Appendix 1

In this guide

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Table 1. Summary of responses: What new changes towards net zero arebeing implemented already? (Inside your sector)

Category Academia Manufacturing Farmers & Category Academia Manufacturing Veterinary Surgeon

•	Regenerative
	farming
	techniques

- No/minimal till
- Cover crops and nitrogen fixing crops
- Mixed rotations which include
- livestockNutrient
 - management
- Hedgerow
 and
 woodland
 - management
- Productivity
 - improvements • Animal and
 - plant healthBasic
 - knowledge exchange
 - Improved genetics
 - Energy efficiency
 - Precision farming
 - Nutrition
 - \circ Reproduction

- Soil Management
 - Improving nutrients
 - Increase carbon sequestration
 - Offsetting carbon pollution through NPP
- Manure

r

- Farming methods
- management • Anaerobic digestion
- Animal husbandry
 - Improving utilisation of feed
 - Improve fertility
 - Improve genetics
- Changes to procurement practices

- Green energy • Closer connectivity between heating and cooling systems • Renewable energy • Green energy • Changing • Removal of energy grid coal and • Enhanced fossil fuels efficiency in • Renewable existing Energy sources systems • Solar panels through • Electric energy vehicles conservation, • Energy use monitoring reduction and utilisation • Crop breeding • Low energy rice and grain processing, potential for 90% energy reduction.
- Green energy
 - Through
 - anaerobic

 - digestion
 - On-site renewable
 - sources

- Alterations to
 - fertiliser practises
 - Move from inorganic to organic fertilisers
 - Abated fertiliser due to supply in the UK
 - Reduced reliance on ammonium nitrate fertiliser
- Integrated Pest Management (IPM)
- Reduced reliance of Plant Protection Product (PPP)
- Land use change
- Planting woody biomass

- Integrated pest management (IPM)
- Farming inputs
- Targeted pesticide and agrochemical use.

• Environmental Land Management (ELM)

Land use

• Trials associated with soil carbon

• Protein self sufficiency

Consumer diet change

 Use of alternatives to imported protein sources.

Waste

- Food waste reduction
- Waste reduction and management

 Zero waste to landfill
- Water recycling and reduction.

Packaging

 Food packaging material and weight changes. materials • Net impact is negative as packaging protects and preserves products through the supply chain and the product loss that it prevents has a greater Greenhouse Gas (GHG) footprint than packaging itself. • Media and Corporate Social Responsibility (CSR) driven reduction of packaging (particularly substitution of plastics packaging by alternative materials) will increase GHG impact and must "follow the science" not rhetoric. • Including recycled content into primary food

Packaging

Measurement

- Measuring of parameters
- Complete carbon footprints on-farm

- Improved manufacturing efficiency
- Reduce rejection and reduce rework and achieve zero waste
- Deforestation policies among manufacturers
- Innovation
- Increased use of high-tech production systems (glasshouses, Controlled Environment Agriculture (CEA), hydroponics)

Manufacturing

Technology

Transport

Processing methods

Shelf-life

Retail