

Appendix 4

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Table 4. Summary of responses: What do you expect the effects of changes towards net zero being rolled out already to be?

| Category | Academia | Manufacturing | Farmers & veterinary surgeon | Other |
|----------|----------|---------------|------------------------------|-------|
|----------|----------|---------------|------------------------------|-------|

Farming methods

- Less food production in the UK especially of ruminants and probably wheat and barley
- Circular agriculture principles, precision farming

- Crop production inputs
- Move away from synthetic nitrogen-based fertiliser to more organic based
- Field carbon sequestration.
- Increased environmental hygiene risk (particularly *Listeria mono*) in non-competitive growing environments and post-harvest environments where less biocide use
- Increased product contamination risks (e.g., toxic weeds) due to lack of herbicide options
- Removal of food safety steps (e.g., product washing)
- Less process steps and even on crop
- Improved productivity per hectare (vertical farming)

Food safety risk

- Possibility of nutritional and some food safety risks

- Increased risk of zoonosis / animal derived pathogens – particularly with further intensification of livestock rearing
- Conditioners, amendments – potential for new risks and bad practice

Energy

- Long term energy security and resilience

Lower carbon emissions

- Lower carbon emissions

- Lower carbon emissions

- Reduction in carbon

- Lower carbon emissions

**Process
optimisation**

- Progressive improvement in food processing cost

Investment

- Higher investment

- Increased investment

**Knowledge
sharing**

- Greater awareness

- Process optimisation
- Better use of the limited resources
- Better materials for the same shelf life
- Improvement in the efficiency of established models and supply chains.

- Sharing best practice.

Better understanding of what food system we need

Land use

- Changes in land use
- Greater interest in the countryside and less respect for land ownership without delivering public benefit

- Changes in land management and food production

Attitudinal change

- Attitude shift in consumer demands (e.g., less meat consumption)

- 'Quality not quantity' changes in consumer eating habits

- Less meat consumption

Taxation

- Changes in taxation

Increased costs

- Higher costs
- Short term Opex increases
- In electricity

- Increased price of quality food

More complexity

- More complexity

**Local
procurement**

- More local procurement

- Reducing import of animal protein from high Greenhouse Gas (GHG) emission intensity systems

Waste

- Waste collection

Packaging

- Packaging redesign

Nutrition

- Better nutrition

Data

- More data and measurable

Technology

- Robotisation and automation