The Nature of Sustainable Consumption and How to Achieve it

Results from the Focal Topic »From Knowledge to Action – New Paths towards Sustainable Consumption«

Translated from German by Corina Holzherr, John Williams and Trevor Pettit
## Contents

Angelika Zahrnt  
Preface 9

*Rico Defila, Antonietta Di Giulio, Ruth Kaufmann-Hayoz*  
Introduction 11

### Part 1 – The synthesis framework

*Rico Defila, Antonietta Di Giulio, Ruth Kaufmann-Hayoz, Markus Winkelmann*

1. **A landscape of research around sustainability and consumption** 23

   *Antonietta Di Giulio, Bettina Brohmann, Jens Clausen, Rico Defila, Doris Fuchs, Ruth Kaufmann-Hayoz, Andreas Koch*

2. **Needs and consumption – a conceptual system and its meaning in the context of sustainability** 45

   *Daniel Fischer, Gerd Michelsen, Birgit Blättel-Mink, Antonietta Di Giulio*

3. **Sustainable consumption: how to evaluate sustainability in consumption acts** 67


4. **Theoretical perspectives on consumer behaviour – attempt at establishing an order to the theories** 81

   *Ruth Kaufmann-Hayoz, Bettina Brohmann, Rico Defila, Antonietta Di Giulio, Elisa Dunkelberg, Lorenz Erdmann, Doris Fuchs, Sebastian Götz, Andreas Homburg, Ellen Matthies, Malte Nachreiner, Kerstin Tews, Julika Weiß*

5. **Societal steering of consumption towards sustainability** 113

   *Melanie Jaeger-Erben, Martina Schäfer, Dirk Dalichau, Christian Dehmel, Konrad Götz, Daniel Fischer, Andreas Homburg, Marlen Schulz, Stefan Zundel*

6. **Using ‘mixed methods’ in sustainable consumption research: approaches, challenges and added value** 143
Part 2 – Findings from the project groups

A  Status of sustainability in investment decisions

Julika Weiß, Immanuel Stieß, Stefan Zundel

1  Motives for and barriers to energy-efficient refurbishment of residential dwellings

Joachim Schleich, Bradford F. Mills

2  Determinants and distributional implications in the purchase of energy-efficient household appliances

B  Changing everyday consumption patterns

Martina Schäfer, Melanie Jaeger-Erben

3  Life events as windows of opportunity for changing towards sustainable consumption patterns? The change in everyday routines in life-course transitions

Ellen Matthies, Dirk Thomas

4  Sustainability-related routines in the workplace – prerequisites for successful change

C  Social embedding of consumer behaviour

Matthias Barth, Daniel Fischer, Gerd Michelsen, Horst Rode

5  Schools and their ‘culture of consumption’: a context for consumer learning

Konrad Götz, Wolfgang Glatzer, Sebastian Götz

6  Household production and electricity consumption – possibilities for energy savings in private households
Melanie Jaeger-Erben, Ursula Offenberger, Julia Nentwich, Martina Schäfer, Ines Weller

7 Gender in the focal topic "From Knowledge to Action – New Paths towards Sustainable Consumption": findings and perspectives 263

Sophia Alcántara, Sandra Wassermann, Marlen Schulz

8 Is "eco-stress" associated with sustainable heat consumption? 277

Ursula Offenberger, Julia Nentwich

9 Socio-cultural meanings around heat energy consumption in private households 291

D Consumers in new roles

Cordula Kropp, Gerald Beck

10 How open is open innovation? User roles and barriers to implementation 309

Birgit Blättel-Mink, Jens Clausen, Dirk Dalichau

11 Changing consumer roles and opportunities for sustainable consumption in online second-hand trading: the case of eBay 323

Ulf Schrader, Frank-Martin Belz

12 Involving users in sustainability innovations 335

E Design and efficacy of societal steering

Andreas Koch, Daniel Zech

13 Impact analysis of heat consumption – user behaviour and the consumption of heat energy 353

Georg Sunderer, Konrad Götz, Sebastian Götz

14 The evaluation of feedback instruments in the context of electricity consumption 367
Andreas Klesse, Joachim Müller, Ralf-Dieter Person

15 Achieving and measuring energy savings through behavioural changes: the challenge of measurability in the actual operation of university buildings 383

Bettina Brohmann, Veit Bürger, Christian Dehmel, Doris Fuchs, Ulrich Hamenstädt, Dörthe Krömker, Volker Schneider, Kerstin Tews

16 Sustainable electricity consumption in German households – framework conditions for political interventions 399

Bettina Brohmann, Christian Dehmel, Doris Fuchs, Wilma Mert, Anna Schreuer, Kerstin Tews

17 Bonus schemes and progressive electricity tariffs as instruments to promote sustainable electricity consumption in private households 411

Appendix

Profiles of the project groups 423
Authors 447