Which of the following best describes your situation?

Research and academia

Are you responding on behalf of an organisation or industry body?

No

How would you like to respond?

a. Answer discussion paper questions via the online survey

What are the opportunities to reduce emissions and build carbon stores in agriculture and the land? What are the main barriers to action?

Enduring solutions that are socio-economic. By this I mean adoption of practices that have clear economic benefits using discounted cash flow models. I still feel that there is not enough local testing and development of local solutions - building carbon through local stores and practices.

How can we progress emission reduction efforts whilst also building resilience and adapting to climate change?

Many systems and producers have already adapted - the millenium drought confirmed this. In terms of emissions, it is as much about declining terms of trade versus being prepared to compromise on primary productivity output. It may also be that some farming and agricultural systems aren't in the right spots (climate, soil, risk) and that perhaps there should be incentives to support transition in and out of agricultural industries.

Are there initiatives or innovative programs underway that could be applied or expanded on at a national scale?

Focusing on a local solutions approach - developing guidelines and key areas of focus that enable all regions across Australia to propose local trials/experiments/demonstrations that can then be more widely adopted through trust and information sharing.

How can the Australian Government bring together existing effort and new initiatives into one coordinated plan?

Perhaps the plan is an enabling plan - allow those on the ground to drive the solutions within a designated framework that will lead to higher adoption rather than a top-down approach to emissions reduction.

What are the most important options to be further adopted or supported, looking in the short and the longer-term?

Revegetation for multiple outcomes - biodiversity, local climate mitigation and transformation, agricultural produce - wood/biochar/soil amendments/energy production. Changes to plants and co-habitation/transformation of soils into larger stores of carbon and nutrients will all contribution to emissions reduction.

What are the practical solutions to increase uptake?

As above - local solutions that are relevant to relevant ecosystems.

How do you see the agriculture and land sectors contributing over the medium and longer-term? What are the opportunities to deliver emission reductions in parallel with wider goals?

Longer-terms local trials and experiments that build trust in the community and are the right fit for land/soil/agricultulture/biodiversity/human assets in that region.

How can the Australian Government better support agriculture and land sectors to:

a) drive innovation

b) build capacity

c) ensure the system enables emissions reductions

Again - local solutions for a global problem. This will also help create enduring local industries to support and supplement. This should all be under a national guidance framework for emissions reduction and production increases (agriculture/water/biodiversity/human).

What new initiatives could the Australian Government design that would support emissions reduction and carbon storage in agriculture and land and help ensure a productive, profitable, resilient and sustainable future for the sectors?

Forestry, waste products (e.g. geotextiles), soil transformation, novel animal production systems.

A consistent and trusted approach for assessing and reporting emissions is often raised as a barrier to reducing emissions. Is there a role for the Australian Government in addressing this concern, and how can producers and land managers be supported?

Set out the framework and guidelines and have independent authority to review/assess local solutions to emissions amendment.

What skills, knowledge and capabilities do you think producers and land managers need to implement change? What information and data would help them make decisions about emissions reductions and sustainable land management in the short and longer-term?

Clear information that is tailored to the various agricultural production systems and opportunities for producers and land managers to achieve emissions benefits. Then link this to initiatives that support farmers on the ground to develop the solutions - they will be the innovators.

Do you have any additional views or feedback that you would like to include in your response?

No.

Is your response confidential?

No

Do you agree to your response being published on our website?

Yes

Please de-identify my response

Yes

I have read and understood the privacy notice and consent to the collection, use and disclosure of my personal information as outlined in the privacy notice.

Yes

Confirm that you have read and understand this declaration.

Yes