Trends and drivers of end-use energy demand and the implications for managing energy in food supply chains:

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Tyndall brings together scientists, economists, engineers and social scientists who are working to develop sustainable responses to climate change. They work not just within the research community, but also with business leaders, policy advisors, the media and the public in general.

Objectives

The production of food for UK consumption generates approximately 20% of the UK's greenhouse gas emissions.

The Climate Change Act commits the UK Government to an ambitious 80% reduction in greenhouse gas emissions by 2050.

Hence, this research looked at potential interventions in order to reduce energy demand and emissions in food supply chains.

Method

Using an online survey from over 1000 respondents I have looked at different eating and cooking habits across the UK using SPSS.
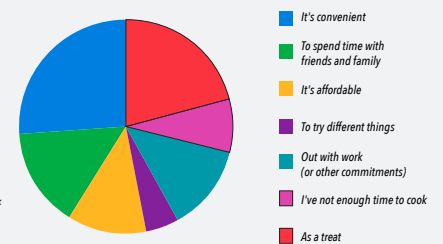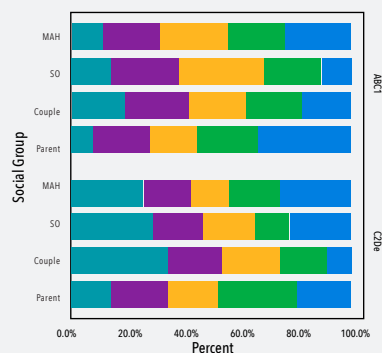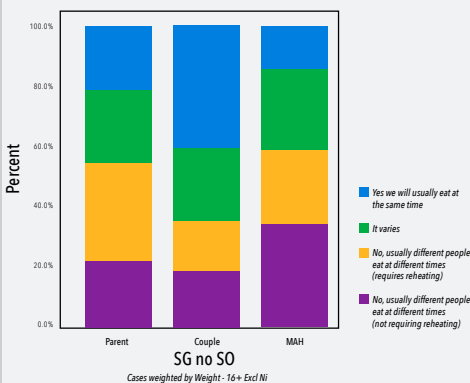
Key skills

- Data cleaning
- Recoding
- Crosstabs,
- Chi-square tests of independence
- Charts Building

Support

During my internship, my supervisor used Excel in order to carry the data analysis. I was allowed to use SPSS, in order to carry a more in-depth analysis. Given that they were using a different program, they weren't able to assist me on issues regarding the software. Nonetheless, my university mentor was always there to answer any questions that I might have, point me in the right direction and help me improve my data analysis skills.

Key Findings

Q3. Are meals usually eaten together at the same time?

Q10. In an average week, how regularly are meals bought outside the home? – Lunchtime meals

Q12. What are your main reasons for purchasing meals outside the home? Lunchtime meal.

Conclusion

Through my work I have tried to assist my supervisor and provide a comprehensive set of visual aids to use in the final paper. I created a clearer picture of the findings of the survey through detailed analysis of the dataset and the data, by manually going through the data, by recoding variables and by using different tools to verify the strength of the findings. Lastly, I have created different graphs and tables to be used as visual aids.

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Q-Step