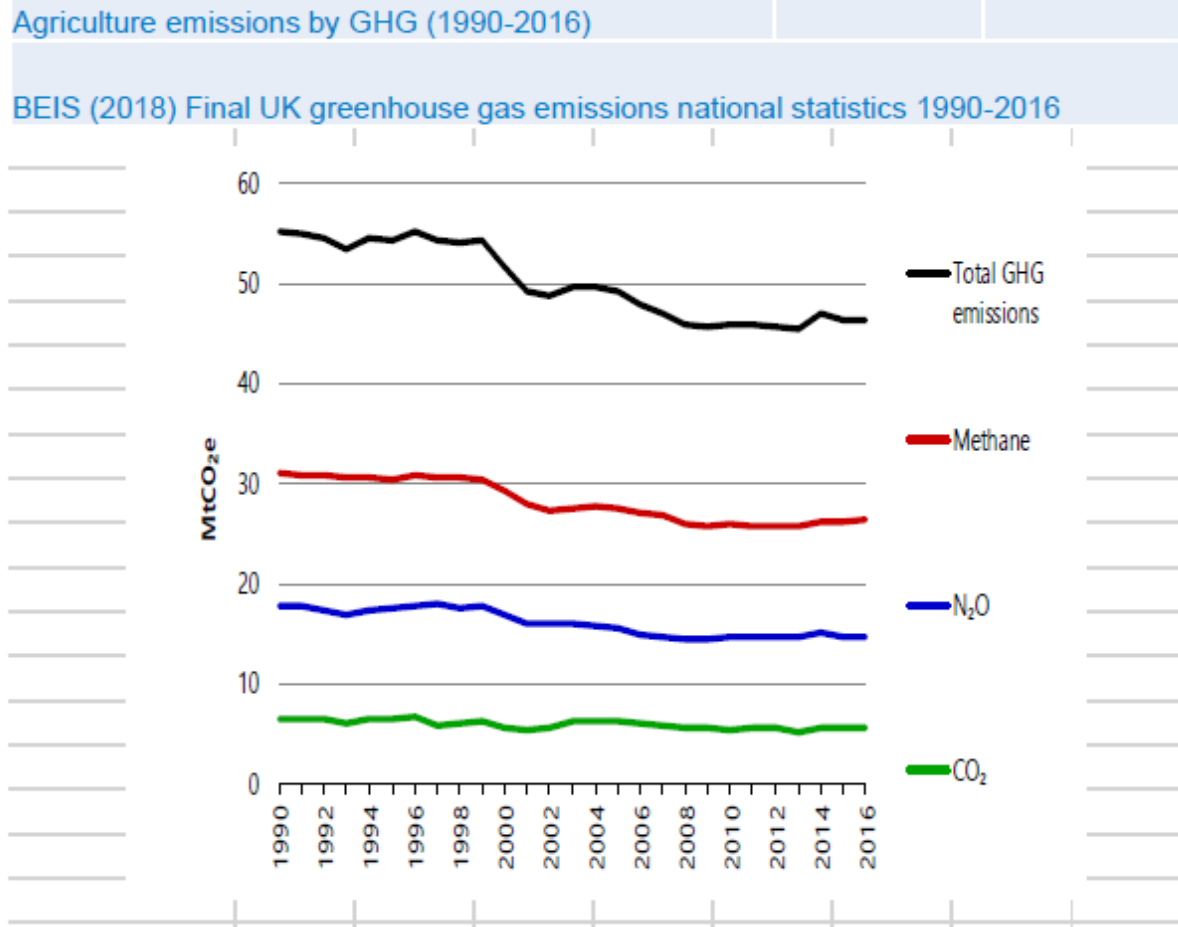


How the farming sector can reach net carbon zero and what help is needed

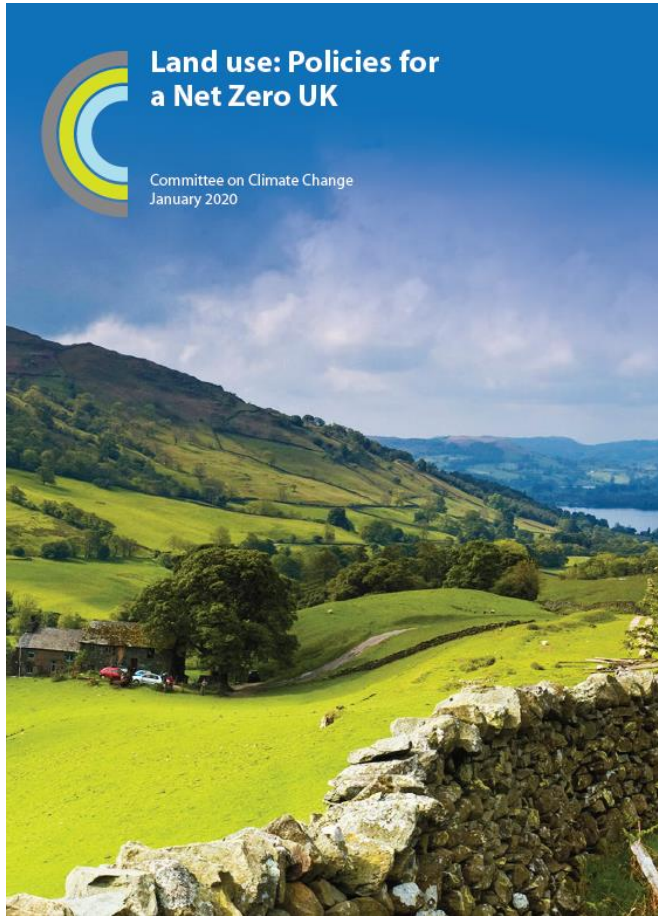


Adam Briggs
NFU NW Environment adviser

Where we have come from



Committee on Climate Change



- Increase tree planting
- Encourage low-carbon farming practices
- Restore peatlands
- Encourage bioenergy crops
- Reduce food waste and consumption of the most carbon-intensive foods

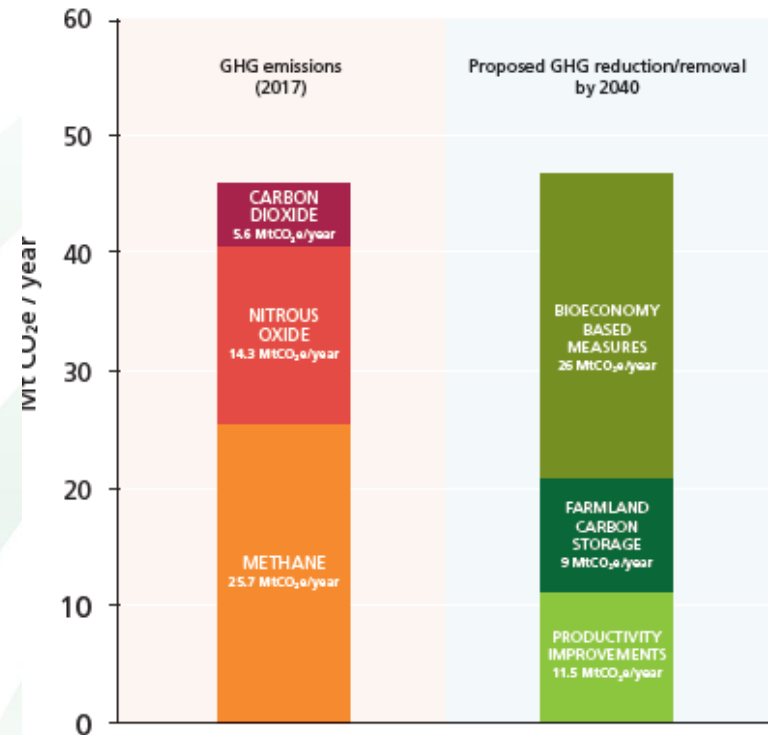
NFU supported by



'net zero' greenhouse gas emissions

- **'net zero' GHG emissions by 2040**
- Focus on three key areas:
 - improving farming's productive efficiency
 - targeted measures to increase and manage carbon storage on UK farms
 - boosting production of land-based renewable energy,

NFU report launched



Current (2017) agricultural emissions balanced against potential GHG reduction through productivity measures and GHG removals by various methods

Pillar 1

Boosting productivity and reducing emissions

Estimated GHG savings: **11.5 MtCO₂e/year**

Wide variety of measures, from controlled release fertilisers and inhibitors to feed additives, advanced breeding, energy efficiency, on-farm AD

Pillar 2

Farmland carbon storage

Estimated GHG savings: **9 MtCO₂e/year**

Enhanced hedgerows, increased tree planting, measures to boost soil organic matter

Pillar 3

Coupling bioenergy to carbon capture, utilisation and storage

Estimated GHG savings: **Up to 26 MtCO₂e/year**

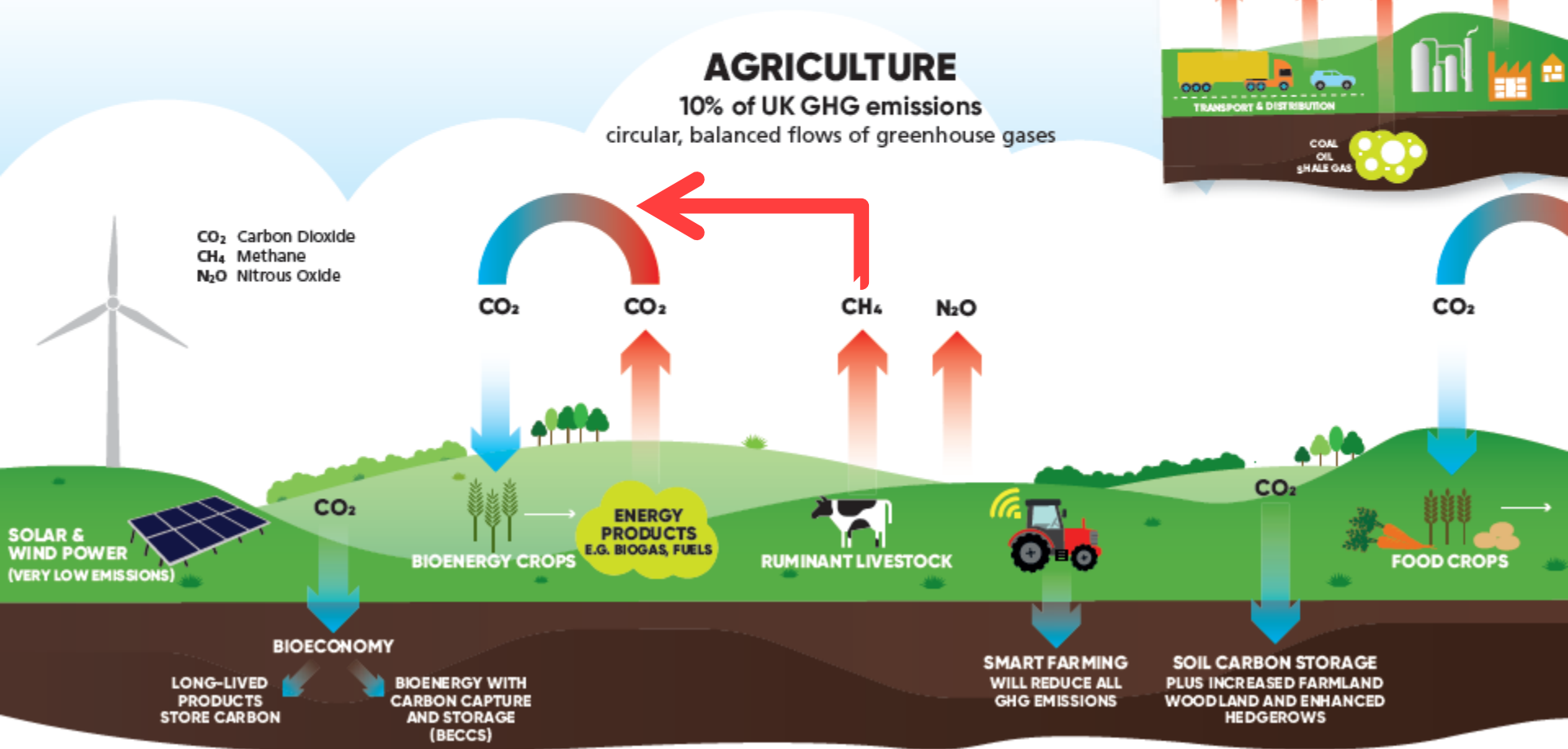
Farm-scale technologies and supply chains, plus bio-based materials, further displacement of fossil fuel emissions by renewables, and novel soil amendments

NFUnited
There's strength in members.

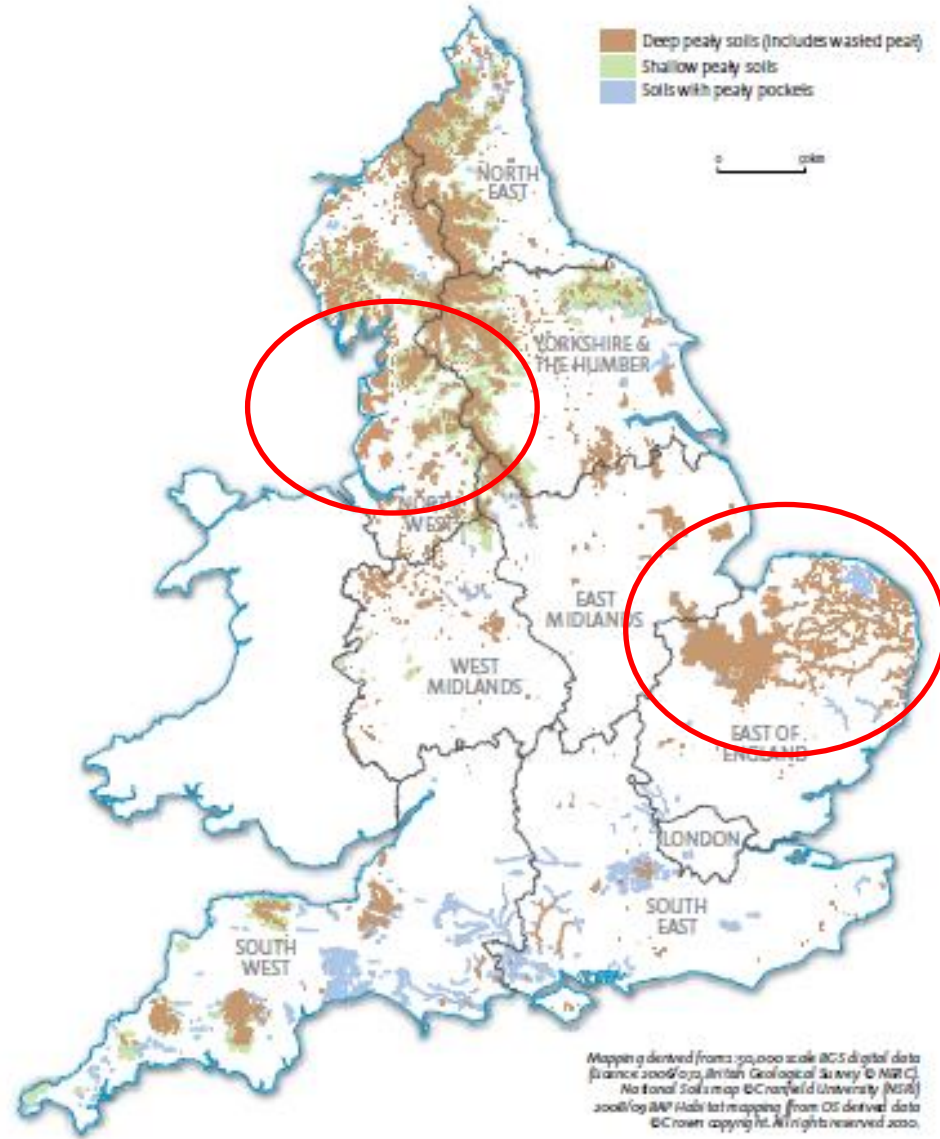


Why agriculture is part of the solution to climate change

Agriculture, and the land-based economy, can play a key role in tackling climate change. It is uniquely placed to capture the major greenhouse gas – carbon dioxide (CO₂) – from the air and turn it, with the help of farmers, into a wide range of foods, fibres and fuels. By enhancing this ability to capture carbon we can use it to generate “negative emissions” – actively removing CO₂ from the atmosphere and balancing agriculture’s emissions of methane (CH₄) and nitrous oxide (N₂O) from food production.



Challenge....



Peat.....

- Challenge particularly in the lowlands
 - Fens cover less than 4% of England's farmed area but produce over 7% of the country's total agricultural production
- Technology/techniques to manage and protect peat soils, as well as to optimise their potential for growing
 - Tree planting
 - Cover crops
 - Min/Zero Till
 - Peat Alternatives
- Help?