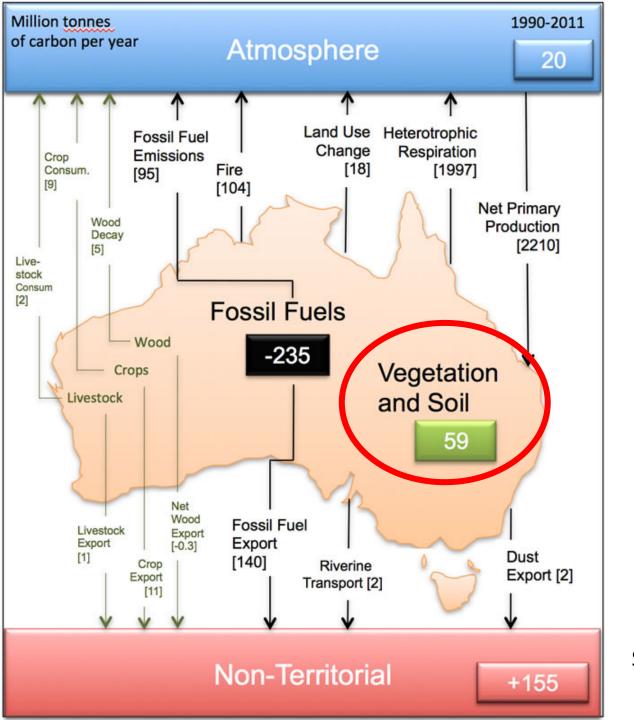
Navigating soil carbon projects for vegetable growers





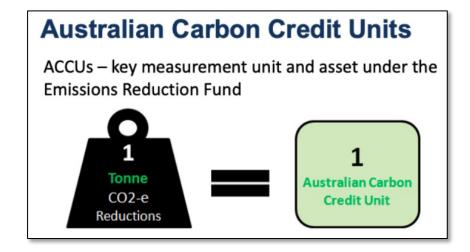
Carbon Budget for Australia

Source: CSIRO Carbon Water Observatory (2013)

Let's talk business...



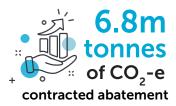




Emissions Reduction Fund 13th Auction 13-14 October 2021

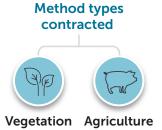
Released 22 October 2021





Average price per tonne of abatement \$16.94



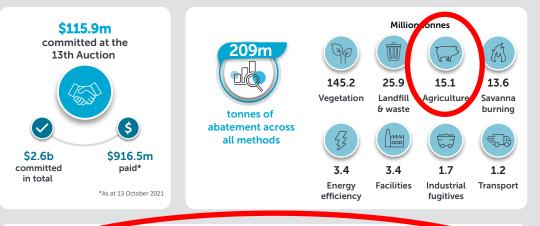


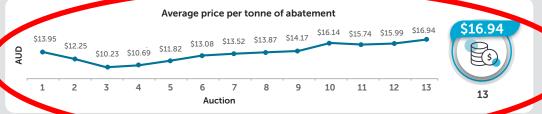




Emissions Reduction Fund Contract portfolio



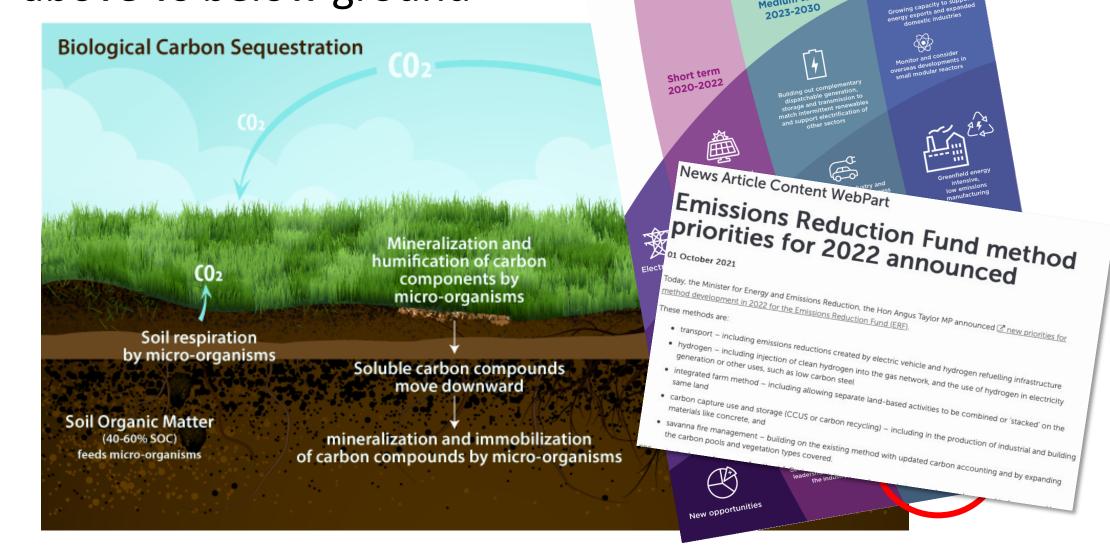






Carbon project options for vegetable growers?

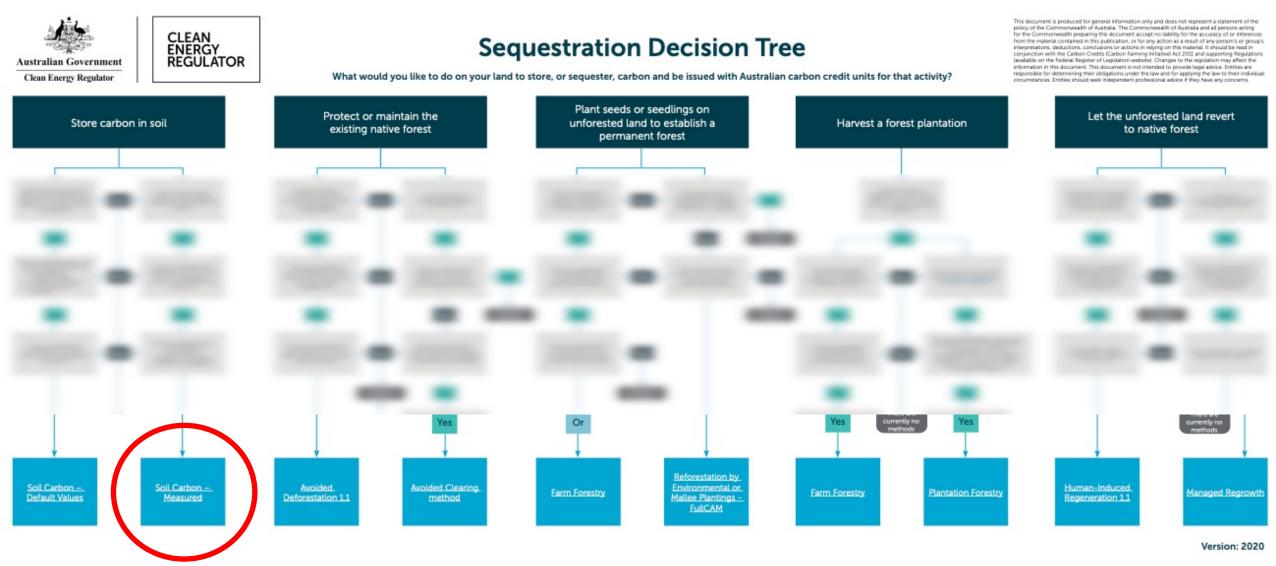
above vs below ground



Long term

Medium term

Current options within the ERF?



http://www.cleanenergyregulator.gov.au/ - Opportunities for the land sector

Questions to ask yourself

Is the measurement of soil carbon sequestration in agricultural systems method suitable for your business?

- Are you looking to store carbon in soil in a grazing or cropping system, including perennial woody horticulture?
- Are you willing to undertake one or more new land management activities to increase soil carbon?
- Are you willing to measure the increase in soil carbon?
- Are you willing to maintain stored carbon for at least 25 years after the first Australian carbon credits units are issued?

If you have answered yes to these questions, the measurement of soil carbon sequestration in agricultural systems method **may** be suitable for you.

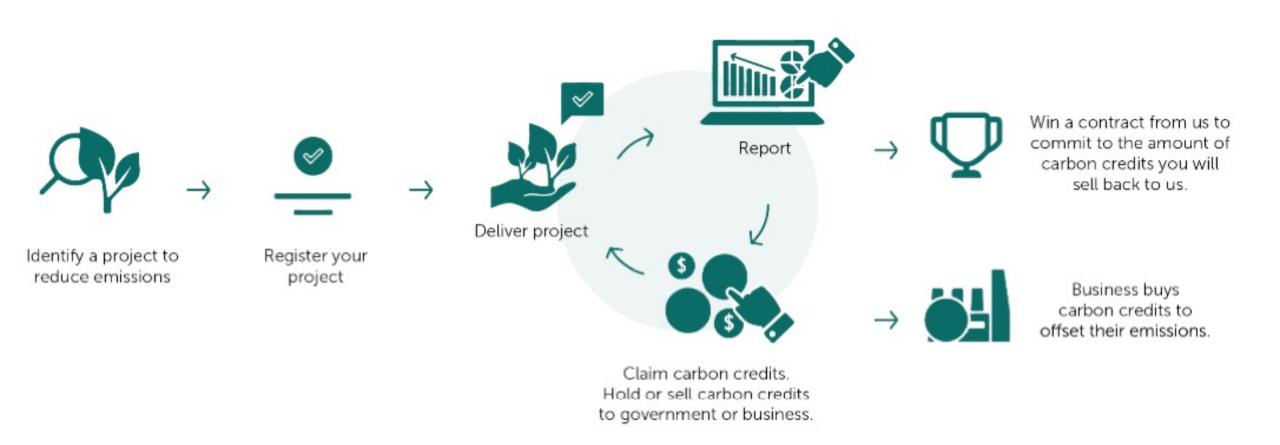
Additionality!

Eligible 'new' activities

- apply nutrients to the land
- apply lime to remediate acid soils
- apply gypsum to remediate sodic or magnesic soils
- undertake irrigation activities from new irrigation efficiency savings
- re-establish or rejuvenate a pasture by seeding establishing, or permanently maintaining, a pasture where there was previously no pasture, such as on cropland or bare fallow
- retain stubble after a crop is harvested
- convert from intensive tillage practices to reduced or no tillage practices
- modify landscape or landform features to remediate land (e.g. undertake water ponding), or
- use mechanical methods to add or redistribute soil.

How to participate?

(more simplicity according to the ERF)



What does it really look like?

(looking over the fence at pasture)

Registration - \$0

Baseline - \$15-\$40/ha

Variability is based on stratification e.g. Vegetation types, management practices, topography, underlying geology, history of crops







Identify a project to reduce emissions

Register your project

Life cycle = 25 years

1 ACCU = 1 tonne CO2-eq

100 credits sequestered = 45% saleable credits

Practice Change - \$50-\$350/ha

Capacity building & training - \$7,000/yr for first five years

Agronomic support, dashboards, training

Issuance 1 (after 5 years then every 5 years)

Sampling - \$12-\$32/ha

(~80% baseline) / issuance

Audit - \$30,000

Once off 1st issuance

Apply discounts!

5% Risk of reversal buffer 50% Discount in methodology

Sale price = \$16.94/ACCU

Or sell on voluntary market







Win a contract from us to commit to the amount of carbon credits you will sell back to us.



Business buys carbon credits to offset their emissions.

*Method – Measurement of soil carbon sequestration in agricultural systems method

Weighing up the options

- Compliance costs
- Time commitment
- Permanence obligations
- Complexity
- Likelihood of outcomes (what carbon storage is possible?)
- Changed management practices
- Opportunity cost does income exceed project establishment cost

- Productivity gains improved soil health, water holding capacity, cation exchange capacity, soil biological function
- Biodiversity and ecosystem services
- Improved land value
- New market opportunities
- Diversified income stream



