Appendix 3

In this guide

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Table 3. Summary of responses: Are there other changes (at any stage of development) aimed at achieving net zero that you expect to make an impact? What are they?

			Farmers &	
Category	Academia	Manufacturing	veterinary	Other
			surgeon	

- Gene editing
- For crop and livestock resilience
- Livestock and rumen microbes as part of the pangenome approach
- Supply shed natural climate solutions
- Novel carbonstoring soil (biochar, enhanced rock weathering)
- Alternativ the Habe bosch pro
- Controlle environm farming (

Farming methods

- Land use
- Balance between for agriculture and for carbon storage

amendments

- Green energy
- Bioenergy
 with carbon
 capture and
 storage not
 in the food
 system, but
 uses land so
 will affect
 the food
 system
- Replace
 water
 heated,
 jacketed
 pipework
 with lower
 energy
 electrical

systems

Energy

- Solar
 powered
 thermally
 efficient
 systems
 working at
 the 50-95
 degree
 Celsius
 range.
- Energy reduction

- Green energy
- Governmental support for the development of new sustainable energy technologies to replace hydrocarbon use
- Clean
 hydrogen
 instead of
 methane as a
 gas supply.
- Fusion

- Green en
- Electrifica
- Decarbor of crop sy grown in tunnels
- Hydroger economy investme government
- Carbon confor soil
 sequestra

Government

- Governm investme
- Adoption National | Strategy

Transport

- Shorter supply chains
- Reduced car use post Covid; reduced flying.

- Move to predominantly sea freighted / road transported imported produce away from Air freight.
- Vehicle electrification

Consumer diet change

- Public attitude and education, cultured meat expansion and acceptance and fermented meat substitutes expansion and acceptance.
- Reducing import of animal protein from high Greenhouse Gas (GHG) emission intensity systems
- 'Quality not quantity' changes in consumer eating habits.
- Consume being par solution
- Novel foo
- Alternative protein production

Waste

 Development of circular economy principles to utilise waste streams

- Conversion reduction food wast
- Into 'ferti at scale
- Valorisati side strea
- Reducing waste
- Recycling polypropy

Packaging

 Bio-based materials in long-lived consumer and construction products

Measurement

- Better diagnostics and analytical approaches
- Measuring baselines on farm
- Measurer and moni of Greenh Gas (GHO emissions environm performa

Technology

Robotics,
 Information
 and
 Communication
 Technology
 (ICT)
 developments
 on farm and in
 factory
 environment
 (Industry 4.0).