustainable, low-emission farming.*

## ✓ ENERGY EFFICIENCY

TES systems reduce refrigeration energy demand, especially during peak hours, helping cut electricity bills.

## ✓ LOWER EMISSIONS

Reduced reliance on fossil fuels and compressors translates to lower greenhouse gas output – a core eligibility factor for carbon credits.

## ✓ SOLAR & OFF-PEAK COMPATIBILITY

TES integrates with solar and off-peak electricity, aligning with carbon methodologies like Energy Efficiency and Renewable Energy.

## ✓ ACCU EARNING POTENTIAL

Farmers using TES can earn Australian Carbon Credit Units (ACCUs) under the Emissions Reduction Fund (ERF) – turning energy savings into revenue.

## ✓ IMPROVED SUSTAINABILITY PROFILE

Participation in carbon credit programs contributes to national sustainability targets and strengthens a farm's environmental credentials.

## ✓ FUTURE-PROOFING YOUR FARM

Investing in TES prepares farms for rising energy costs and growing pressure to decarbonise agriculture.

**Thermal Energy Storage (TES) isn't just a cooling solution – it's a strategic investment in a cleaner, more efficient future.** By reducing on-farm emissions, lowering energy bills, and supporting carbon credit eligibility, TES helps dairy farmers stay ahead of rising energy costs and sustainability regulations. It's a smart, scalable step toward long-term environmental and financial resilience.

# GETTING STARTED WITH TES & CARBON CREDITS



*Take the first step toward a smarter, cleaner and more profitable farming future.*

## CONTACT & SUPPORT

Ready to explore TES or claim carbon credits?

Barry Brown & Sons can help with:

- TES system consultation & installation
- Guidance on carbon credit eligibility
- System monitoring integration
- Ongoing support for compliance and reporting

### Learn More or Begin Your Application

Scan the QR code to visit the Clean Energy Regulator's official page on the Australian Carbon Credit Unit (ACCU) Scheme:



### Contact us:

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*Proudly supporting Australian dairy farmers with smarter energy solutions and sustainable outcomes.*