

Reference list

Sustainable Products & Material Flows

As per November 2023



**Making
transformations
equitable**

Oeko-Institut e.V.

Oeko-Institut is a leading European research and consultancy institute working for a sustainable future. Founded in 1977, the institute develops principles and strategies for realising the vision of sustainable development globally, nationally and locally.

Based on value-oriented research, the institute provides consultancy for decision-makers in politics, industry and civil society, showing them ways of tackling the environmental challenges we face in an age of rapid social change and globalisation. The experts draw upon a broad array of scientific and research methods and also employ a transdisciplinary approach in their work.

Oeko-Institut employs almost 200 staff, including 140 researchers at three locations in Germany – Freiburg, Darmstadt and Berlin.

Imprint:

© Oeko-Institut e.V

info@oeko.de

www.oeko.de

As per November 2023

Editor: Carola Metz

Head office Freiburg

P.O. Box 17 71

79017 Freiburg, Germany

Street address

Merzhauser Str. 173

79100 Freiburg, Germany

Tel. +49 761 45295-0

Berlin Office

Borkumstraße 2

13189 Berlin, Germany

Tel. +49 30 405085-0

Darmstadt Office

Rheinstr. 95

64295 Darmstadt, Germany

Tel. +49 6151 8191-0

Sustainable Products & Material Flows Division

The thematic priorities of the Sustainable Products & Material Flows Division are

- Chemicals, materials and technologies,
- Sustainable food systems and lifestyles, and
- Circular economy and global value chains.

Our research and consultancy projects are geared to practical implementation, seeking to make the vision of sustainable development operational, both on national and international levels, for specific products and companies, sectors and 'areas of need', consumer practices and lifestyles, as well as for policy instruments and strategies. We provide scientific support to the development and introduction of new technologies, help companies develop innovative products, assess products and services, analyse the prerequisites for a sustainable transformation of production and consumption patterns and provide practical tools to support decisions for both consumers and procurers.

In the various policy areas, we provide advice on the practical implementation of European framework directives (such as REACH, RoHS, WEEE, ELV, Ecodesign and Energy label), on the refinement and alignment of (sustainability) labels and on the further development and implementation of sustainable public procurement practices. In international cooperation, problem solutions are developed and tested in practice under different socio-economic conditions in close collaboration with local partners. This involves the introduction of ecological standards and product labels as well as adapted solutions for issues relating to raw materials and waste management.

When analysing optimisation potential, the entire product life cycle is taken into account – from raw material extraction, production and use to disposal. In addition to ecological aspects, the experts also examine interactions with social issues. A disciplinary and inter- / transdisciplinary set of methods forms the basis for the investigations. These include, for example, life cycle assessments (LCA) and greenhouse gas inventories for products and companies (product or corporate carbon footprint (PCF, CCF); product environmental footprints (PEF)), eco-efficiency and material flow analyses, assessments of the substitution potential of hazardous substances and qualitative analyses to evaluate environmental impacts that are difficult to quantify, such as ecosystem services or the loss of biodiversity. Our political and social science methodological expertise includes cost-benefit analyses, impact assessments, empirical research and policy analyses. Product Sustainability Assessment (PROSA) – a methodology developed by the Institute – provides strategic guidance for numerous projects.

Our team consists of more than twenty committed researchers representing a broad range of disciplines. Our clients include various Directorates-General of the European Commission, national ministries focussing on the environment (BMUV), climate protection (BMWK) and research (BMBF), the German Federal Environment Agency (UBA), private-sector companies and industry federations, environmental and consumer NGOs and foundations. On the international level, our main commissioning parties are the German Society for International Cooperation (GIZ), the KfW Development Bank, the World Resources Forum (WRF), the Federal Ministry of the Environment, UNEP, and the United Nations University (UNU).

Contents

Oeko-Institut e.V.	2
Sustainable Products & Material Flows Division	3
1. Transformation & green economy	5
Publications relating to Transformation & green economy:	9
2. Sustainable consumption	10
2.1. Cross-cutting issues	11
2.2. Ecodesign / Energy Labelling	15
2.3. Eco Labelling	18
2.4. Green procurement	24
2.5. Consumer information	27
2.6. Sustainable consumption in specific sectors	30
2.6.1. Textiles	30
2.6.2. Household appliances	32
Publications relating to sustainable consumption	35
3. Environmental impacts of digitalisation	38
4. Sustainable Food Systems and Bio-Based Raw Materials	45
Publications relating Sustainable Food Systems and Bio-Based Raw Materials:	50
5. Circular economy and global value chains	51
Publications relating to Circular economy and global value chains	60
6. Sustainable chemistry	62
6.1. Cross-cutting issues	62
6.2. Chemicals management and REACH	65
6.3. Hazardous substances assessment and substitution	68
Publications relating to sustainable chemistry	76
7. Technology assessment	77
7.1. Cross-cutting issues	77
7.2. Nanotechnology	79
7.3. Technology development processes	80
Publications relating to technology assessment	80
8. Climate and sustainability responsibility of companies and organisations	81
9. Methodology	87
9.1. Methodology development and standardization	87
9.2. Methodology application	88
9.3. Critical reviews	89

Sustainable Products & Material Flows



1. Transformation & green economy

Social nature - practical perspectives and integrated policy modules *(in progress)*

von Vittorelli, L.; Fischer, C.; Gascon Castellero, L.; Hanke, G.; Heyen, D.; Pietschmann, M.; Rüdener, I.; Teufel, J.; Wolff, F.

Commissioned by: Federal Agency for Nature Conservation (BfN)

NKI: CULTURE4CLIMATE - Initiative for the implementation of the global climate and sustainability goals in the field of culture *(in progress)*

See also: <https://culture4climate.de/>

Sutter, J.; Antony, F.; Eckert, D.; Heutmanek, U.; López, V.; Neumaier, J.; Rüdener, I.; Stahl, H.; Teufel, J.; Wagner, T. in collaboration with Mohr, H.; Pfaff, S.; Burghardt, C.; Weiß, R.; Kahle, S.; in cooperation with Kulturpolitische Gesellschaft e.V.; Netzwerk Nachhaltigkeit in Kunst und Kultur e.V. *Funded by: Federal Ministry for Economic Affairs and Climate Action (BMWK)*

Social aspects of environmental policy - Sub-project 1: Analysis and environmental policy implications *(in progress)*

Hanke, G.; Braungardt, S.; Cludius, J.; Fischer, C.; Förster, H.; Ganal, I.; Heyen, D.; Hünecke, K.; Keimeyer, F.; Kenkmann, T.; Köhler, B.; Liste, V.; Quack, D.; Schreiber, J.; Schumacher, K.; Schwemmler, N.; Weber, M.; Wolff, F. in collaboration with Korte J.; Voget-Kleschin, L.; Stieß, I.; Deffner, J.; Fiedler, S.; in cooperation with Forum Ökologisch-Soziale Marktwirtschaft e.V. (FÖS); Institute for Social-Ecological Research Ltd. (ISOE); Prof. Dr. Stefan Klinski; Tübingen University; ZebraLog GmbH & Co. KG

Commissioned by: German Environment Agency (UBA)

Climate neutrality and GHG neutrality: An analysis of both scientific concepts together with an examination of their public use and understanding *(in progress)*

Gores, S.; Gensch, C.; Graichen, J.; Liu, R.; Schneider, L.; Siemons, A.; in cooperation with B.A.U.M. Consult GmbH

Commissioned by: German Environment Agency (UBA)

Scientific support to climate policy and climate action programme *(in progress)*

Repenning, J.; Bei der Wieden, M.; Braungardt, S.; Bürger, V.; Cludius, J.; Emele, L.; Gascon Castillero, L.; Gores, S.; Hennenberg, K.; Hermann, H.; Hünecke, K.; Jörß, W.; Keimeyer, F.; Köhler, A.; Ludig, S.; Matthes, F.; Mendelevitch, R.; Moosmann, L.; Prakash, S.; Scheffler, M.; Schumacher, K.; Timpe, C.; von Vittorelli, L.; Wiegmann, K.; Wissner, N.; in cooperation with Fraunhofer Institute for Systems and Innovation Research (Fraunhofer ISI); Institute for Energy and Environmental Research (ifeu); Institute for Resource Efficiency and Energy Strategies GmbH (IREES); Institute of Economic Structures Research (GWS); Prof. Dr. Stefan Klinski; Prognos AG
Commissioned by: Federal Ministry for Economic Affairs and Climate Action (BMWK)

Analysis of transformation pathways for global sustainable development *(in progress)*

Wolff, F.; Fischer, C.; Gascon Castillero, L.; Gensch, C.; Hanke, G.; Kenkmann, T.; Löw, C.; McLennan, A.; Ritter, D.; Schreiber, J.; Weber, M.
Commissioned by: German Environment Agency (UBA)

Empty Nest - New Start? Ways to housing efficiency in old age *(2023)*

Fischer, C.; Kenkmann, T.
Funded by: Stiftung Zukunftserbe

Model Germany Circular Economy - Policy Blueprint *(2023)*

Prakash, S.; Antony, F.; Betz, J.; Dehoust, G.; Gascon Castillero, L.; Gensch, C.; Köhler, A.; Löw, C.; Manhart, A.; Teufel, J. in collaboration with Jakob, K.; Fiala, V.; Pfaff, M.; Herbst, A.; Loibl, A.; in cooperation with Fraunhofer Institute for Systems and Innovation Research (Fraunhofer ISI); Freie Universität Berlin
Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)

Civic engagement for sustainable public welfare (ENGAGE) *(2022)*

See also: <https://www.uni-muenster.de/Nachhaltigkeit/engage/index.html>

Fischer, C.; Hanke, G.; Scherf, C.; Wolff, F. in collaboration with Fuchs, D.; Siepker, L.; Stiess, I.; Birzle-Harder, B.; Sattlegger, L.; Kern, F.; Gall, A.; Hofmann, D.; Lehmann, C.; Peuckert, J.; Sharp, H.; in cooperation with Institute for Ecological Economy Research (IÖW); Institute for Social-Ecological Research Ltd. (ISOE); The Center of Interdisciplinary Sustainability Research (ZIN), University of Münster
Funded by: German Federal Ministry of Education and Research (BMBF)

Representative survey on environmental awareness and behaviour including social science analyses *(2021)*

Fischer, C. in collaboration with Follmer, R.; Belz, J.; Stieß, I.; Birzle-Harder, B.; Sunderer, G.; in cooperation with Institute for Applied Social Sciences (infas); Institute for Social-Ecological Research Ltd. (ISOE)
Commissioned by: German Environment Agency (UBA)

Environmental policy transfer: Identification and systematisation of its success factors *(2022)*

Wolff, F.; Bauknecht, D.; Heyen, D.; Prakash, S. in collaboration with Jacob, K.; Teebken, J.; in cooperation with Environmental Policy Research Centre - Freie Universität Berlin (FFU)
Commissioned by: German Environment Agency (UBA)

Shaping ecological change – Implementing and updating the Integrated Environmental Programme 2030 (2021)

Wolff, F.; Gensch, C.; Griebhammer, R.; Heyen, D.; Kampffmeyer, N.; Quack, D.; Teufel, J. in collaboration with Richter, S.; Jetzke, T.; Lucht, W.; Keppner, B.; Weiss, D.; Jacob, K.; in cooperation with adelphi consult GmbH; Environmental Policy Research Centre - Freie Universität Berlin (FFU); euphorum; Institute for Innovation and Technology; Potsdam Institute for Climate Impact Research (PIK)

Commissioned by: German Environment Agency (UBA)

Living Spaces: Instruments for a needs-based use of living space in municipalities (2021)

Fischer, C.; Kenkmann, T. in collaboration with Burkhardt, T.; Wesselmann, S.; Machado, C.; Stieß, I.; Deffner, J.; Deppisch, L.; Reindl, K.; Savic, R.; Georg Sunderer; Brischke, L.-A.; Paar, A.; in cooperation with Amt für Klimaschutz und Nachhaltigkeit, Kreis Steinfurt; energieland2050 e. V.; Institute for Energy and Environmental Research (ifeu); Institute for Social-Ecological Research Ltd. (ISOE)

Funded by: German Federal Ministry of Education and Research (BMBF)

Strategies for ecologically-driven structural change towards a Green Economy (2021)

Heyen, D.; Gensch, C.; Gsell, M.; Hacker, F.; Hünecke, K.; Minnich, L.; Scherf, C.; in cooperation with Fraunhofer Institute for Systems and Innovation Research (Fraunhofer ISI)

Commissioned by: German Environment Agency (UBA)

Viable, sustainable economic stimuli for coping with the economic consequences of the corona crisis (especially for SMEs) (2020)

Schumacher, K.; Blanck, R.; Braungardt, S.; Bürger, V.; Cames, M.; Fallasch, F.; Förster, H.; Gensch, C.; Gores, S.; Gröger, J.; Hacker, F.; Hermann, H.; Herold, A.; Hünecke, K.; Kampffmeyer, N.; Kasten, P.; Mendelevitich, R.; Mottschall, M.; Noka, V.; Prieß, R.; Quack, D.; Schemmel, J.; Siemons, A.; Urrutia, C.; Wolff, F.; Zerwes, A.; Zimmer, W.

Funded by: German Federal Environmental Foundation (DBU)

Transformative strategies for an integrated neighbourhood development: Action concepts and evaluation options for high-influx cities (so-called ‚Schwarmstädte‘) (TRASIQ) (2020)

See also: www.trasiq.de

Fischer, C.; Bleher, D.; Blepp, M.; Braungardt, S.; Brohmann, B.; Bunke, D.; Bürger, V.; Hesse, T.; Jacobs, J.; Kasten, P.; Kenkmann, T.; Quack, D.; Schütte, S.; Weber, M.; Wiepking, J.; Winger, C. in collaboration with Kolmer, M.; Tilsner, R.; Pätzold, R.; Froelich von Bodelschwingh, F.; Eichhorn, S.; Ewen, C.; Jünger, A.; in cooperation with City of Darmstadt; German Institute of Urban Affairs (Difu); Research Institute for Regional and Urban Development gGmbH (ILS); Team Ewen

Funded by: German Federal Ministry of Education and Research (BMBF)

Publication of the 6th Global Environmental Outlook: Analysis of implications for Germany (2019)

Wolff, F.; Küppers, P.; Prakash, S. in collaboration with Jacob, K.; in cooperation with Environmental Policy Research Centre - Freie Universität Berlin (FFU); Freie Universität Berlin

Commissioned by: German Environment Agency (UBA)

Instrumentation options for reducing energy consumption through behavioural changes (2019)

Fischer, C.; Cludius, J.; Förster, H.; Keimeyer, F.; Kenkmann, T.; Scherf, C.; Schumacher, K.; Wolff, F.; Zell-Ziegler, C. in collaboration with Steiner, V.; Brischke, L.; Leuser, L.; in cooperation with Freie Universität Berlin; Institute for Energy and Environmental Research (ifeu)

Commissioned by: German Environment Agency (UBA)

Environmental policy in the 21st century – approaches to novel challenges (2019)

Wolff, F.; Brohmann, B.; Fischer, C.; Griebshammer, R.; Gsell, M.; Heyen, D. in collaboration with Potthast, T.; Meisch, S.; Pregernig, M.; Espinosa, C.; Büttner, H.; Fleischer, C.; Richerzhagen, C.; Bauer, S.; Brandi, C.; Jacob, K.; Graaf, L.; in cooperation with Albert-Ludwigs-Universität Freiburg; Environmental Policy Research Centre - Freie Universität Berlin (FFU); Freie Universität Berlin; German Development Institute (DIE); Institut für Organisationskommunikation GmbH (IFOK); Tübingen University

Commissioned by: German Environment Agency (UBA)

Digitisation and sustainability: Political guidance between opportunities, false promises and risks (2019)

Gensch, C.; Gailhofer, P.; Gsell, M.; Heinemann, C.; Kampffmeyer, N.; Ustohalova, V.

Funded by: Stiftung Zukunftserbe

Trafo 3.0 - Governance model for socio-ecological transformation processes in practice: development and testing in three areas of application (2018)

See also: www.trafo-3-0.de

Gensch, C.; Blanck, R.; Brohmann, B.; Fischer, C.; Griebshammer, R.; Heyen, D.; Hilbert, I.; Jacobs, J.; Liu, R.; Prakash, S.; Quack, D.; Stratmann, B.; Teufel, J.; Wolff, F.; Zimmer, W.

Funded by: German Federal Ministry of Education and Research (BMBF)

Research coordination of the funding initiative ‚An environmentally and socially compatible transformation of the German energy system‘ conducted by the Federal Ministry of Education and Research (BMBF) (2018)

Griebshammer, R.; Bauknecht, D.; Bürger, V.; Fischer, C.; Gensch, C.; Heinemann, C.; Hesse, T.; Heyen, D.; Hilbert, I.; Quack, D.; Sachs, A.; Schoßig, M. in collaboration with Bergmann, M.; Schuld-Baumgart, N.; Keil, F.; in cooperation with Institute for Social-Ecological Research Ltd. (ISOE); KiB Research

Funded by: German Federal Ministry of Education and Research (BMBF)

Prospects of citizen participation in the energy transition process under consideration of distributional aspects (2018)

Gensch, C.; Bauknecht, D.; Braungardt, S.; Bürger, V.; Cludius, J.; Fischer, C.; Flachsbarth, F.; Förster, H.; Graulich, K.; Greiner, B.; Heinemann, C.; Hesse, T.; Hilbert, I.; Hünecke, K.; Kenkmann, T.; Moch, K.; Schumacher, K.; Timpe, C. in collaboration with Gill, B.; Führ, M.; Libbe, J., Riechel, R.; Flieger, B.; Bizer, K.; Menges, R.; Stieß, I.; Aretz, A.; Weiß, J.; Heindl, P.; in cooperation with Centre for European Economic Research; Clausthal University of Technology; Europa-Universität Flensburg; Fraunhofer Institute for Solar Energy Systems (Fraunhofer ISE); Georg-August-Universität Göttingen; Helmut Schmidt Universität Hamburg; Hochschule Darmstadt, University of Applied Sciences; Hochschule Darmstadt, University of Applied Sciences, Prof. Martin Führ; Hochschule für angewandte Wissenschaften Augsburg; Institute for Ecological Economy Research (IÖW); Institute for Futures Studies and Technology Assessment (IZT); Institute for Social-Ecological Research Ltd. (ISOE); Kulturwissenschaftliche Institut in Essen (KWI); Ludwig-Maximilians-Universität München; University of Oldenburg; Wuppertal Institut für Klima, Umwelt, Energie gGmbH

Funded by: German Federal Ministry of Education and Research (BMBF)

Knowledge Dialogue Northern Black Forest: The real-world laboratory (2018)

Prieß, R.; Bleher, D.; Weishäupl, J. in collaboration with Rhodius, R.; in cooperation with Albert-Ludwigs-Universität Freiburg

Commissioned by: Ministerium für Wissenschaft, Forschung und Kunst Baden Württemberg

Transition to a Green Economy: Necessary structural changes for and enablers of a viable implementation in Germany (2017)

Wolff, F.; Bauknecht, D.; Blanck, R.; Bunke, D.; Förster, H.; Gensch, C.; Grießhammer, R.; Gsell, M.; Heyen, D.; Kampffmeyer, N.; Keimeyer, F.; Loreck, C.; Schumacher, K.; in cooperation with Projektträger Jülich
Commissioned by: German Environment Agency (UBA)

Criteria for the success of stakeholder cooperations pertaining to transformations and system innovations (2017)

Brohmann, B.; Grießhammer, R.; Hilbert, I.
Commissioned by: Stiftung Zukunftserbe

Contribution to the Green Economy by sustainability of companies in the chemical industry: Selection of substances or processes on the basis of the criteria for a sustainable chemistry developed by the German Federal Environment Agency (UBA) (2016)

See also: www.umweltbundesamt.de/publikationen/leitfaden-nachhaltige-chemikalien
 Bunke, D. in collaboration with Jepsen, D.; Reihlen, A.; in cooperation with Ökopol – Institute for Environmental Strategies GmbH
Commissioned by: German Environment Agency (UBA)

Contributions to the sustainability strategy: reducing the use of resources in the chemicals industry by applying instruments of sustainable chemistry (2016)

Bunke, D.; Blepp, M. in collaboration with Joas, R.; Joas, A.; Abraham, V.; in cooperation with Consultancy for integrated solutions (BiPRO)
Commissioned by: German Environment Agency (UBA)

Transformation strategies and Models of Change (MoC) to encourage a sustainable social change (2015)

Brohmann, B.; Grießhammer, R. in collaboration with Leggewie, C.; David, M.; in cooperation with Kulturwissenschaftliche Institut in Essen (KWI); Zeppelin University gGmbH
Commissioned by: German Environment Agency (UBA)

Collaborative consumption – New approaches for a collaborative economy (2015)

Dehoust, G.; Brommer, E.; Cheung, E.; Förster, H.; Gsell, M.; Hülsmann, F.; Kasten, P.; Möck, A.; Monllor Putzke, H.; Quack, D. in collaboration with Peter, M.; Schwegler, R.; Bertschmann, D.; Zandonella, R.; in cooperation with INFRAS AG
Commissioned by: German Environment Agency (UBA)

Sufficiency in everyday life – concept, necessity, potentials, and political steering options (2013)

Wolff, F.; Barth, R.; Brohmann, B.; Brunn, C.; Fischer, C.; Heyen, D.
Commissioned by: Stiftung Zukunftserbe

Publications relating to Transformation & green economy:

Fischer, C. et al. (2020): 100 social sciences and humanities priority research questions for energy efficiency in Horizon Europe; Energy shifts, Cambridge. https://energy-shifts.eu/wp-content/uploads/2020/12/D2.3_WG3_Energy-efficiency.pdf

Wolff, F., Zoritz, K.; Möller, M. (2020): Wo ein Wille ist, ist auch ein Weg; In: Bioökonomie - Weltformel oder Brandbeschleuniger? 1. Auflage, S. 95-102, oekom Verlag, München.

Fischer, C.; Stieß, I. (2020): Alternative Konsumformen: Soziale Teilhabe jenseits von Markt und Arbeit; Vortrag: Tätigsein in der Postwachstumsgesellschaft; 2.-4.10.2020, Tutzing.

Fischer C. (2020): Flächensparend wohnen im Alter. Erfahrungen aus dem Projekt "LebensRäume"; Vortrag: Weiterbildung des Planungsdachverbandes Region Zürich und Umgebung: „Zukunft Einfamilienaus“; 17.09.2020, Zürich:

Quack, D. unter Mitarbeit von Gottwald, F-T. (2020): In Maßen, nicht in Massen! Für eine Ernährung mit weniger, dafür umwelt- und tiergerecht(er) produziertem Fleisch; In: Kritischer Agrarbericht 2020, S. 349-353, AgrarBündnis, Hamm.

Fischer, C.; Stieß, I. (2019): Wider den „verdeckten Leerstand“. Bedürfnisgerechte und effiziente Wohnraumnutzung in Einfamilienhäusern; In: PlanerIn, Vol 6, pp. 21-24, Berlin. <https://srl.de/publikationen/planer-in/%C3%A4ltere-ausgaben/product/view/2/155.html>

Stieß, I.; Umbach-Daniel, A.; Fischer, C. (2019): Smart small living? Social innovations for saving energy in senior citizens' households by reducing living space; In: Journal of Energy Policy, Vol 133. <https://www.sciencedirect.com/journal/energy-policy>

Fischer, C.; Stieß, I. (2019): Living spaces: Saving energy by encouraging alternative housing options for senior homeowners; In: eceee Summer Study 2019. Proceedings: Summer Study on energy efficiency: Is efficient sufficient?, 3-8 June 2019, Belambra Presqu'île de Giens, France. <https://www.eceee.org/library/conference-proceedings/eceee-Summer-Studies/2019/7-make-buildings-policies-great-again/living-spaces-saving-energy-by-encouraging-alternative-housing-options-for-senior-homeowners/>

Fischer, C.; Stieß, I. (2019): Alternative Konsumformen: Soziale Teilhabe jenseits von Markt und Arbeit; In: Tätigsein in der Postwachstumsgesellschaft, 1. Auflage, S. 77-94, Metropolis Verlag, Marburg.

Fischer, C.; Stieß, I. (2019): Wohnen in der Nachfamilienphase: bedürfnisgerecht und flächensparend; In: Immobilien-Almanach 02: Ausgabe 2019 / 2020, S. 57-77, Grabener Verlag, Kiel:

Fischer, C. (2019): Grenzen ermöglichen: Suffizienzpolitik für Nachhaltigkeit; In Damit gutes Leben mit der Natur einfacher wird. Suffizienzpolitik für Naturbewahrung, S. 63-82, Metropolis Verlag, Marburg.

Gensch, C.-O.; Prakash, S. & Hilbert, I. (2017). Is Digitalisation a Driver for Sustainability?: In Osburg, T.; Lohrmann, C. (eds.): Sustainability in a Digital World - New Opportunities Through New Technologies: Springer.

Zahrnt, A.; Fischer, C. (2015): Forschungspolitik und Suffizienz: Wachstum in der Nische. In: *politische ökologie* (140), S. 79–84. <http://www.oekom.de/zeitschriften/politische-oekologie/archiv/archiv/heft/673.html>.

Fischer, C.; Griebhammer, R.; Barth, R.; Brohmann, B.; Brunn, C.; Heyen, D. et al. (2013): Suffizienz: Begriff, Begründung und Potenziale. In: *Öko-Institut Working Paper* (2). www.oeko.de/oekodoc/1836/2013-505-de.pdf (DE); www.oeko.de/oekodoc/1879/2013-007-en.pdf (EN).

Heyen, D.; Fischer, C.; Barth, R.; Brunn, C.; Griebhammer, R.; Keimeyer, F.; Wolff, F. (2013): Suffizienz: Notwendigkeit und Optionen politischer Gestaltung. In: *Öko-Institut Working Paper* (3). www.oeko.de/oekodoc/1837/2013-506-de.pdf (DE); www.oeko.de/oekodoc/1880/2013-008-en.pdf (EN).

Rüdenauer, I.; Seebach, D. (2017): Ökologische Bewertung der Beschaffung von ökologischen Gasprodukten (Biomethan, Kompensationsgas, synthetisches Gas) durch öffentliche Auftraggeber. Diskussionspapier. <https://www.oeko.de/publikationen/p-details/oekologische-bewertung-der-beschaffung-von-oekologischen-gasprodukten-biomethan-kompensationsgas-sy>

2. Sustainable consumption

2.1. Cross-cutting issues

Scientific support for the Competence Centre for Sustainable Consumption and the National Network for Sustainable Consumption *(in progress)*

See also: <https://nachhaltigerkonsum.info/>

Quack, D.; Heyen, D.; López, V.

Commissioned by: German Environment Agency (UBA)

Triple climate protection through electricity savings and reinvestment in renewable energies

(in progress)

Graulich, K.; Seidl, R. in collaboration with Albert-Seifried, S.; Seifried, D.; Gaudian, T.; Walzer, M.; Janssen, S.; in cooperation with Büro Ö-quadrat; Elektrizitätswerke Schönau (EWS); Prof. Dr. Rainer Grießhammer

Commissioned by: German Federal Environmental Foundation (DBU)

Innovative climate protection in private households: Offsetting the additional electricity demand of e-mobility through the expansion of renewable energies and energy efficiency (E-Mob EE) *(in progress)*

See also: www.e-mob-ee.de

Graulich, K. in collaboration with Albert-Seifried, S.; Seifried, D.; in cooperation with Büro Ö-quadrat; Energieagentur Kreis Ludwigsburg LEA e.V.; Energieagentur Landkreis Göppingen gGmbH; Energieagentur Regio Freiburg

Funded by: Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU)

Together for environmentally sound consumption - information, communication and international cooperation *(2022)*

Teufel, J.; Jacobs, J.; López, V.; Prakash, S. in collaboration with Polania Giese, J. C.; in cooperation with adelphi research gGmbH

Commissioned by: Federal Agency for Nature Conservation (BfN)

Strategic development and scientific support of the activities and services of the Competence Centre for Sustainable Consumption *(2022)*

Fischer, C.; Quack, D. in collaboration with Wagner, M.; Muster, V.; Thorun, C.; in cooperation with co2online gGmbH; ConPolicy - Institute for Consumer Policy

Commissioned by: German Environment Agency (UBA)

Market observation of sustainable consumption: market analysis and interventions to promote green products, with respect to the sustainable consumption goals of the German Sustainability Strategy *(2022)*

Fischer, C.; Hanke, G.; Moch, K.; Rüdener, I.; Teufel, J. in collaboration with Steinemann, M.; Iten, R.; Spescha, G.; in cooperation with INFRAS AG

Commissioned by: German Environment Agency (UBA)

Rethinking Sustainable Consumption: Evaluation and further development of measures and instruments *(2021)*

Fischer, C.; Antony, F.; Blanck, R.; Braungardt, S.; Brunn, C.; Bürger, V.; Grießhammer, R.; Jakob, M.; Kampffmeyer, N.; Kenkmann, T.; Köhler, B.; Kreye, K.; Quack, D.; Schumacher, K.; Seidl, R.; Stuber-Rousselle, K.; Wolff, F. in collaboration with Thorun, C.; Schrader, U.; Muster, V.; in cooperation with ConPolicy GmbH; Prof. Dr. Lucia Reisch; Prof. Dr. Rainer Grießhammer; Technische Universität Berlin

Commissioned by: German Environment Agency (UBA)

Citizens' participation and social inclusion as a building block for the implementation of the National Programme for Sustainable Consumption (2021)

See also: <https://www.bmuv.de/themen/bildung-beteiligung/beteiligung/buergerbeteiligung-und-soziale-teilhabe-fuer-nachhaltigen-konsum>

Fischer, C.; Hanke, G.; Seidl, R. in collaboration with Franke, K.; Léger, V.; Ruesch, M.; Wolff, K.; Stieß, I.; Birzle-Harder, B.; in cooperation with Institute for Social-Ecological Research Ltd. (ISOE); ZebraLog GmbH & Co. KG

Commissioned by: German Environment Agency (UBA)

Ecological financial reform: product-related incentives as drivers for environmentally friendly production and consumption (2021)

Siemons, A.; Förster, H.; Hünecke, K.; Keimeyer, F.; Liste, V.; Manhart, A.; Prakash, S.; Prieß, R.; Quack, D.; Schumacher, K.; Winger, C.; in cooperation with Environmental Policy Research Centre - Freie Universität Berlin (FFU); Forum Ökologisch-Soziale Marktwirtschaft e.V. (FÖS)

Commissioned by: German Environment Agency (UBA)

Economic and ecological effects of extending the useful life of electrical and electronic devices. Using the example of smartphones, notebooks, washing machines, televisions and e-bikes (pedelecs) (2020)

Rüdenauer, I.; Prakash, S.

Commissioned by: Federation of German Consumer Organisations (vzbv)

Conception, design and implementation of a climate protection campaign (2020)

Quack, D. in collaboration with Zhu, J.; Jahnke, K.; in cooperation with co2online gGmbH; Oeko-Institut e.V.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Preparing and supporting the German input to the Global Sustainable Development Report (GSDR) (2020)

Wolff, F.; Bunke, D.; Graulich, K.; Kampffmeyer, N.; Loreck, C.; Prakash, S.; Scherf, C. in collaboration with Weiß, D.; Polania Giese, J. C.; in cooperation with adelphi research gGmbH

Commissioned by: German Environment Agency (UBA)

Consumer advice as a component of a successful resource policy (2020)

Antony, F.; Fischer, C.; Kenkmann, T.; Quack, D.; Teufel, J.; Weber, M. in collaboration with Müssig, S.; Horst, T.; Ried, M.; in cooperation with Bundesverband für Umweltberatung (bfub) e.V.

Commissioned by: German Environment Agency (UBA)

Consumers4climate: How to position consumer organisations as relevant players in the debate against climate change? (2019)

Quack, D.; Heyen, D.

Commissioned by: The European Consumer Organisation (BEUC)

Scientific support for the national programme for sustainable consumption – Subproject 3: Environmental costs of consumer goods as a starting point for the improvement of market-related and non-market-related consumer information („2nd price tag“) (2020)

Teufel, J.; Brohmann, B.; Gensch, C.; Gsell, M.; Hünecke, K.; Rüdenauer, I. in collaboration with Jahnke, K.; Metzger, S.; Beyerle, M.; Weschenfelder, N.; Rüegge, B.; Sutter, D.; in cooperation with co2online gGmbH; INFRAS AG; minds & makers

Commissioned by: German Environment Agency (UBA)

Evaluation, monitoring and adjustment as well as further development of the German National Climate Initiative (NKI) (2019)

Repenning, J.; Fischer, C.; Graulich, K.; Greiner, B.; Gröger, J.; Hennenberg, K.; Hünecke, K.; Jörß, W.; Keimeyer, F.; Kenkmann, T.; Ludig, S.; Matthes, F.; Mottschall, M.; Nissen, C.; Noka, V.; Quack, D.; Rausch, L.; Schüler, D.; Schumacher, K.; Winger, C.; Zell-Ziegler, C.; in cooperation with Dr. Hans-Joachim Ziesing; Ecologic Institut gGmbH; Environmental Policy Research Centre - Freie Universität Berlin (FFU); Hochschule Karlsruhe – Technik und Wirtschaft; Institute for Energy and Environmental Research (ifeu); Münch, Sascha; Prof. Dr. Stefan Klinski; Prognos AG
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Scientific study on the development in energy consumption and measures to promote product-related energy efficiency (2018)

Fischer, C.; Brommer, E.; Bürger, V.; Graulich, K.; Gröger, J.; Hermann, A.; Hesse, T.; Keimeyer, F.; Kenkmann, T.; Prakash, S.; Quack, D.; Schleicher, T.; Schüler, D.; Stahl, H.; Stratmann, B.; Wolff, F. in collaboration with Weiß, U.; Brischke, L.-A.; Paar, A.; Pehnt, M.; in cooperation with Institute for Energy and Environmental Research (ifeu)
Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)

Strengthening the ecological design as a purchasing criterion for consumers (2018)

Fischer, C.; Moch, K.; Prakash, S.; Prieß, R.; Scherf, C.; Seidl, R.; Teufel, J. in collaboration with Stieß, I.; Kresse, S.; Birzle-Harder, B.; in cooperation with Institute for Social-Ecological Research Ltd. (ISOE)
Commissioned by: German Environment Agency (UBA)

Extension of the product lifespan through the enforcement of consumer rights (2018)

Prakash, S.; Gailhofer, P.; Rüdener, I. in collaboration with Abel, G.; Teusch, C.; Kolodziej, M.; in cooperation with Oeko-Institut e.V.; Verbraucherinitiative e.V.
Commissioned by: German Environment Agency (UBA)

Influence of the service life of products in terms of their environmental impact: Establishing an information base and developing policies against 'obsolescence' (2016)

Prakash, S.; Antony, F.; Dehoust, G.; Gensch, C.; Graulich, K.; Gsell, M.; Hilbert, I.; Köhler, A.; Schleicher, T. in collaboration with Stamminger, R.; in cooperation with University of Bonn
Commissioned by: German Environment Agency (UBA)

Power efficiency classes for households: Supporting power-saving innovations in households, market and appliance technology - sub-project 2: optimization potentials, business models and energy saving potentials (2016)

Fischer, C.; Brommer, E.; Griebshammer, R. in collaboration with Seifried, D.; Stieß, I.; in cooperation with Büro Ö-quadrat; Institute for Social-Ecological Research Ltd. (ISOE)
Commissioned by: German Federal Ministry of Education and Research (BMBF)

Developing a concept for the overall reduction of energy demand: potentials, general conditions and tools to achieve energy saving goals of the National Energy Concept (2015)

Fischer, C.; Blanck, R.; Brohmann, B.; Cludius, J.; Förster, H.; Heyen, D.; Hünecke, K.; Keimeyer, F.; Kenkmann, T.; Schleicher, T.; Schumacher, K.; Wolff, F. in collaboration with Steiner, V.; Beznoska, M.; Gruber, E.; Holländer, E.; Roser, A.; Schakib-Ekbatan, K.; in cooperation with Freie Universität Berlin; Institute for Resource Efficiency and Energy Strategies GmbH (IREES)
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Further development of the strategy of the German National Climate Initiative: Optimization of the support program with a view to implementation of national climate targets (2015)

Repenning, J.; Brohmann, B.; Graulich, K.; Grießhammer, R.; Jörß, W.; Kenkmann, T.; Schüler, D.; Schumacher, K. in collaboration with Grünig, M.; et al.; in cooperation with Arepo Consult; Dr. Hans-Joachim Ziesing; Ecologic Institut gGmbH; Institute for Energy and Environmental Research (ifeu)
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Yearly Appliance Energy Cost Indication (2015)

Quack, D.; Brommer, E. in collaboration with van Leeuwen-Jones, R.; Huenges Wajer, B.; et al.; in cooperation with NL Agency (NL EVD Internationaal)
Commissioned by: Executive Agency for Competitiveness and Innovation

The Sharing Economy: suitable products and concepts for ownership-substituting use patterns (2015)

Gsell, M.; Dehoust, G.; Quack, D.
Commissioned by: Stiftung Zukunftserbe

Consumer benefits of standardisation (2014)

Fischer, C.; Gattermann, M.; Stratmann, B. in collaboration with Reisch, L.; in cooperation with Zeppelin University gGmbH
Commissioned by: German Society for the Promotion of Research on Standardization e.V.

Evaluation of the criteria for the ‚Bundespreis Ecodesign‘ (Federal ecodesign award) (2012)

Grießhammer, R.; Quack, D.
Commissioned by: IDZ DesignPartner Berlin GmbH

Target group-specific incentive programmes (2012)

Grießhammer, R.; in cooperation with Büro Ö-quadrat
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Energy-efficient climate protection in products - Project for the further development of the German National Climate Initiative (2012)

Grießhammer, R.; Brommer, E.; Fischer, C.; Gensch, C.; Rüdener, I.; Schleicher, T. in collaboration with Seifried, D.; in cooperation with Büro Ö-quadrat
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Concept for the communication of life-cycle costs to consumers (2011)

Rüdener, I.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Financial support for product development and marketing of energy-using products offering high efficiency (2011)

Grießhammer, R.; in cooperation with Büro Ö-quadrat; Ruhr West University of Applied Sciences
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

conCISE.net: Scientific network on sustainable development, innovation and competitiveness (2011)

Gensch, C.; Brohmann, B.; Dross, M.; Fritsche, U.; Grießhammer, R.; Kallenbach-Herbert, B.; Lohse, J.; Manhart, A.; Prakash, S.; Seum, S.; Wolff, F.; Zimmer, W.

Commissioned by: German Federal Ministry of Education and Research (BMBF)

Policies to promote sustainable consumption patterns in Europe (EUPOPP) (2011)

Quack, D.; Brohmann, B.; Fritsche, U.; Schönherr, N.; Wolff, F.; in cooperation with Baltic Environmental Forum (BEF); Eco Institut Barcelona (ECOI); Institute for Social-Ecological Research Ltd. (ISOE); Local Governments for Sustainability (ICLEI); National Consumer Research Center Finland (NCRC); University College London (UCL)

Commissioned by: European Commission, DG Research and Innovation

Beyond consumption restraint: Perspectives for climate compatible consumption. Contribution of the Platform for Climate Compatible Consumption Germany (2011)

Gensch, C.; Schmied, M. in collaboration with Prieß, R.; Reusswig, F; in cooperation with Potsdam Institute for Climate Impact Research (PIK); THEMA1 GmbH

Commissioned by: Oeko-Institut e.V.

Consumer's savings potential of CO2 emissions (2010)

Grießhammer, R.; Brommer, E.; Gattermann, M.; Teufel, J.; Zimmer, W.

Commissioned by: Federation of German Consumer Organisations (vzbv)

2.2. Ecodesign / Energy Labelling

Avoiding greenwashing, strengthening ecodesign - challenges for corporate and consumer communication (in progress)

Köhler, A.; Antony, F.; Bunke, D.; Gailhofer, P.; Gascon Castellero, L.; Graulich, K.; Heyen, D.; in cooperation with Environment Agency Austria; Rechtsanwälte Günther Partnerschaftsgesellschaft

Commissioned by: German Environment Agency (UBA)

The new Ecodesign Regulation: requirements for the ecodesign of textiles and the possible transfer to an ecodesign label (in progress)

Moch, K.; Antony, F.; Gascon Castellero, L.; López, V.; Lorösch, H.; Löw, C.; Teufel, J.; in cooperation with Hochschule Niederrhein ; Hof University

Commissioned by: German Environment Agency (UBA)

Service contract on support to Sustainable Product Initiative (in progress)

Graulich, K.; Adjei, F.; Gascon Castellero, L.; Hinchliffe, D.; López, V.; McLennan, A.; Moch, K. in collaboration with Reitemeyer, A.; Berlinghof, T.; Brockhorst, L.; Burgstaller, M.; Merzoug, L.; Parchomenko, A.; Romagnoli, V.; Zotz, F.; in cooperation with Behavia – Behavioral Public Policy and Economics GmbH; Carl Dalhammar, Lund University; Jessika Richter, Lund University; Ramboll Germany GmbH; Ramboll Kopenhagen

Commissioned by: European Commission, DG Environment

Support in the preparatory work for ecodesign and energy labelling measures including tyres labelling - Consumer NGOs: Stakeholder representation (2023)

Graulich, K.; Gröger, J.; Prakash, S.; Prieß, R.; Quack, D.; Rüdener, I. in collaboration with Barlassina, S.; in cooperation with The European Consumer Organisation (BEUC)

Commissioned by: European Commission, DG Energy

Scientific monitoring of the implementation of the Ecodesign Directive and Energy Labelling Regulation - 4th work programme (2022)

Graulich, K.; Gröger, J.; Prieß, R.; Quack, D.; Rüdener, I. in collaboration with Schischke, K.; Roedig, L.; Jepsen, D.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM); Ökopol – Institute for Environmental Strategies GmbH
Commissioned by: German Environment Agency (UBA)

ANTI-Circumvention of Standards for better market Surveillance (ANTICSS) (2021)

See also: www.anti-circumvention.eu

Graulich, K.; Rüdener, I.; Stratmann, B.; in cooperation with ADENE - Agência para a Energia ; AEA - Austrian Energy Agency; ASAE - Autoridade Segurança Alimentar e Económica; BHTC - Public Service Public Health, Food Chain Safety and Environment Belgium; BMDW - Federal Ministry Digital and Economic Affairs Austria ; CM - Community of Madrid; ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development; European Environmental Citizens Organisation for Standardisation (ECOS); FFII-LCOE - Fundación Para El Fomento De La Innovación Industrial Madrid; GRS - Gewerbeaufsichtsamt - Regierung von Schwaben; IMQ - Istituto Italiano del Marchio di Qualità ; NVWA - Netherlands Food and Consumer Product Safety Authority; Re/gent B.V.; SEI - Státní Energetická Inspekce; SEVEn - The Energy Efficiency Center; The Chamber of Commerce of Milan Monza Brianza Lodi; University of Bonn; VDE - Association for Electrical, Electronic & Information Technologies
Funded by: European Climate, Infrastructure and Environment Executive Agency

Scientific investigation to increase product-related energy efficiency (2021)

Rüdener, I.; Fischer, C.; Graulich, K.; Gröger, J.; Hanke, G.; Jacobs, J.; Keimeyer, F.; Prieß, R.; Quack, D.; Seidl, R. in collaboration with Weiß, U.; Brischke, L.; Stange, H.; Werle, M.; in cooperation with Institute for Energy and Environmental Research (ifeu)
Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)

Preparatory study for the Ecodesign and Energy Labelling Working Plan 2020-2024 (2021)

See also: <https://www.ecodesignworkingplan20-24.eu/>

Graulich, K.; Fischer, C. in collaboration with Kemna, R.; Viegand, J.; Gydesen, A.; in cooperation with Viegand Maagøe A/S
Commissioned by: European Commission, DG for Internal Market, Industry, Entrepreneurship and SMEs

Support in the preparatory work for ecodesign and energy labelling measures including tyres labelling and Energy Star labelling programme from: Lot 1: Consumer NGOs: stakeholder representation (2019)

Graulich, K.; Baron, Y.; Fischer, C.; Köhler, A.; Prakash, S.; Prieß, R.; Quack, D.; Rüdener, I.; Schleicher, T. in collaboration with Maignet, A.; et al.; in cooperation with The European Consumer Organisation (BEUC)
Commissioned by: European Commission, DG Energy

Scientific monitoring of the implementation of the ecodesign directive and the energy labelling directive - 3rd work programme (2019)

Graulich, K.; Baron, Y.; Gröger, J.; Prieß, R.; Schleicher, T. in collaboration with Schischke, K.; Stobbe, L.; Spengler, L.; Jepsen, D.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM); Ökopol – Institute for Environmental Strategies GmbH
Commissioned by: German Environment Agency (UBA)

Consumer survey – Utilization of programs on the occasion of new policy options to improve the ecodesign and energy labelling of washing machines (2017)

Graulich, K. in collaboration with Stamminger, R.; Geppert, J.; Belke, L.; in cooperation with University of Bonn

Commissioned by: Federal Office for Economic Affairs and Export Control

Support in the preparatory work for ecodesign and energy labelling measures from consumers and environmental NGOs, Lot 1: Consumers: Stakeholder representation (2017)

Brommer, E.; Baron, Y.; Fischer, C.; Graulich, K.; Gröger, J.; Prakash, S.; Quack, D.; Rüdener, I.; Schleicher, T. in collaboration with Malizou, A.; et al.; in cooperation with The European Consumer Organisation (BEUC)

Commissioned by: European Commission, DG Energy

Technical support for the revision of ecodesign and energy/resource label implementing measures for the product group: Household dishwashers (2016)

Graulich, K.; Rüdener, I. in collaboration with Stamminger, R.; Alborzi, F.; in cooperation with University of Bonn

Commissioned by: European Commission, DG Research and Innovation

Technical support for the revision of ecodesign and energy/resource label implementing measures for the product group: Household washing machines / washer-dryers (2016)

Graulich, K.; Rüdener, I. in collaboration with Stamminger, R.; Alborzi, F.; in cooperation with University of Bonn

Commissioned by: European Commission, DG Research and Innovation

Scientific monitoring of the implementation of the Ecodesign Directive and the Energy labelling Directive - Work programme for 2012 and beyond (2016)

Brommer, E.; Fischer, C.; Graulich, K.; Quack, D.; Schüler, D. in collaboration with Spengler, L.; in cooperation with Ökopool – Institute for Environmental Strategies GmbH

Commissioned by: German Environment Agency (UBA)

Scientific consultation on the implementation of Directive 2009/125/EC (Ecodesign) and Directive 2010/30/EU (Energy labelling) (2015)

Quack, D.; Bleher, D.; Blepp, M.; Stratmann, B. in collaboration with Reintjes, N.; Jepsen, D.; Spengler, L.; Brischke, L.; in cooperation with Institute for Energy and Environmental Research (ifeu); Ökopool – Institute for Environmental Strategies GmbH

Commissioned by: German Environment Agency (UBA)

Preparatory study to establish the Ecodesign Working Plan 2015-2017 implementing Directive 2009/125/EC (2015)

Fischer, C.; Brommer, E.; Gensch, C.; Graulich, K.; Gröger, J.; Manhart, A.; Prieß, R.; Schleicher, T. in collaboration with Tinetti, B.; Lemeillet, A.; Mudgal, S.; in cooperation with BIO Intelligence Service; ERA Technology Ltd.

Commissioned by: European Commission, DG Enterprise and Industry

Evaluation of the Energy Labelling Directive and specific aspects of the Ecodesign Directive (2014)

Fischer, C.; Diesner, M.; Graulich, K.; Quack, D. in collaboration with Molenbroek, E.; Groenenberg, H.; Smith, M.; in cooperation with ECOFYS

Commissioned by: European Commission, DG Energy

Technical assistance to the stakeholder representation of consumer organisations in preparatory work for implementing measures - Lot C (2013)

Quack, D.; Bleher, D.; Blepp, M.; Brohmann, B.; Bürger, V.; Fischer, C.; Graulich, K.; Gröger, J.; Manhart, A.; Prakash, S.; Rüdener, I.; Schleicher, T.; Stratmann, B.; Zangl, S. in collaboration with Gasc, E.; Maurer, S.; in cooperation with ANEC; The European Consumer Organisation (BEUC)
Commissioned by: European Commission, DG Energy

Common appliance policy - all for one, one for all - energy labels (ComeOn Labels) (2013)

See also: www.come-on-labels.eu

Fischer, C.; Brommer, E.; Rüdener, I.; Teufel, J. in collaboration with Krivosik, J.; Alentova, M.; et al.; in cooperation with SEVEN - The Energy Efficiency Center
Commissioned by: Executive Agency for Competitiveness and Innovation

Energy efficiency labelling and labelling systems (2011)

Fischer, C.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Work on preparatory studies for ecodesign requirements of EuP(s). Lot 24 - Professional washing machines, dryers and dishwashers. Part: Dishwashers (2011)

Rüdener, I.; Blepp, M.; Brommer, E.; Gensch, C.; Graulich, K.
Commissioned by: European Commission, DG Energy

Work on preparatory studies for ecodesign requirements of EuP(s). Lot 24 - Professional washing machines, dryers and dishwashers. Part: Washing machines and dryers (2011)

Graulich, K.; Blepp, M.; Brommer, E.; Gensch, C.; Rüdener, I.; in cooperation with Büro Ö-quadrat
Commissioned by: European Commission, DG Energy

Preparatory studies for eco-design requirements of EuPs (II) and on stakeholder representation - Lot C: consumers' representation (2010)

Graulich, K.; Blepp, M.; Brohmann, B.; Brommer, E.; Bürger, V.; Fischer, C.; Gröger, J.; Manhart, A.; Prakash, S.; Quack, D.; Rüdener, I.; Stratmann, B.; Zangl, S.; in cooperation with ANEC; The European Consumer Organisation (BEUC)
Commissioned by: European Commission, DG Energy

2.3. Eco Labelling

Further development of the product portfolio of the Blue Angel ecolabel - framework project 2023 (in progress)

Schleicher, T.; Behrens, F.; Bunke, D.; Gröger, J.; Hermann, A.; Köhler, A.; Liu, R.; Löw, C.; McLennan, A.; Prakash, S.; in cooperation with Ökopol – Institute for Environmental Strategies GmbH
Commissioned by: German Environment Agency (UBA)

New award criteria for the Blue Angel - Framework project 2021 for the further development of the Blue Angel ecolabel (in progress)

Moch, K.; Gascon Castillero, L.; Gsell, M.; Lorösch, H.; Löw, C.; McLennan, A.; Merz, C.; Stahl, H.; Sutter, J. in collaboration with Knörzer, U.; Polania Giese, J.; in cooperation with adelphi research gGmbH
Commissioned by: German Environment Agency (UBA)

Further development and consolidation of the Blue Angel for energy-efficient data centre operation and climate-friendly co-location data centres as well as the management of advisory services *(in progress)*

Gröger, J.; Behrens, F.; Liu, R.; in cooperation with Data Center Excellence GmbH
Commissioned by: German Environment Agency (UBA)

Further development of the Blue Angel ecolabel for software - extension of the scope to include server-client applications and applications for mobile devices *(in progress)*

Gröger, J.; Behrens, F.; Liu, R. in collaboration with Naumann, S.; in cooperation with Trier University of Applied Sciences
Commissioned by: German Environment Agency (UBA)

Substance requirements in the award criteria of the Blue Angel ecolabel - development of a guideline *(in progress)*

Bunke, D.; Moch, K. in collaboration with Oltmanns, J.; Macherey, M.; in cooperation with Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG)
Commissioned by: German Environment Agency (UBA)

Energy efficiency parameters of software development components and tools, and preliminary work on establishing a label for energy-efficient software *(in progress)*

Gröger, J.; Behrens, F. in collaboration with Schulze, M; Saß, T.; Leufgen, S.; in cooperation with Sustainable Digital Infrastructure Alliance e.V.
Commissioned by: German Environment Agency (UBA)

Development and revision of criteria for the Blue Angel for textiles *(2023)*

Teufel, J.; Antony, F.; Hilbert, I.; Köhler, A.; López, V.; Moch, K.; Prakash, S.; Stuber-Rousselle, K. in collaboration with Jäger, I.; Müller, R.; Vogel, C.; in cooperation with Hydrotox GmbH; Institute for Ecological Economy Research (IÖW)
Commissioned by: German Environment Agency (UBA)

Extending the integration of social aspects in the ecolabel Blue Angel *(2021)*

Prakash, S.; Gailhofer, P.; Hilbert, I.; Schleicher, T. in collaboration with Ferenschild, S.; Knoke, I.; Pieper, An.; Gojowczyk, J.; Abel, G.; Rubik, F.; in cooperation with Institute for Ecological Economy Research (IÖW); Südwind - Institut für Ökonomie und Ökumene; Verbraucherinitiative e.V.
Commissioned by: German Environment Agency (UBA)

40 years of Blue Angel – refinement of the existing product range *(2021)*

Gröger, J.; Behrens, F.; Köhler, A.; Liu, R.; Löw, C.; Moch, K.; Prakash, S.; Quack, D.; Rüdener, I.; Schleicher, T.; Stratmann, B. in collaboration with Guldner, A.; Kern, E.; Naumann, S.; in cooperation with BertramSturm Design; Carmao GmbH; Trier University of Applied Sciences
Commissioned by: German Environment Agency (UBA)

Market investigation as a preliminary study for a revision of the ecolabel DE-UZ 153 Technically dried wood chips / wood pellets *(2021)*

Quack, D.; Stuber-Rousselle, K.
Commissioned by: German Environment Agency (UBA)

Methodological challenges for ecolabels in the Global Ecolabelling Network – Evaluation and traceability of critical raw materials and determination of quantitative environmental savings potentials (2020)

Prakash, S.; Hilbert, I.; Manhart, A.; Rüdener, I. in collaboration with Iraldo, F.; Domröse, L.; Polania Gíese, J. C.; Weiss, D.; in cooperation with adelphi consult GmbH; Bocconi University Milano; Uni Pisa Istituto di Economia e Politica dell'Energia e dell'Ambiente
Commissioned by: German Environment Agency (UBA)

Research on the acquisition of new label holders for existing ecolabels (2020)

Rüdener, I.; Gröger, J.; Moch, K.; Stratmann, B.
Commissioned by: RAL - Gütegemeinschaft Rückproduktion von Kühlgeräten e.V.

Development and testing of a concept for introducing independent product controls on the market for the Blue Angel ecolabel (2020)

Graulich, K.; Blepp, M.; Brommer, E.; Fischer, C.; Stratmann, B. in collaboration with Barnack, M.; Höcke, G.; in cooperation with TÜV Nord AG
Commissioned by: German Environment Agency (UBA)

Promoting environmental-friendly services in ASEAN taking the example of Germany's environmental standards, such as the Blue Angel label (2019)

Prakash, S.; Prieß, R.; Schleicher, T.
Funded by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Identification of elements for a future 'Strategy for the EU Ecolabel' (2020)

Prakash, S.; Prieß, R.; Quack, D.; Seidl, R. in collaboration with Iraldo, F.; Barberio, M.; Daddi, T.; Gasbaro, F.; in cooperation with Sant'Anna School of Advanced Studies - Pisa
Commissioned by: European Commission, DG Environment

Further development of the Blue Angel program through new ecolabels and revision of existing ones in innovation-oriented product groups (2020)

Gröger, J.; Hilbert, I.; Kasten, P.; Köhler, A.; Liu, R.; Moch, K.; Rüdener, I.; Stratmann, B.; in cooperation with Eurofins Product Testing A/S
Commissioned by: German Environment Agency (UBA)

Revision and further development of the environmental criteria in the clothing and textiles product group (2018)

Teufel, J.; Hilbert, I.; Moch, K.
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

The Blue Angel - a national label with international impact. Award criteria for air conditioning units and international harmonisation work (2018)

Schleicher, T.; Gröger, J.; Liu, R. in collaboration with Heubes, J.; Colbourne, D.; Croiset, J.; Oppelt, D.; in cooperation with Heat GmbH
Commissioned by: German Environment Agency (UBA)

Implementation of sustainability criteria for the material use of biomass in the scope of the Blue Angel scheme (Blauer Engel) (2019)

Wiegmann, K.; Gröger, J.; Hennenberg, K.; Hünecke, K.; Moch, K. in collaboration with Fehrenbach, H.; in cooperation with Institute for Energy and Environmental Research (ifeu)
Commissioned by: German Environment Agency (UBA)

Evaluation of sustainability standards in the product groups leather, textiles, detergents and cleaning agents (2017)

Moch, K.; Blepp, M.; Teufel, J.; in cooperation with Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Commissioned by: German Federal Ministry for Economic Cooperation and Development (BMZ)

Further development of the Blue Angel program through new ecolabels and revision of the existing ones (2017)

Gröger, J.; Brommer, E.; Graulich, K.; Schleicher, T.; Stratmann, B. in collaboration with Jepsen, D.; Spengler, L.; Wirth, O.; Zimmermann, T.; in cooperation with Ökopool – Institute for Environmental Strategies GmbH

Commissioned by: German Environment Agency (UBA)

Blue Angel for thermal insulation composite systems - Further development of the ecological criteria for the promotion of increased use of biocide-free plasters and coatings (2017)

Blepp, M. in collaboration with Joas, A.; et al.; in cooperation with Consultancy for integrated solutions (BiPRO)

Commissioned by: German Environment Agency (UBA)

Development of assessment criteria and collection of data for the evaluation of sustainability standards (2016)

Teufel, J.; Blepp, M.; Graulich, K.; Gröger, J.; Moch, K.; Prakash, S.; Stratmann, B.; in cooperation with Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Commissioned by: German Federal Ministry for Economic Cooperation and Development (BMZ)

Product Carbon Footprint: Options for methodological integration into an existing type 1 ecolabel (Blue Angel) with special emphasis on communication aspects and on monitoring of the standardisation process (2015)

Gensch, C.; Liu, R.; Prieß, R.; Stratmann, B.; Teufel, J.; in cooperation with TU Berlin - Institute for Landscape Architecture and Environmental Planning

Commissioned by: German Environment Agency (UBA)

Technical support for the revision of the European Ecolabel criteria: Televisions (2014)

Graulich, K.; Bunke, D.; Groß, R.; Liu, R.; Manhart, A.; Prakash, S.

Commissioned by: European Commission, DG Research and Innovation

Technical support for the revision of the European Ecolabel and Green Public Procurement (GPP) criteria: Desktop and notebook computers (2014)

Graulich, K.; Groß, R.; Heyen, D.; Liu, R.; Manhart, A.; Prakash, S.

Commissioned by: European Commission, DG Research and Innovation

Expert advice related to the project 'Quality check of sustainability standards' (2014)

Teufel, J.; Fischer, C.; Stratmann, B.; in cooperation with Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Commissioned by: German Federal Ministry for Economic Cooperation and Development (BMZ)

Strengthening the international use of the ecolabel, the Blue Angel (2014)

Prakash, S.; Gröger, J.; in cooperation with Brands GmbH; lichtl Ethics & Brands

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Analysis of Migros' eco standards for textiles (2014)

Teufel, J.; Bunke, D.; Hünecke, K.; Stratmann, B.

*Commissioned by: World Wide Fund For Nature International (WWF International)***Low-emission public procurement and ecolabelling - Support of a GIZ project in the detailed design of the regional workshop 'Green Public Procurement and Ecolabelling' in Thailand**

(2013)

Manhart, A.

*Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)***Revision and further development of the 'Blue Angel' climate label: Expertises on the revision of existing award criteria for ecolabels and on the update of the Top 100 project on climate-relevant products (2014)**

Gröger, J.; Gattermann, M.; Prakash, S.; Quack, D.; Schleicher, T.; Stratmann, B.

*Commissioned by: German Environment Agency (UBA)***Advisory services on ecolabelling in Thailand and the ASEAN region (2013)**

Manhart, A.; Blepp, M.; Brommer, E.; Gattermann, M.; Havers, K.; Liu, R.; Schleicher, T.; Stratmann, B.; Teufel, J.

*Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)***Indicators and criteria of an overarching sustainability seal (2013)**

Teufel, J.; Fischer, C.; Manhart, A.

*Commissioned by: Office of Technology Assessment at the German Bundestag (TAB)***Top 100: PROSA sanitary fittings - Developing the award criteria for a climate label (2013)**

Quack, D.

*Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)***Top 100: PROSA Street lighting - Developing the award criteria for a climate label (2013)**

Gröger, J.; in cooperation with Ökopol – Institute for Environmental Strategies GmbH

*Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)***Top 100: PROSA Data shredders for office use - Developing the award criteria for a climate label (2012)**

Stratmann, B.; Quack, D.

*Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)***Top 100: Feasibility study: climate label for intermodal transportation systems - Developing the award criteria for a climate label (2012)**

Gröger, J.; Bleher, D.; Havers, K.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100 - Ecolabel for climate-relevant products (2012)

Gröger, J.; Acker, H.; Barth, R.; Bleher, D.; Blepp, M.; Brommer, E.; Bunke, D.; Fischer, C.; Fritsche, U.; Havers, K.; Hennenberg, K.; Liu, R.; Manhart, A.; Marquardt, M.; Mottschall, M.; Prakash, S.; Quack, D.; Schleicher, T.; Schmied, M.; Schüler, D.; Seum, S.; Stratmann, B.; Zangl, S.; in cooperation with Gesellschaft für Angewandten Umweltschutz und Sicherheit im Seeverkehr; Institut für Umweltinformatik (ifu); Institute for Energy and Environmental Research (ifeu); lichtl Ethics & Brands; Ökopol – Institute for Environmental Strategies GmbH
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Bicycles - Developing the award criteria for a climate label (2012)

Gröger, J.; Mottschall, M.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Energy and water saving shower heads - Developing the award criteria for a climate label (2011)

Quack, D.; Brommer, E.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Door phone and intercom systems - Developing the award criteria for a climate label (2011)

Stratmann, B.; Gröger, J.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Passenger elevators - Developing the award criteria for a climate label (2011)

Blepp, M.; Quack, D.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Comparison of the European ecolabel for textile products and the German ecolabel 'Blue Angel' for textiles with the bluesign®-Standard (2012)

Teufel, J.; Blepp, M.; Groß, R.; Moch, K.; Quack, D.
Commissioned by: W.L. GORE & Associates GmbH

Green labels - Assessment and critical review of labelling schemes in the field of building and construction (2011)

Gröger, J.; Quack, D.
Commissioned by: European Insulation Manufacturers Association (EURIMA)

Certification of low-carbon product groups in China and Germany (2011)

Grießhammer, R.; Liu, R.; Prakash, S.; Zangl, S.; in cooperation with China Environmental United Certification Center (CEC)
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Requirements on Consumer Information about Product Carbon Footprint (2010)

Quack, D.; Teufel, J.
Commissioned by: ANEC

2.4. Green procurement

Steering and steadiness of the stakeholder process and support in the development and implementation of a national circular economy strategy *(in progress)*

See also: <https://dialog-nkws.de/bmu/de/home>

Prakash, S.; Gascon Castellero, L.; Graulich, K.; Hermann, A.; Hinchliffe, D.; Löw, C.; Moch, K.; in cooperation with Institut für Organisationskommunikation GmbH (IFOK); Wuppertal Institut für Klima, Umwelt, Energie gGmbH

Commissioned by: Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV)

Further development of the product portfolio of the Blue Angel ecolabel - framework project 2023 *(in progress)*

Schleicher, T.; Behrens, F.; Bunke, D.; Gröger, J.; Hermann, A.; Köhler, A.; Liu, R.; Löw, C.; McLennan, A.; Prakash, S.; in cooperation with Ökopol – Institute for Environmental Strategies GmbH

Commissioned by: German Environment Agency (UBA)

Accompanying scientific research on a climate-neutral federal administration *(in progress)*

Antony, F.; Braungardt, S.; Cames, M.; Graulich, K.; Keimeyer, F.; Liu, R.; Mottschall, M.; Stuber-Rousselle, K.; Teufel, J.; von Vittorelli, L.; Wagner, T. in collaboration with Seefeldt, F.; Sandhövel, M.; Haberer, L.; Beeg; Spöttle, M.; in cooperation with FutureCamp Holding GmbH; Prof. Dr. Stefan Klinski; Prognos AG

Commissioned by: Federal Ministry for Economic Affairs and Climate Action (BMWK)

Scientific support and monitoring of the National Circular Economy Strategy *(in progress)*

Prakash, S.; Gascon Castellero, L.; Graulich, K.; Hermann, A.; Hilbert, I.; Hinchliffe, D.; Löw, C.; Moch, K.

Commissioned by: German Environment Agency (UBA)

Development of methodological principles and working aids for climate protection and circular economy aspects in public procurement practice *(in progress)*

Graulich, K.; Antony, F.; Gascon Castellero, L.; Gröger, J.; Hermann, A.; Keimeyer, F.; McLennan, A.; Moch, K.; Prakash, S.; Schleicher, T.; Stuber-Rousselle, K.; Teufel, J. in collaboration with Vogel, C.; Rubik, F.; in cooperation with Institute for Ecological Economy Research (IÖW)

Commissioned by: German Environment Agency (UBA)

Environmental science and market research on product group-related minimum requirements for the public procurement of technical equipment *(2021)*

Rüdenauer, I.; Behrens, F.; Gröger, J.; Hilbert, I.; McLennan, A.; Schleicher, T.

Commissioned by: Senate Department for the Environment, Urban Mobility, Consumer Protection and Climate Action

Rethinking economic efficiency: Investment decisions in the service of environmental protection *(2021)*

Braungardt, S.; Bürger, V.; Hünecke, K.; Keimeyer, F.; Köhler, B.; Prieß, R.; Schumacher, K.; Wiegmann, K.; Wolff, F. in collaboration with Aydemir, A.; Neusel, L.; in cooperation with Fraunhofer Institute for Systems and Innovation Research (Fraunhofer ISI)

Commissioned by: German Environment Agency (UBA)

Biodiversity criteria in procurement II – Further development and practice-based substantiation of biodiversity criteria in selected product groups of public procurement on the part of the German federal government (2020)

Teufel, J.; Hermann, A.; Hilbert, I.; Stratmann, B. in collaboration with Dageförde, A.; Müller, R.; in cooperation with Dageförde Öffentliches Wirtschaftsrecht Rechtsanwalts-gesellschaft mbH; Institute for Ecological Economy Research (IÖW)

Commissioned by: Federal Agency for Nature Conservation (BfN)

Revision of the EU Green Public Procurement (GPP) Criteria for Computers and Monitors (and extension to Smartphones) (2020)

Graulich, K.; Hünecke, K.

Commissioned by: European Commission, DG Research and Innovation

Training courses in the context of the training initiative Green Public Procurement (GPP) Baden-Wuerttemberg (2019)

Rüdenauer, I.; Gröger, J.; Jacobs, J.; Köhler, A.; Teufel, J.

Commissioned by: Landesanstalt für Umwelt Baden-Württemberg (LUBW)

Updating of six product guidelines for sustainable procurement (2019)

Quack, D.; Gröger, J.; Jacobs, J.; Rüdenauer, I.; Seidl, R.; Teufel, J.

Commissioned by: Landesanstalt für Umwelt Baden-Württemberg (LUBW)

Elaboration of scientific principles to promote the inclusion of environmental criteria in the award of contracts by public authorities (2019)

Gröger, J.; Brommer, E.; Hermann, A.; Moch, K.; Stratmann, B. in collaboration with Rubik, F.; Müller, R.; in cooperation with Institute for Ecological Economy Research (IÖW)

Commissioned by: German Environment Agency (UBA)

Green Public Procurement of Pharmaceuticals in the Baltic Sea Region (GrePPP) (2018)

Moch, K. in collaboration with Johansson, K.; Schaaf, N.; in cooperation with Stockholm International Water Institute (SIWI)

Funded by: Interreg Baltic Sea Region

Adaptation and update of the administrative regulation ‚Procurement and Environment - VwVBU‘ (2018)

Rüdenauer, I.; Brommer, E.; Gröger, J.; Hermann, A.; Stratmann, B.

Commissioned by: Senate Department for Urban Development and the Environment Berlin

Biodiversity criteria in public procurement and in the building sector - feasibility study & action plans (2017)

Teufel, J.; Hermann, A. in collaboration with Gardt, S.; Hörmann, S.; Hammerl, M.; Schulz, S.; Müller, R.; in cooperation with Bodensee Stiftung; Global Nature Fund; Institute for Ecological Economy Research (IÖW)

Commissioned by: Federal Agency for Nature Conservation (BfN)

Scientific monitoring of the relevant processes in green public procurement (2016)

Gröger, J.; Blepp, M.; Brommer, E.; Hermann, A.; Stratmann, B.; Teufel, J. in collaboration with Rubik, F.; Müller, R.; in cooperation with Institute for Ecological Economy Research (IÖW)

Commissioned by: German Environment Agency (UBA)

Continuation of the former training series as part of the implementation of the administrative regulation on ,public procurement and environment‘ (2015)

Brommer, E.; Blepp, M.; Gröger, J.; Stratmann, B.

Commissioned by: Senate Department for Urban Development and the Environment Berlin

Product Guide for Sustainable Public Procurement in the Framework of the Municipal Sustainability Initiative of Baden-Wuerttemberg (2016)

Gröger, J.; Prieß, R.; Stratmann, B.; Teufel, J.

Commissioned by: Landesanstalt für Umwelt Baden-Württemberg (LUBW)

Update on the label-review ,Evaluation of selected product groups according to environmental and social criteria‘ (2015)

Brommer, E.; Stratmann, B.

Commissioned by: Regional Authority of the Rheinland (LVR)

Investigation of the effects of GPP in terms of environmental relief, costs of relevant products as well as of services and construction works in the framework of sustainable procurement as compared to a conventional procurement in the Land of Berlin (2015)

Gröger, J.; Brommer, E.; Stratmann, B.

Commissioned by: Senate Department for Urban Development and the Environment Berlin

Evaluating the implementation of the administrative regulation on green public procurement, and developing measures to optimise procurement implementation (2015)

Gröger, J.; Brommer, E.; Stratmann, B.

Commissioned by: Senate Department for Urban Development and the Environment Berlin

Revision of the LUBW brochure ,More environment for the same amount of money‘ on the sustainable procurement of products and services (2014)

Gröger, J.; Brommer, E.; Diesner, M.; Hermann, A.; Stratmann, B.

Commissioned by: Landesanstalt für Umwelt Baden-Württemberg (LUBW)

Preparation of a performance sheet and a life-cycle calculation tool for the public procurement of data centres (2013)

Gröger, J.; Brommer, E.

Commissioned by: Senate Department for Urban Development and the Environment Berlin

Revision of the environmental requirements contained in the administrative regulation on green public procurement - VwVBU, annex 1 (performance data sheets), section: indoor lighting (2013)

Schleicher, T.; Gattermann, M.

Commissioned by: Senate Department for Urban Development and the Environment Berlin

Preparation of a data sheet for the sustainable public procurement of textiles (2013)

Teufel, J.; Stratmann, B.

Commissioned by: Senate Department for Urban Development and the Environment Berlin

Preparation of environmental protection requirements for the public procurement of passenger lifts (2013)

Blepp, M.

Commissioned by: Senate Department for Urban Development and the Environment Berlin

Statement on the public debate on energy saving lamps, for use in the training of ,energy saving advisors‘ in the large-scale German campaign ,Energy Saving Check‘ (,Aktion Stromspar-Check‘) (2013)

Schleicher, T.

Commissioned by: Bundesverband der Energie- und Klimaschutzagenturen Deutschlands e.V. (eaD)

Compilation of environmental and social criteria as regards tendering of postal services (2012)

Quack, D.; Graulich, K.; Stratmann, B.

Commissioned by: Regional Authority of the Rheinland (LVR)

Further development of green procurement with regard to the European Union’s Action Plan for sustainable consumption and production (SCP) and sustainable industrial policy (SIP) and its Communication on Green Public Procurement (2012)

Gröger, J.; Acker, H.; Brommer, E.; Teufel, J. in collaboration with Rubik, F.; in cooperation with Institute for Ecological Economy Research (IÖW)

Commissioned by: German Environment Agency (UBA)

Update on the label-review ,Evaluation of selected product groups according to environmental and social criteria‘ (2012)

Manhart, A.; Brommer, E.

Commissioned by: Regional Authority of the Rheinland (LVR)

Critical review of the ecological efficiency analysis ,Comparison of different types of processing and of packaging alternatives for apple juice‘ (2011)

Gensch, C.; Gattermann, M.

Commissioned by: Verband der deutschen Fruchtsaft-Industrie e.V. (VdF)

Early market creation of innovative highly energy-efficient technologies through smarter engagement with the market in the pre-procurement phase (SMART-SPP) (2011)

Gröger, J.; Möller, M.; Seebach, D. in collaboration with Clement, S.; Tepper, P.; Wintermayr, I.; Adell, A.; Esquerra, J.; Estevan, H.; in cooperation with Eco Institut Barcelona (ECOI); Local Governments for Sustainability (ICLEI)

Commissioned by: Intelligent Energy – Europe programme

Evaluation of selected product groups according to environmental and social criteria. Update of the expertise of December 2009 (2011)

Manhart, A.; Gattermann, M.; Stratmann, B.; Teufel, J.

Commissioned by: Regional Authority of the Rheinland (LVR)

2.5. Consumer information

Scientific support for the Competence Centre for Sustainable Consumption and the National Network for Sustainable Consumption (in progress)

See also: <https://nachhaltigerkonsum.info/>

Quack, D.; Heyen, D.; López, V.

Commissioned by: German Environment Agency (UBA)

The Consumer as an Actor in Supply Chain Regulation: A Consumer’s View of Human Rights Risks in the Supply Chain (in progress)

Gailhofer, P.; Brunn, C.; Fischer, C.; Heyen, D.; López, V. in collaboration with Thorsten Brand; in cooperation with Dr. Carola Glinski; Institute for Applied Social Sciences (infas)

Commissioned by: Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV)

Particularly environmentally friendly products at Saturn: Current EcoTopTen product recommendations 2022 / 2023 (2023)

See also: <https://www.ecotopten.de/>

Quack, D. in collaboration with Albert-Seifried, S.; in cooperation with Büro Ö-quadrat
Commissioned by:

Preparation of a data base for the e.on energy calculator (2023)

Fischer, C.; Behrens, F.; Rüdener, I.

Commissioned by: E.ON

Utopia Product 2022. Particularly environmentally friendly products at Saturn: current EcoTopTen product recommendations (2022)

See also: <https://www.ecotopten.de/>

Quack, D. in collaboration with Albert-Seifried, S.; in cooperation with Büro Ö-quadrat; Utopia GmbH
Commissioned by: MediaMarktSaturn Retail Group

Utopia Product 2021. Particularly environmentally friendly products at Saturn: Current EcoTopTen product recommendations (2022)

See also: <https://www.ecotopten.de/>

Quack, D. in collaboration with Albert-Seifried, S.; in cooperation with Büro Ö-quadrat
Commissioned by: Media-Saturn-Holding GmbH

Utopia Product 2020. Particularly environmentally friendly products at Saturn: Current EcoTopTen product recommendations (2021)

See also: <https://www.ecotopten.de/>

Quack, D.; Jacobs, J. in collaboration with Seifried, S.; in cooperation with Büro Ö-quadrat
Commissioned by: Utopia AG

Utopia Product 2019. Especially environmentally friendly products at Saturn: Current EcoTopTen product recommendations (2019)

Quack, D.; Jacobs, J. in collaboration with Seifried, S.; in cooperation with Büro Ö-quadrat

Commissioned by: Saturn Management Corporation

Identification and development of a strategy for the long-term continuation of the EcoTopTen information platform for top ecological topproducts [www.ecotopten](http://www.ecotopten.de) (2019)

Quack, D.; Gröger, J.; Jacobs, J.; Seidl, R.; Stratmann, B.

Funded by: Stiftung Zukunftserbe

Utopia Product 2017: Particularly eco-friendly Saturn products: Current EcoTopTen product recommendations (2018)

Quack, D.; Jacobs, J. in collaboration with Gebhard, M.; et al.; in cooperation with Utopia AG

Commissioned by: Saturn Management Corporation

Utopia Product 2018: Particularly environmentally friendly products at Saturn: Current EcoTopTen product recommendations (2018)

Quack, D.; Jacobs, J. in collaboration with Gebhard, M.; et al.; in cooperation with Utopia AG

Commissioned by: Saturn Management Corporation

Enabling consumer action towards top energy-efficient products (‘TOPTEN ACT’) (2018)

Quack, D.; Brommer, E.; Jacobs, J. in collaboration with Kreitz, T.; Attali, S.; in cooperation with The French Agency for Ecological Transition (ADEME)

Funded by: Executive Agency for Small and Medium-sized Enterprises (EASME)

The EcoTopTen product award - focus on Energy Saving (SEK) (2018)

Quack, D.; Hilbert, I.; Jacobs, J.; Rüdener, I.; Seidl, R.; Stratmann, B.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Utopia Product 2016. Environmentally sound products available at Saturn stores: Current EcoTopTen product recommendations (2017)

Quack, D.; Jacobs, J. in collaboration with Gebhard, M.; et al.; in cooperation with Utopia AG

Commissioned by: Saturn Management Corporation

Utopia Product 2015. Environmentally sound products available at Saturn stores: Current EcoTopTen product recommendations (2016)

Quack, D.; Jacobs, J. in collaboration with Gebhard, M.; et al.; in cooperation with Utopia AG

Commissioned by: Saturn Management Corporation

Utopia Product 2014. Environmentally sound products available at Saturn stores: Current EcoTopTen product recommendations (2015)

Quack, D.; Jacobs, J. in collaboration with Gebhard, M.; Trax, M.; in cooperation with Utopia AG

Commissioned by: Saturn Management Corporation

EcoTopTen 2.0 - Promoting energy efficient products and energy savings through market surveys, social media activities and campaigns (2014)

See also: www.ecotopten.de

Quack, D.; Blepp, M.; Brommer, E.; Gattermann, M.; Hacker, F.; Liu, R.; Manhart, A.; Marquardt, M.;

Prakash, S.; Schleicher, T.; Stratmann, B.; Teufel, J.; in cooperation with Utopia-Stiftung

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Maximising TopTen Communication on Top Runner Products (2014)

See also: www.topten.eu

Quack, D.; Blepp, M.; Brommer, E.; Gattermann, M.; Stratmann, B. in collaboration with Kreitz, T.;

in cooperation with The French Agency for Ecological Transition (ADEME)

Commissioned by: Intelligent Energy – Europe programme

Consulting services as part of the energy saving initiative phase IV for Work package 3: conceptual design and implementation of the ‚current mirror‘ (2015)

Quack, D. in collaboration with Metzger, S.; Fleischman, C.; Jahnke, K.; in cooperation with co2online gGmbH

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Digital energy savings calculator (2014)

Quack, D.; Brommer, E.

Commissioned by: Media-Saturn-Holding GmbH

Ecological Consumer Policy: Tools for Implementation. Sub-project 1: Orientation Portal for Sustainable Consumption (2014)

Fischer, C.; Quack, D. in collaboration with Unger, L.; Wiedemann, P.; Richter, F.; in cooperation with Studio Good GbR; Zeitbild Verlag und Agentur für Kommunikation GmbH

Commissioned by: German Environment Agency (UBA)

Utopia Product 2013. Environmentally sound products available at Saturn stores: Current EcoTopTen product recommendations, guidebook for the point of sale and guidelines for the sales staff (2014)

Quack, D.; Brommer, E.; Manhart, A.; Schleicher, T. in collaboration with Gebhard, M.; Trax, M.; in cooperation with Utopia AG
Commissioned by: Saturn Management Corporation

Power-saving initiative by the German Federal Ministry of the Environment, Nature Conservation and Reactor Safety (BMU), Part II: '1st pillar of the BMU Power Saving Initiative: integrated web-based offering' (2013)

Quack, D.; Gattermann, M.; Griebshammer, R. in collaboration with Uthmann, O.; et al.; Metzger, S.; in cooperation with co2online gGmbH; KNSK Werbeagentur GmbH
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Smart products fostering green behaviour (2012)

Brommer, E.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Utopia Produkt 2012. Developing criteria and providing product ranking lists on the basis of EcoTopTen and Top100 (2012)

Quack, D.; Blepp, M.; Brommer, E.; Gattermann, M. in collaboration with Gebhard, M.; Trax, M.; et al.; in cooperation with Utopia AG
Commissioned by: Saturn Management Corporation

Extension and strengthening of the European Topten Initiatives and of the market for innovative and efficient products (2012)

Quack, D.; Gensch, C.; Griebshammer, R.; Rüdener, I.; Stratmann, B.; Zangl, S. in collaboration with Kreitz, T.; in cooperation with The French Agency for Ecological Transition (ADEME)
Commissioned by: Intelligent Energy – Europe programme

Energy efficiency - now! Campaign for households and companies. EcoTopTen market surveys (2011)

Quack, D.; Gensch, C.; Möller, M.; Prakash, S.; Rüdener, I.; Teufel, J.; Zangl, S.
Commissioned by: German Federal Environmental Foundation (DBU)

2.6. Sustainable consumption in specific sectors

2.6.1. Textiles

Steering and steadiness of the stakeholder process and support in the development and implementation of a national circular economy strategy (in progress)

See also: <https://dialog-nkws.de/bmu/de/home>

Prakash, S.; Gascon Castellero, L.; Graulich, K.; Hermann, A.; Hinchliffe, D.; Löw, C.; Moch, K.; in cooperation with Institut für Organisationskommunikation GmbH (IFOK); Wuppertal Institut für Klima, Umwelt, Energie gGmbH
Commissioned by: Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV)

The new Ecodesign Regulation: requirements for the ecodesign of textiles and the possible transfer to an ecodesign label *(in progress)*

Moch, K.; Antony, F.; Gascon Castellero, L.; López, V.; Lorösch, H.; Löw, C.; Teufel, J.; in cooperation with Hochschule Niederrhein ; Hof University

Commissioned by: German Environment Agency (UBA)

Scientific support and monitoring of the National Circular Economy Strategy *(in progress)*

Prakash, S.; Gascon Castellero, L.; Graulich, K.; Hermann, A.; Hilbert, I.; Hinchliffe, D.; Löw, C.; Moch, K.

Commissioned by: German Environment Agency (UBA)

Development and revision of criteria for the Blue Angel for textiles *(2023)*

Teufel, J.; Antony, F.; Hilbert, I.; Köhler, A.; López, V.; Moch, K.; Prakash, S.; Stuber-Rousselle, K. in collaboration with Jäger, I.; Müller, R.; Vogel, C.; in cooperation with Hydrotox GmbH; Institute for Ecological Economy Research (IÖW)

Commissioned by: German Environment Agency (UBA)

Consultation and support for the Partnership for Sustainable Textiles in the implementation of corporate due diligence, in particular the further development of the environmental strategy *(2022)*

Kampffmeyer, N.; Gascon Castellero, L.; López, V.; Löw, C.; Moch, K.; Scherf, C.; Stuber-Rousselle, K.; Teufel, J.; in cooperation with Arqum Gesellschaft für Arbeitssicherheits-, Qualitäts- und Umweltmanagement mbH

Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Scientific Support to Ecolabel - Research into circular economy perspectives in the management of textile products and textile waste in the European Union *(2021)*

Köhler, A.; Baron, Y.; Graulich, K.; Löw, C.; Moch, K. in collaboration with Bauer, B.; Watson, D.; in cooperation with PlanMiljø ApS

Commissioned by: European Commission, Directorate-General Joint Research Centre

A plastic-free world? What would happen if the use of plastics in selected application fields was consistently reduced? *(2019)*

Köhler, A.

Commissioned by: Oeko-Institut e.V.

Revision and further development of the environmental criteria in the clothing and textiles product group *(2018)*

Teufel, J.; Hilbert, I.; Moch, K.

Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Evaluation of sustainability standards in the product groups leather, textiles, detergents and cleaning agents *(2017)*

Moch, K.; Blepp, M.; Teufel, J.; in cooperation with Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Commissioned by: German Federal Ministry for Economic Cooperation and Development (BMZ)

Analysis of Migros' eco standards for textiles *(2014)*

Teufel, J.; Bunke, D.; Hünecke, K.; Stratmann, B.

Commissioned by: World Wide Fund For Nature International (WWF International)

Preparation of a data sheet for the sustainable public procurement of textiles (2013)

Teufel, J.; Stratmann, B.

Commissioned by: Senate Department for Urban Development and the Environment Berlin

Comparison of the European ecolabel for textile products and the German ecolabel ‚Blue Angel‘ for textiles with the bluesign®-Standard (2012)

Teufel, J.; Blepp, M.; Groß, R.; Moch, K.; Quack, D.

Commissioned by: W.L. GORE & Associates GmbH

2.6.2. Household appliances

Life cycle assessment analysis of design variants for automatic washing machines (2021)

Rüdenauer, I.; Gensch, C.; Liu, R.

Commissioned by: Miele & Cie. KG

Empowering stakeholders to deliver highly energy efficient professional cold products (‚ProCold‘) (2018)

Prieß, R.; Blepp, M.; Brommer, E.; Graulich, K.; Jacobs, J.; Moch, K.; Quack, D. in collaboration with Kreitz, T.; et al.; in cooperation with The French Agency for Ecological Transition (ADEME)

Funded by: Executive Agency for Small and Medium-sized Enterprises (EASME)

Technical support for the revision of ecodesign and energy/resource label implementing measures for the product group: Household dishwashers (2016)

Graulich, K.; Rüdenauer, I. in collaboration with Stamminger, R.; Alborzi, F.; in cooperation with University of Bonn

Commissioned by: European Commission, DG Research and Innovation

Technical support for the revision of ecodesign and energy/resource label implementing measures for the product group: Household washing machines / washer-dryers (2016)

Graulich, K.; Rüdenauer, I. in collaboration with Stamminger, R.; Alborzi, F.; in cooperation with University of Bonn

Commissioned by: European Commission, DG Research and Innovation

Influence of the service life of products in terms of their environmental impact: Establishing an information base and developing policies against ‚obsolescence‘ (2016)

Prakash, S.; Antony, F.; Dehoust, G.; Gensch, C.; Graulich, K.; Gsell, M.; Hilbert, I.; Köhler, A.; Schleicher, T. in collaboration with Stamminger, R.; in cooperation with University of Bonn

Commissioned by: German Environment Agency (UBA)

Assessment of the recyclability of a flat screen TV and a fridge-freezer (2016)

Antony, F.

Commissioned by: Vaillant Deutschland GmbH & Co. KG

Savings potential of Miele washing machines with ‚PowerWash 2.0‘ technology as compared to equivalent appliances of competitors using the traditional technology (2016)

Rüdenauer, I.; Gensch, C.

Commissioned by: Miele & Cie. KG

Savings potentials thanks to the automatic TwinDos dosage in washing machines (2013)

Blepp, M.; Gensch, C.

Commissioned by: Miele & Cie. KG

Top 100: PROSA Accumulator-operated devices - Developing the award criteria for a climate label (2013)

Gröger, J.; in cooperation with Institute for Energy and Environmental Research (ifeu)
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Steam irons - Developing the award criteria for a climate label (2013)

Brommer, E.; Gröger, J.; Manhart, A.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Steamers for household use - Developing the award criteria for a climate label (2013)

Brommer, E.; Manhart, A.; Quack, D.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Bread machines - Developing the award criteria for a climate label (2013)

Stratmann, B.; Quack, D.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Electric cookers and stoves for household use - Developing the award criteria for a climate label (2013)

Quack, D.; Bleher, D.; Mottschall, M.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Dishwashers for household use - Developing the award criteria for a climate label (2013)

Gensch, C.; Quack, D.; Stratmann, B.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Vacuum cleaners for household use - Developing the award criteria for a climate label (2013)

Blepp, M.; Quack, D.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Hair care equipment - Developing the award criteria for a climate label (2012)

Manhart, A.; Quack, D.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Drip and pod coffee machines - Developing the award criteria for a climate label (2012)

Stratmann, B.; Quack, D.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Self-service laundry - Developing the award criteria for a climate label (2012)

Blepp, M.; Groß, R.; Quack, D.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Solar-operating products - Developing the award criteria for a climate label

(2012)

Gröger, J.; in cooperation with Institute for Energy and Environmental Research (ifeu)

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Data shredders for office use - Developing the award criteria for a climate label (2012)

Stratmann, B.; Quack, D.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Toasters - Developing the award criteria for a climate label (2011)

Prakash, S.; Gattermann, M.; Quack, D.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Microwave devices for household use - Developing the award criteria for a climate label (2011)

Quack, D.; Mottschall, M.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Electric baking ovens for household use - Developing the award criteria for a climate label (2010)

Quack, D.; Bleher, D.; Mottschall, M.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Cooker hoods for household use - Developing the award criteria for a climate label (2010)

Gröger, J.; Mottschall, M.; Schüler, D.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Sustainable Industrial Policy illustrated by the example of the household appliances industry

(2011)

Grießhammer, R.; Brommer, E.

Commissioned by: German Federal Ministry of Education and Research (BMBF)

Work on preparatory studies for ecodesign requirements of EuP(s). Lot 24 - Professional washing machines, dryers and dishwashers. Part: Dishwashers (2011)

Rüdenauer, I.; Blepp, M.; Brommer, E.; Gensch, C.; Graulich, K.

Commissioned by: European Commission, DG Energy

Work on preparatory studies for ecodesign requirements of EuP(s). Lot 24 - Professional washing machines, dryers and dishwashers. Part: Washing machines and dryers (2011)

Graulich, K.; Blepp, M.; Brommer, E.; Gensch, C.; Rüdener, I.; in cooperation with Büro Ö-quadrat
Commissioned by: European Commission, DG Energy

Savings potentials of washing machines with automatic dosing systems (2010)

Gensch, C.; Liu, R.
Commissioned by: Robert Bosch GmbH

LCA of coffee brewing: A comparative analysis of the potential environmental impacts of different ways of coffee brewing (2010)

Stratmann, B.; Liu, R.; Quack, D.
Commissioned by: Bodum GmbH

Publications relating to sustainable consumption

Steinemann, M.; Ehmman, B.; Fischer, C.; Hanke, G.; Rüdener, I. (2022): Die Rolle freiwilliger Instrumente für den nachhaltigen Konsum. In: Ökologisches Wirtschaften, Bd. 37 Nr. 1, S. 11-13, IÖW und oekom Verlag;
<https://doi.org/10.14512/OEW370111>

Rüdener, I.; Gröger, J. (2022): Reduzierung des Energie- und Ressourcenverbrauchs vernetzter Elektro- und Elektronikgeräte - Mögliche Lösungs- und Regulierungsansätze im Rahmen der Ökodesign-Richtlinie; Kurzexpertise für das Umweltbundesamt; Online verfügbar unter: <https://www.umweltbundesamt.de/publikationen/reduzierung-des-energie-ressourcenverbrauchs>

Graulich, K. (2021): Closing all roads to circumvention of EU Ecodesign and Energy labelling legislation and standards – Final report, ANTICSS Freiburg. Online verfügbar unter https://www.oeko.de/fileadmin/oeko-doc/ANTICSS_FINAL_REPORT.pdf
 Rüdener, I.; Fischer, C. (2021): Marktentwicklung und freiwillige Instrumente zur besseren Marktdurchdringung - Fallstudie für das Umweltbundesamt im Rahmen des Vorhabens „Marktanalyse und Interventionen zur Förderung von grünen Produkten“. Online verfügbar unter: https://www.oeko.de/fileadmin/oekodoc/Fallstudie_Haushaltsgeraete.pdf

Quack, D.; Graulich, K.; Rödig, L.; Schischke, K. (2021): Ökodesign & Energielabel. Umweltbundesamt, Dessau. Online verfügbar unter https://www.umweltbundesamt.de/sites/default/files/medien/376/publikationen/ratgeber_oekodesign_und_energielabel_210225_bf.pdf

Rüdener, I.; Fischer, C. (2021): Marktentwicklung und freiwillige Instrumente zur besseren Marktdurchdringung - Fallstudie für das Umweltbundesamt im Rahmen des Vorhabens „Marktanalyse und Interventionen zur Förderung von grünen Produkten“. Online verfügbar unter: https://www.oeko.de/fileadmin/oekodoc/Fallstudie_Haushaltsgeraete.pdf

Teufel, J.; López, V.; Polanía Giese, J. C.; Knörzer, U. (2021): Sustainable consumption for biodiversity and ecosystem services - Current state and future requirements in information, communication and international cooperation. Öko-Institut e.V.; Adelphi; BfN & BMUV (Hrsg.); https://www.bfn.de/sites/default/files/2021-12/2021-sustainable-consumption-information-communication-cooperation-bfn_0.pdf

Sohns, I.; Meister, M.; Prakash, S.; López Hernández, V.; Itzchel, J.; Ruiz, N.; López Mérida, G.; González Osorio, L.; Calderón Valesco, M. (2021): Implementing circular economy in Mexico: Recommendations for strategies against obsolescence of smartphones & textiles. Öko-Institut e.V.; INECC Online verfügbar unter https://www.oeko.de/fileadmin/oekodoc/2021_INECC_Oeko-Institut_Implementing-circular-economy-in-Mexico.pdf

Graulich, K.; Rüdener, I.; Stamminger, R.; Pakula, C.; Krivosik, J. (2020): Avoiding losses of energy savings caused by possible circumvention of EU Ecodesign and Energy labelling regulation and standards;

- Conference-Proceedings of Electronic Goes Green 2020+, 01.09.2020, Berlin. https://online.electronicsgoes-green.org/wp-content/uploads/2020/10/Proceedings_EGG2020_v2.pdf
- Lopez, V.; Teufel, J.; Gensch, C.-O. (2020): How a Transformation towards Sustainable Community Catering Can Succeed. In: Sustainability 12 (1), S. 101. DOI: 10.3390/su12010101
- Köhler, A.R.; Möller, M. (2020): Ansätze zur Verminderung des Plastikverbrauchs bei Lebensmittelverpackungen – Ergebnisse eines Kreativprozesses; Sammelband „Einfach unverpackt“, oekom Verlag, München.
- Fischer, C.; Stieß, I. (2020): Alternative Konsumformen: Soziale Teilhabe jenseits von Markt und Arbeit; Vortrag: Tätigsein in der Postwachstumsgesellschaft; 2.-4.10.2020, Tutzing.
- Fischer C. (2020): Flächensparend wohnen im Alter. Erfahrungen aus dem Projekt „LebensRäume“; Vortrag: Weiterbildung des Planungsdachverbandes Region Zürich und Umgebung: „Zukunft Einfamilienaus“; 17.09.2020, Zürich:
- Köhler, A. R. (2020): Wie ist eine plastikfreie Welt erreichbar? Ergebnisse eines Spendenprojekts des Öko-Instituts; Vortrag: Kongress #Plastikverhütung, 9.10.2020, Ludwigsburg.
- Fischer, C.; Stieß, I. (2019): Living spaces: Saving energy by encouraging alternative housing options for senior homeowners; In: eceee Summer Study 2019. Proceedings: Summer Study on energy efficiency: Is efficient sufficient?, 3-8 June 2019, Belambra Presqu'île de Giens, France. https://www.eceee.org/library/conference_proceedings/eceee_Summer_Studies/2019/7-make-buildings-policies-great-again/living-spaces-saving-energy-by-encouraging-alternative-housing-options-for-senior-homeowners/
- Fischer, C.; Stieß, I. (2019): Alternative Konsumformen: Soziale Teilhabe jenseits von Markt und Arbeit; In: Tätigsein in der Postwachstumsgesellschaft, 1. Auflage, S. 77-94, Metropolis Verlag, Marburg.
- Fischer, C.; Stieß, I. (2019): Wohnen in der Nachfamilienphase: bedürfnisgerecht und flächensparend; In: Immobilien-Almanach 02: Ausgabe 2019 / 2020, S. 57-77, Grabener Verlag, Kiel:
- Fischer, C. (2019): Grenzen ermöglichen: Suffizienzpolitik für Nachhaltigkeit; In: Damit gutes Leben mit der Natur einfacher wird. Suffizienzpolitik für Naturbewahrung, S. 63-82, Metropolis Verlag, Marburg.
- Fischer, C. (2019): Energieeinsparungen durch Ökodesign und Energielabel: Welche Potenziale gibt es? Wie sieht es in der Praxis aus? Vortrag: Berliner Energietage 2019, 20.-22.05.2019, Berlin.
- Graulich, K.; Hilbert, I.; Seidl, R.; Albert-Seifried, S.; Seifried, D. (2018): New Determinants of Behaviour Change: triggering Energy Savings through Profitability and Self-Sufficiency of Photovoltaic Battery Systems; Conference proceeding of the BEHAVE 2018 - 5th European Conference on Behaviour and Energy Efficiency 5.-7 July 2018, Zurich. <https://www.zhaw.ch/storage/hochschule/ueber-uns/veranstaltungen/behave-2018-proceedings.pdf>
- Rüdenauer, I.; Prieß, R.; Blepp, M. (2018): Refrigerants and Foam-blowing Agents in Household Refrigerating Appliances – Facts and Policy Recommendations. Öko-Institut Working Paper 1/2018; Online verfügbar unter: <https://www.oeko.de/fileadmin/oekodoc/WP-Refrigerants-foam-blowing-agents-household-fridges.pdf>
- Fischer, C.; Stieß, I.; Sunderer, Gr.; Reindl, K. (2018): Small is beautiful? Behavioural challenges for reducing building energy consumption by limiting per capita living space; Conference proceeding of the BEHAVE 2018 - 5th European Conference on Behaviour and Energy Efficiency 5.-7 July 2018, Zurich. <https://www.zhaw.ch/en/about-us/news/events/behave/#c108504>
- Gensch, C.-O.; Prakash, S. & Hilbert, I. (2017). Is Digitalisation a Driver for Sustainability?: In Osburg, T.; Lohrmann, C. (eds.): Sustainability in a Digital World - New Opportunities Through New Technologies: Springer.
- Fischer, C.; Baron, Y.; Blepp, M.; Hesse, T.; Rüdenauer, I.; Stratmann, B. et al. (2017): Living up to expectations? Monitoring the effects of ecodesign and energy labelling in Germany. In: eceee 2017 Summer Study on energy efficiency. Consumption, efficiency and limits. Hyères, France, 29.05.-03.06.2017 (eceee Summer Study proceedings), S. 1621–1632.

Rüdenauer, I.; Seebach D. (2017): Ökologische Bewertung der Beschaffung von ökologischen Gasprodukten (Biomethan, Kompensationsgas, synthetisches Gas) durch öffentliche Auftraggeber. Diskussionspapier im Auftrag der Senatsverwaltung für Umwelt, Verkehr und Klimaschutz des Landes Berlin. Online verfügbar unter: <https://www.oeko.de/fileadmin/oekodoc/Oekologische-Bewertung-Beschaffung-von-oekol-Gasprodukten.pdf>

Stieß, I.; Fischer, C.; Kresse, S. (2017): Power efficiency classes for households – monitoring long-term effects of a power saving intervention. In: eceee 2017 Summer Study on energy efficiency. Consumption, efficiency and limits. Hyères, France, 29.05.-03.06.2017 (eceee Summer Study proceedings), S. 2139–2148.

Möller, M.; Antonopoulos, I.; Baron, Y.; Canfora, P.; Dri, M.; Gaudillat, P. et al. (2016): Best Environmental Management Practice for the Electrical and Electronic Equipment manufacturing sector, in: Proceedings of the Fraunhofer Institute for for Reliability and Microintegration; Proceedings of Electronics Goes Green 2016 – Inventing Shades of Green; Berlin.

Oehme, I.; Sperlich, K.; Kohlmeyer, R.; Prakash, S.; Sander, K.; Clemm, C. (2016): Strengthening material efficiency of electrical and electronic equipment. Conference proceedings of 'Electronics Goes Green 2016 – Inventing Shades of Green'; 06.-09.09.2016; Berlin.

Prakash, S. (2016): Innovative concepts, strategies, instruments, policies and incentives to mainstream eco-friendly products in the market; in: Advancing and Measuring Sustainable Consumption and Production (SCP) for a Low-Carbon Economy in Middle-Income and Newly Industrialised Countries (Advance SCP) in ASEAN; Gesellschaft für internationale Zusammenarbeit (GIZ) (ed.); Proceedings of the Extended Southeast Asian Conference: GPP and Eco Labels as Promoter for Innovation, Qualification and Green Transformation, Chiang Rai, Thailand.

Prakash, S.; Köhler, A. R.; Liu, R.; Stobbe, L.; Proske, M.; Schischke, K. (2016): Paradigm Shift in Green IT – Extending the Life-Times of Computers in the Public Authorities in Germany, in: Proceedings of the Fraunhofer Institute for for Reliability and Microintegration; Proceedings of Electronics Goes Green 2016 – Inventing Shades of Green; Berlin.

Fischer, C. (2015): Absolute energy savings in the household sector – a case for public policy? In: JRC (ed.); Proceedings of the 8th International Energy Efficiency in Domestic Appliances and Lighting Conference – EEDAL'2015, 26.-28. Aug. 2015, Lucerne-Horw, Switzerland.

Prakash, S.; Stamminger, R.; Oehme, I. (2015): Auf Spurensuche in der Wegwerfgesellschaft – Zwischenergebnisse einer Studie zur Lebens- und Nutzungsdauer von Elektro- und Elektronikgeräten. In: *Bulletin SEV/VSE* (4), S. 27–29.

Prakash, S.; Stamminger, R.; Oehme, I. (2015): Faktencheck Obsoleszenz: Analyse der Entwicklung der Lebens- und Nutzungsdauer von ausgewählten Elektro- und Elektronikgeräten. In: T. Brönneke und A. Wechsler (Hg.): Obsoleszenz interdisziplinär – Vorzeitiger Verschleiß aus Sicht von Wissenschaft und Praxis. Baden-Baden: Nomos, S. 83–106.

Quack, D.; Metzger, S.; Fischer, C.; Brommer, E.; Stieß, I. (2015): Efficiency categories for household electricity consumption as a new approach to initiate reduction measures in German households. In: JRC (ed.); Proceedings of the 8th International Energy Efficiency in Domestic Appliances and Lighting Conference – EEDAL'2015, 26.-28. Aug. 2015, Lucerne-Horw, Switzerland.

Geilinger, E.; Schleicher, T.; Gasser, S.; Bush, E. (2014): Office luminaires: voluntary labels can pave the way to the next level in energy saving. In: JRC (ed.); Proceedings of the 7th International Energy Efficiency in Domestic Appliances and Lighting Conference – EEDAL'2013, S. 886 ff.

Graulich, K.; Fischer, C.; Rüdenauer, I.; Quack, D. (2014): Enhancing energy efficiency – Product related incentive schemes for the general public. In: JRC (ed.); Proceedings of the 7th International Energy Efficiency in Domestic Appliances and Lighting Conference – EEDAL'2013, S. 370 ff.

Krivošík, J.; Fisher, C.; Presutto, M. (2014): Come On Labels – Supporting energy labelling of products by monitoring labels in shops, collecting information about tests, supporting surveillance, and promoting to consumers. In: JRC (ed.); Proceedings of the 7th International Energy Efficiency in Domestic Appliances and Lighting Conference – EEDAL'2013, S. 681 ff.

Prakash, S.; Liu, R.; Schischke, K.; Stobbe, L. (2014): Timely replacement of notebooks considering energy consumption and global warming potential. In: JRC (ed.); Proceedings of the 7th International Energy Efficiency in Domestic Appliances and Lighting Conference – EEDAL'2013, S. 776 ff.

Rüdenauer, I.; Griebshammer, R. (2014): Verhaltensökonomisch optimale und praxisgerechte Information im Handel zu Betriebskosten von Haushaltsgeräten. In: *Umweltpsychologie* 18 (1), S. 42–60.

3. Environmental impacts of digitalisation

eco:digit - Enabling green Computing and digital Transformation *(in progress)*

See also: <https://gi.de/aktuelles/projekte/eco-digit>

Gröger, J.; Behrens, F.; Bunke, D.; Gensch, C.; Liu, R.

Funded by: German Aerospace Center - Project Management Agency

Energy- and resource-efficient artificial intelligence – reference models, metrics, measurement methods, criteria, recommendations for action and case studies from logistics

(in progress)

Gröger, J.; Behrens, F.; Gensch, C.; in cooperation with BITO CAMPUS GmbH; Trier University of Applied Sciences

Funded by: Zukunft – Umwelt – Gesellschaft (ZUG) gGmbH

Further development and consolidation of the Blue Angel for energy-efficient data centre operation and climate-friendly co-location data centres as well as the management of advisory services *(in progress)*

Gröger, J.; Behrens, F.; Liu, R.; in cooperation with Data Center Excellence GmbH

Commissioned by: German Environment Agency (UBA)

Establishment of a register for data centres in Germany and development of a rating system for energy-efficient data centres *(in progress)*

Gröger, J.; Behrens, F.; Liu, R. in collaboration with Noll, C.; Bollmann, S.; Weber, M.; Klafit, A.; Pohlschröder, P.; Ostler, U.; Thiel, D.; Schöngen, M.; Radgen, P.; Schuckert, N.; in cooperation with Data Center Group; Deutsche Unternehmensinitiative Energieeffizienz e.V. (DENEFF); German Datacenter Association (GDA); Institute for Energy Economics and the Rational Use of Energy of Stuttgart University (IER); Vogel IT-Medien GmbH/ DataCenter-Insider

Commissioned by: German Environment Agency (UBA)

Regulatory concept for algorithmic decision-making systems under environmental law *(in progress)*

Gailhofer, P.; Gröger, J.; Hermann, A.; Kampffmeyer, N.; in cooperation with Dr. Frederic Theodor Stahl; Independent Institute for Environmental Issues (UfU); Prof. Dr. Lars Nolle; Prof. Dr. Oliver Zielinski; Society for Institutional Analysis (sofia) e.V.

Commissioned by: German Environment Agency (UBA)

Further development of the Blue Angel ecolabel for software - extension of the scope to include server-client applications and applications for mobile devices *(in progress)*

Gröger, J.; Behrens, F.; Liu, R. in collaboration with Naumann, S.; in cooperation with Trier University of Applied Sciences

Commissioned by: German Environment Agency (UBA)

Creation of a calculation tool for the carbon footprint of electronic publications (2023)

Gröger, J.

*Commissioned by: German Newspaper Publishers and Digitalpublishers Association***Energy efficiency parameters of software development components and tools, and preliminary work on establishing a label for energy-efficient software (in progress)**

Gröger, J.; Behrens, F. in collaboration with Schulze, M; Saß, T.; Leufgen, S.; in cooperation with Sustainable Digital Infrastructure Alliance e.V.

*Commissioned by: German Environment Agency (UBA)***Fostering sustainable digitalisation in small and medium enterprises (SME) (2021)**

Scherf, C.; Brunn, C.; Gensch, C.; Köhler, A.; in cooperation with Collaborating Centre on Sustainable Consumption and Production

*Commissioned by: Federal Network Agency for Electricity, Gas, Telecommunications, Post and Railway***Analysis of the software-based influence on a shortened useful life of products (2021)**

Gröger, J.; Behrens, F.; Gsell, M. in collaboration with Jaeger-Erben, M.; Boos, P. ; Druschke, J.; Poppe, E.; Wagner, E.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM); Institut für Sozialinnovation Consulting (ISIconsult UG); Technische Universität Berlin

*Commissioned by: German Environment Agency (UBA)***Greening Cloud Computing and Electronic Communications Services and Networks: Towards Climate Neutrality by 2050 (2021)**

Gröger, J.; Behrens, F.; Gensch, C.; Köhler, A.; Liu, R.; Quack, D.; in cooperation with Visionary Analytics, UAB

*Commissioned by: Directorate-General for Communications Networks, Content and Technology (DG CONNECT)***In-Depth Analysis on “The Role of AI in the European Green Deal” for the Special Committee on Artificial Intelligence in a Digital Age (AIDA) (2021)**

Gailhofer, P.; Braungardt, S.; Herold, A.; Köhler, A.; Mottschall, M.; Schemmel, J.; Scherf, C.; Urrutia, C.

*Commissioned by: European Parliament, Directorate General for Internal Policies***Germany on the way to climate neutrality: What opportunities and risks result from digitisation (2021)**

Gensch, C.; Braungardt, S.; Dolega, P.; Gailhofer, P.; Gröger, J.; Köhler, A.; Sutter, J. in collaboration with Fritzsche, K.; Degel, M.; Bauer, S.; Buettner, L.; in cooperation with Institute for Futures Studies and Technology Assessment (IZT)

*Commissioned by: KfW Group***Data collection on the environmental impact of cloud computing (eco-cloud computing) on the basis of a life-cycle approach (2021)**

Gröger, J.; Liu, R. in collaboration with Stobbe, L.; Druschke, J.; Richter, N.; Sedlak, R.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM); tippingpoints – agency for sustainable communication GmbH

Commissioned by: German Environment Agency (UBA)

Revision of the EU Green Public Procurement (GPP) Criteria for Computers and Monitors (and extension to Smartphones) (2020)

Graulich, K.; Gröger, J.; Köhler, A.; Moch, K.; Quack, D.
Commissioned by: European Commission, DG Research and Innovation

Research and compilation of data for a ‚Digital Ecological Footprint‘ (2020)

Gröger, J.
Commissioned by: BUND e.V.

Smart Home - Energy consumption and savings potential of intelligent devices (2019)

Quack, D.; Gröger, J.; Liu, R.
Commissioned by: Verbraucherzentrale Nordrhein-Westfalen (VZ-NRW)

Creation of a user-oriented information and calculation module ‚Computer at the workplace: Economic efficiency and environmental protection - Guide for administrations‘ and Excel tool: ‚Eco-comparison calculator for workplace computers‘ (2018)

See also: www.umweltbundesamt.de/publikationen/computer-am-arbeitsplatz-wirtschaftlichkeit

Liu, R.; Gröger, J.
Commissioned by: German Environment Agency (UBA)

Implementation of the Sustainable Assessment Framework (SASF) in the global ICT industry (2018)

Prakash, S.; Prieß, R. in collaboration with Winter, M.; Behrendt, C.; in cooperation with Stakeholder Reporting GmbH
Commissioned by: Global Enabling Sustainability Initiative (GeSI)

Preparation of a brief expert report on ‚Energy and resource consumption resulting from digitalisation‘ (2018)

Gröger, J.; Gensch, C.; Köhler, A.; Liu, R.
Commissioned by: German Advisory Council on Global Change (WBGU)

Systematic description of the EMF emissions of electrical equipment and installations (2017)

Küppers, C.; Gröger, J.; Rüdener, I.
Commissioned by: Office of Technology Assessment at the German Bundestag (TAB)

Computers, Internet & Co. – electronic consumer information on the information and communication technologies (2017)

Gröger, J.; Brommer, E. in collaboration with Sedlak, R.; Tunmore, G.; in cooperation with tippingpoints – agency for sustainable communication GmbH
Commissioned by: German Environment Agency (UBA)

Key data and indicators for the assessment of the efficiency of resource use in data centres and for testing the practical feasibility (2017)

Gröger, J.; Köhler, A.; Liu, R. in collaboration with Zarnekow, R.; Schöndwell, B.; in cooperation with Business Engineering Institute St.Gallen (BEI)
Commissioned by: German Environment Agency (UBA)

Development and application of a valuation basis for resource-efficient software, taking into account the existing methodology (2018)

Gröger, J.; Köhler, A. in collaboration with Hilty, R. M.; Maksimov, Y.; Naumann, S.; in cooperation with Trier University of Applied Sciences; University of Zurich (UZH)
Commissioned by: German Environment Agency (UBA)

Green IT savings potentials - Evaluation of green IT measures in terms of their specific energy and resource efficiency potentials (2017)

Köhler, A.; Brommer, E.; Gröger, J.; Moritz, S.

Commissioned by: Ministry for the Environment, Climate and Energy Baden-Württemberg

Green IT inventory Baden-Wuerttemberg - drafting of the inventories of information and communication equipment in institutions of the federal state of Baden-Württemberg and derivation of IT-related energy consumption (2017)

Gröger, J. in collaboration with Wilkens, M.; in cooperation with proRZ Rechenzentrumsbau GmbH

Commissioned by: Ministry for the Environment, Climate and Energy Baden-Württemberg

Resource-efficient infrastructures that are fit for the future: environmentally-friendly, robust and demographically inclusive (2017)

Mottschall, M.; Bauknecht, D.; Bergmann, T.; Gröger, J.; Vogel, M.; Winger, C. in collaboration with Libbe, J.; Trapp, J. H.; Schneider, S.; Verbücheln, M.; Arndt, W.-H.; in cooperation with German Institute of Urban Affairs (Difu)

Commissioned by: German Environment Agency (UBA)

Development of an EMAS Sectoral Reference Document on Best Environmental Management Practice for the Electrical and Electronic Equipment manufacturing sector (2016)

Möller, M.; Baron, Y.; Köhler, A.; Manhart, A.; Moch, K.; Prakash, S.; Prieß, R.

Commissioned by: European Commission, DG Research and Innovation

Ecological and economical aspects in a comparison of desktop computers intended to be used by public authorities, under consideration of the user behaviour (2016)

Prakash, S.; Antony, F.; Graulich, K.; Köhler, A.; Liu, R. in collaboration with Schlösser, A.; Proske, M.; Schischke, K.; Stobbe, L.; Zedel, H.; in cooperation with Technische Universität Berlin

Commissioned by: German Environment Agency (UBA)

Expert advice on the product group IT (2015)

Graulich, K.; Prakash, S.; Teufel, J.; in cooperation with Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Commissioned by: German Federal Ministry for Economic Cooperation and Development (BMZ)

Sustainable software - expert talk and documentation (2015)

Gröger, J.; Brommer, E.; Prakash, S.; Stratmann, B.

Commissioned by: German Environment Agency (UBA)

Estimating the potential of consumer electronics devices in terms of energy and resource efficiency (2014)

Prakash, S.; Gröger, J.; in cooperation with SINUS Markt- und Sozialforschung GmbH; TU Berlin - Institute for Landscape Architecture and Environmental Planning

Commissioned by: German Environment Agency (UBA)

Study on the practical application of the new framework methodology for measuring the environmental impact of ICT - cost/benefit analysis (SMART 2012/0064) (2014)

Prakash, S.; Bunke, D.; Groß, R.; Liu, R.; Manhart, A. in collaboration with Schlösser, A.; in cooperation with TU Berlin - Institute for Landscape Architecture and Environmental Planning

Commissioned by: Directorate-General for Communications Networks, Content and Technology (DG CONNECT)

Top 100: PROSA videoconference systems - Developing the award criteria for a climate label (2013)

Liu, R.; Gröger, J.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Small network attached storage (NAS) - Developing the award criteria for a climate label (2013)

Liu, R.; Gröger, J.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Multiple sockets and socket adapters with automatic switch off - Developing the award criteria for a climate label (2013)

Prakash, S.; Brommer, E.; Grießhammer, R.; Gröger, J.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Uninterruptible power supplies for emergency backup generators - Developing the award criteria for a climate label (2013)

Gröger, J.; in cooperation with Institute for Energy and Environmental Research (ifeu)

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Telephone systems - Developing the award criteria for a climate label (2012)

Gröger, J.; in cooperation with Ökopol – Institute for Environmental Strategies GmbH

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Green data centres - Developing the award criteria for a climate label (2012)

Prakash, S.; Brommer, E.; Gröger, J.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Smartphones - Developing the award criteria for a climate label (2012)

Manhart, A.; Brommer, E.; Gröger, J.

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Rechargeable batteries in standard sizes - Developing the award criteria for a climate label (2012)

Gröger, J.; in cooperation with Institute for Energy and Environmental Research (ifeu)

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Short study: Rechargeable lithium batteries for use in portable devices - Developing the award criteria for a climate label (2011)

Quack, D.; Schüler, D.; in cooperation with Institute for Energy and Environmental Research (ifeu)

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Broadband routers - Developing the award criteria for a climate label (2011)
Gröger, J.; in cooperation with Ökopool – Institute for Environmental Strategies GmbH
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA External hard discs - Developing the award criteria for a climate label (2011)
Liu, R.; Brommer, E.; Gröger, J.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Interactive Whiteboards - Developing the award criteria for a climate label (2011)
Gröger, J.; in cooperation with Ökopool – Institute for Environmental Strategies GmbH
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA eBook Reader - Developing the award criteria for a climate label (2011)
Manhart, A.; Brommer, E.; Gröger, J.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Personal desktop computers - Developing the award criteria for a climate label (2011)
Prakash, S.; Brommer, E.; Gröger, J.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Computer monitors - Developing the award criteria for a climate label (2011)
Prakash, S.; Brommer, E.; Gröger, J.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Nettops - Developing the award criteria for a climate label (2010)
Prakash, S.; Brommer, E.; Gröger, J.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Solar rechargers - Developing the award criteria for a climate label (2010)
Gröger, J.; in cooperation with Institute for Energy and Environmental Research (ifeu)
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Thin clients - Developing the award criteria for a climate label (2010)
Manhart, A.; Brommer, E.; Gröger, J.; Prakash, S.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Compact hi-fi systems - Developing the award criteria for a climate label (2010)
Prakash, S.; Brommer, E.; Gröger, J.
Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Top 100: PROSA Mobile computers - Developing the award criteria for a climate label (2010)

Prakash, S.; Brommer, E.; Gröger, J.; Manhart, A.

*Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)***Top 100: PROSA VoIP phones - Developing the award criteria for a climate label (2010)**

Gröger, J.; Quack, D.; in cooperation with Ökopool – Institute for Environmental Strategies GmbH

*Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)***Towards an overall measurement methodology of the carbon and energy footprints of the ICT sector (2012)**

Prakash, S.; Gensch, C.; Liu, R. in collaboration with Proske, M.; Schischke, K.; Mudgal, S.; Tinetti, B.; Faninger, T.; in cooperation with BIO Intelligence Service; Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

*Commissioned by: Directorate-General for Communications Networks, Content and Technology (DG CONNECT)***Presenting the results of UBA-commissioned ICT-studies to the International Expert Community (2012)**

Prakash, S. in collaboration with Behrend, S.; in cooperation with Institute for Futures Studies and Technology Assessment (IZT)

*Commissioned by: German Environment Agency (UBA)***PCF-evaluation of a speedport router in the rentable Telekom terminal service pack (Telekom leasing model): Comparison of PCF and primary energy input of the speedport router in leasing and purchase models (2011)**

Prakash, S.; Liu, R.; Manhart, A.; Quack, D.

*Commissioned by: Deutsche Telekom AG***Data acquisition in the supply chain of products in the field of information and communication technology (ICT) (2011)**

Prakash, S.; Gensch, C.; Liu, R.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

*Commissioned by: German Environment Agency (UBA)***Establishing a data base for the evaluation of ecological and economic effects of ICT products (2011)**

Prakash, S.; Gensch, C.; Liu, R.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

*Commissioned by: German Environment Agency (UBA)***Timely replacement of a notebook under consideration of environmental aspects - life-cycle analysis using the data basis of the EuP preparatory study, ProBas, and Ecoinvent (2011)**

Prakash, S.; Liu, R.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

*Commissioned by: German Environment Agency (UBA)***Sustainability Assessment of the Products and Services of Deutsche Telekom AG (2011)**

Grießhammer, R.; Brunn, C.; Manhart, A.; Prakash, S.; Schmitt, K.

Commissioned by: Deutsche Telekom AG

Product Carbon Footprint of De-Mail compared with regular mail (2011)

Quack, D.; Brommer, E.

Commissioned by: Deutsche Telekom AG

Publications relating to Environmental impacts of digitalisation

Gröger, J. (2022): Digitaler ökologischer Fußabdruck. In: Technik & Mensch, S. 7-8, VDI Bezirksverein Frankfurt-Darmstadt e.V., Darmstadt. Online verfügbar unter https://www.vdi.de/fileadmin/pages/vdi_de/redakteure/vor_ort/bv/bv-frankfurt-darmstadt/dateien/TuM_2.2022.pdf

Gröger, J. (2022): Den Fußabdruck einzelner IT-Dienste messen - Flocke für Flocke. In: iX, S. 88-91, Heise Medien GmbH & Co. KG, Hannover. Online verfügbar unter <https://www.heise.de/select/ix/2022/13/2132308570536492110>

4. Sustainable Food Systems and Bio-Based Raw Materials

Accompanying scientific research on a climate-neutral federal administration (in progress)

Antony, F.; Braungardt, S.; Cames, M.; Graulich, K.; Keimeyer, F.; Liu, R.; Mottschall, M.; Stuber-Rousselle, K.; Teufel, J.; von Vittorelli, L.; Wagner, T. in collaboration with Seefeldt, F.; Sandhövel, M.; Haberer, L.; Beeg; Spöttle, M.; in cooperation with FutureCamp Holding GmbH; Prof. Dr. Stefan Klinski; Prognos AG

Commissioned by: Federal Ministry for Economic Affairs and Climate Action (BMWK)

Sustainability impacts of alternative approaches for pesticide use. Assessment of multidimensional conflicts of objectives. (in progress)

Bunke, D.; Antony, F.; Möller, M.; Teufel, J.

Funded by: German Federal Environmental Foundation (DBU)

Organic study: Implementation of sustainable catering in the guest and educational houses of the Archdiocese of Freiburg (in progress)

Teufel, J.; Hanke, G. in collaboration with Roehl, R.; in cooperation with a´verdis

Commissioned by: Erzdiözese Freiburg

Internalisation of the external environmental costs of food (in progress)

Teufel, J.; Antony, F.; Förster, H.; Gsell, M.; Hermann, A.; Hünecke, K.; Noka, V.; Nungesser, L.; in cooperation with INFRAS AG

Commissioned by: German Environment Agency (UBA)

Design options for economically viable biodiversity-enhancing milk production systems in the organic model regions of Freiburg and Ravensburg (in progress)

See also: <https://www.feda.bio/de/wissenschaft/projekte/gobiom/>

Quack, D.; Antony, F.; Nungesser, L.; Stuber-Rousselle, K. in collaboration with Pape, T.; Grahl, B.; Schramek, J.; Pabst, H.; Löchtefeld, S.; in cooperation with e-fect dialog evaluation consulting eG; grünweg Projektmanagement & Beratung; Integrahl AS; Johann Wolfgang Goethe-University of Frankfurt, Institute for Rural Development Research (IfLS); Kuratorium für Technik und Bauwesen in der Landwirtschaft e.V. (KTBL); Mediengenossen eG

Funded by: German Federal Ministry of Education and Research (BMBF)

Study on consumption-side approaches to improving the food system's sustainability: framework conditions for voluntary climate labelling of food and target agreements with the retail trade (in progress)

Antony, F.; Gascon Castellero, L.; Gensch, C.; Stuber-Rousselle, K.; Teufel, J.

Commissioned by: INFRAS AG

Examination of the resource efficiency of organic food based on the Product Environmental Footprint and integration into a sustainability strategy *(in progress)*

Antony, F.; Baron, Y.; Liu, R.; Nungesser, L.; Quack, D.; Stuber-Rousselle, K.; Teufel, J. in collaboration with Dylla, R.; Wirz, A.; in cooperation with Association of organic food processors e.V.; Research Institute of Organic Agriculture (FiBL)
Funded by: Federal Office for Agriculture and Food

Comparative Life Cycle Assessment (LCA) study of ‚Simply V‘ products *(2023)*

Antony, F.; Gensch, C.; Liu, R.; Stuber-Rousselle, K.
Commissioned by: E.V.A. GmbH

Detectability and traceability of GMO products *(in progress)*

Teufel, J.; Gascon Castellero, L.; Hilbert, I.; Kampffmeyer, N.; López, V. in collaboration with Greiter, A.; Heissenberger, A.; Eckerstorfer, M.; Narendja, F.; in cooperation with Environment Agency Austria
Commissioned by: Federal Agency for Nature Conservation (BfN)

Sustainable management: socio-ecological transformation of the food system. Shaping the future by involving pioneers of change and economically relevant actors *(in progress)*

See also: <https://stern-projekt.org/>

Hanke, G.; Antony, F.; Brunn, C.; Quack, D.; Scherf, C.; Teufel, J.; Wigand, D.; Wolff, F. in collaboration with Jansky, B.; von Mering, F.; Moewius, J.; Renkamp, T.; Löchtefeld, S.; Wahlmann, M.; Wunder, S.; Jäggle, J.; Meier, J.; in cooperation with Bund Ökologische Lebensmittelwirtschaft (BÖLW); Ecologic Institut gGmbH; e-fect dialog evaluation consulting eG
Commissioned by: German Environment Agency (UBA)

Meta-analysis on 3-nitrooxypropanol (Bovaer) and Asparagopsis (red alga) as methane emissions reducing feed additives in cattle. *(2023)*

Quack, D.; Stuber-Rousselle, K.
Commissioned by: Greenpeace

Ambitious GHG mitigation in the agricultural sector: Analysis of sustainable mitigation potential in selected countries *(2021)*

Siemons, A.; Antony, F.; Böttcher, H.; Fallasch, F.; Förster, H.; Liste, V.; Michalscheck, M.; Moosmann, L.; Scheffler, M.; Schneider, C.; Schneider, L.; Urrutia, C.; Wiegmann, K.; Wissner, N.; in cooperation with NewClimate – Institute for Climate Policy and Global Sustainability gGmbH
Commissioned by: German Environment Agency (UBA)

Identification of stakeholder-related options of action for a transformation of food and agriculture with a view to shaping the common agricultural policy (CAP) after 2020 *(2021)*

Teufel, J.; Böttcher, H.; Quack, D.; Scheffler, M.; Wiegmann, K.; Wolff, F.
Funded by: Stiftung Zukunftserbe

Climate-friendly production in the food industry: scientific assessment of climate-related statements such as ‚climate neutral‘ or ‚climate positive‘ on products *(2021)*

Quack, D.; Antony, F.; Liu, R.; Timpe, C.; in cooperation with 3f design
Commissioned by: Foodwatch e.V.

Design options for economically sustainable biodiversity-enhancing milk production systems in the model organic regions of Freiburg - preliminary study (2021)

Quack, D.; Antony, F.; Teufel, J. in collaboration with Pape, T.; Schramek, J.; Carolus, J.; in cooperation with grünweg Projektmanagement & Beratung; Johann Wolfgang Goethe-University of Frankfurt, Institute for Rural Development Research (IfLS); Prof. Birgit Grahl
Funded by: German Federal Ministry of Education and Research (BMBF)

Visualization of hidden environmental costs of unsustainable agriculture under consideration of different milk production systems (2021)

Teufel, J.; Antony, F.; Liu, R. in collaboration with Hartmann, W.; Schroers, J.-O.; Bieler, C.; Sutter, D.; Spescha, G.; in cooperation with INFRAS AG; Kuratorium für Technik und Bauwesen in der Landwirtschaft e.V. (KTBL)
Commissioned by: German Environment Agency (UBA)

Sustainable utilisation of resources – requirements for a sustainable bio-based economy as part of the implementation of Agenda 2030/SDGs (2020)

Möller, M.; Hennenberg, K.; Hünecke, K.; López, V.; Schleicher, T.; Wolff, F.; in cooperation with Ecologic Institut gGmbH; University Mannheim; University of Sussex Institute of Development Studies (IDS)
Commissioned by: German Environment Agency (UBA)

Bioeconomic power aspects in global value chains – approaches, impacts and perspectives for certification and due diligence schemes for biogenic bulk raw materials (2021)

Schleicher, T.; Hilbert, I.; Manhart, A.; Prakash, S.; in cooperation with Pesticide Action Nexus Association, (PAN-Ethiopia); Réseau pour la Conservation et la Réhabilitation des Ecosystèmes Forestiers (Réseau CREF); University Padjadjaran
Funded by: German Federal Ministry of Education and Research (BMBF)

Systemic monitoring and modelling of the bioeconomy (2020)

Böttcher, H.; Antony, F.; Benndorf, A.; Hennenberg, K.; Hünecke, K.; López, V.; Reise, J.; Scheffler, M.; Wiegmann, K.; Winger, C.; in cooperation with Deutsches Biomasseforschungszentrum (DBFZ); INFRO - Information Systems for Resources; Institute of Economic Structures Research (GWS); Meo Carbon Solutions GmbH; University of Kassel
Funded by: German Federal Ministry of Education and Research (BMBF)

Organic farming in the context of transformation impulses towards a sustainable regional food system (2020)

Teufel, J.; Jacobs, J.; Quack, D. in collaboration with Pregernig, M.; Pauliuk, S.; in cooperation with Albert-Ludwigs-Universität Freiburg
Commissioned by: Ministerium für Wissenschaft, Forschung und Kunst Baden Württemberg

Comparative study on the Life Cycle Assessment (LCA) of Rügenwalder Mühle products (2020)

Antony, F.; Gensch, C.; López, V.; Teufel, J.
Commissioned by: Rügenwalder Mühle Carl Müller GmbH & Co. KG

Orientative life-cycle assessment of an aquaculture facility (2020)

Antony, F.; López, V.
Commissioned by: EXIST-Gründerteam ocean[cube] - Hochschule für Technik und Wirtschaft des Saarlandes (htw saar)

Advisory services for the development of EU GPP criteria for food and catering services (2017)

Teufel, J.

*Commissioned by: European Environmental Bureau (EEB)***Creating an open dialogue on ‚sustainable school catering‘ (2018)**

Teufel, J.; Stratmann, B.

*Commissioned by: City of Freiburg im Breisgau***Screening of existing studies on the topic of PCF/PEF meat or meat substitute products (2017)**

Antony, F.; Gensch, C.

*Commissioned by: Rügenwalder Mühle Carl Müller GmbH & Co. KG***Drawing up of a best practice guide for the project ‚Avoidance of food waste in facilities of the catering and foodservice sector‘ (2016)**

Antony, F.; Gensch, C. in collaboration with Roehl, R.; in cooperation with a´verdis

*Commissioned by: German Environment Agency (UBA)***Synopsis of the general conclusions drawn from the sustainability assessment of research and development projects in the context of the DBU funding initiative ‚Sustainable Aquaculture‘ (2015)**

Möller, M.; Antony, F.

*Commissioned by: German Federal Environmental Foundation (DBU)***Drawing up a best practice guide and an event concept relating to ‚Strategies to successfully introduce organic food in the catering of municipalities (‚More organic food in municipalities‘)‘ (2016)**See also: www.biostaedte.de/mehr-bio-in-kommunen/das-projekt.html

Teufel, J.; Gröger, J.; Hermann, A. in collaboration with Roehl, R.; in cooperation with a´verdis

*Commissioned by: City of Munich***Assessment of the product portfolio of a food retail company in terms of climate impact, and identification of the life cycles with climatic relevance on the basis of existing analyses and studies (2015)**

Teufel, J.

*Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)***Funding initiative on aquaculture: Process-accompanying sustainability assessment on research and development projects under the DBU funding initiative ‚Sustainable Aquaculture‘ (2015)**

Möller, M.; Antony, F.; Marquardt, M.; Moch, K.; Teufel, J.

*Commissioned by: German Federal Environmental Foundation (DBU)***Environmentally sound use of disinfectants, masonry preservatives, and rodenticides (2014)**

Groß, R. in collaboration with Calliera, M.; Burkhardt, M.; Gartiser, S.; in cooperation with Hochschule für Technik Rapperswil (HSR) ; Hydrotox GmbH; OPERA Research Center

*Commissioned by: German Environment Agency (UBA)***Is good food really expensive? The actual costs of our food (2014)**

Teufel, J.

*Commissioned by: Oeko-Institut e.V.***Copper in organic farming: Background, challenges and recommended actions (2014)**

Diesner, M.; Blepp, M.; Bunke, D.; Groß, R.

Commissioned by: Stiftung Zukunftserbe

Product Category Rule (PCR) Development for Green Coffee (2013)

Quack, D.; Liu, R.; Marquardt, M.
Commissioned by: Tchibo GmbH

Comparison of the Product Carbon Footprint (PCF) of Egyptian potatoes with the PCF of stored potatoes organically grown in Germany (2013)

Teufel, J.; Antony, F.; Gensch, C.; Liu, R.
Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)

Product carbon footprints for food products (2013)

Teufel, J.
Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)

Allocation coefficients of nitrogen fertilisers for poly-cultures of coffee production (2013)

Liu, R.; Quack, D.
Commissioned by: Sustainable Agriculture Initiative (SAI) Platform

Advising the Rapunzel Naturkost GmbH on structure and design of the website 'Veggie Guide' on the issue of climate and environmental impacts of nutrition (2013)

Teufel, J.; Stratmann, B.
Commissioned by: Rapunzel Naturkost GmbH

Evaluation of the PCF of table salt and formulation of PCF-related activity options for the Südsalz Corporation (2012)

Quack, D.; Stratmann, B.
Commissioned by: Südsalz GmbH

Comparison of frozen food with other types of presentation in terms of climate (2012)

Gensch, C.; Gattermann, M.; Marquardt, M.; Seum, S.
Commissioned by: Deutsches Tiefkühlinstitut e.V. (DTI)

Product Carbon Footprint of five selected cookie products (2011)

Teufel, J.; Gattermann, M.; Liu, R.
Commissioned by: Griesson - de Beukelaer GmbH & Co. KG

Screening to produce a typology of product groups in the food sector according to their anticipated carbon footprints (2010)

Teufel, J.; Brommer, E.; Gattermann, M.; Stratmann, B.
Commissioned by: Landesamt für Natur, Umwelt und Verbraucherschutz des Landes NRW

Product Carbon Footprint of the Krombacher Pils 20 x 0,5 l returnable bottle crate (2010)

Gensch, C.; Liu, R.; Seum, S.
Commissioned by:

Compilation of relevant sustainability aspects along the value chain of meat and meat products bearing the QS quality label (2010)

Teufel, J.; Gattermann, M.; Hünecke, K.; Manhart, A.; Stratmann, B.
Commissioned by: QS Qualität und Sicherheit GmbH

Carbon Footprint analysis of five selected fish products (2010)

Teufel, J.; Harthan, R.; Havers, K.; Liu, R.; Schmied, M.; Schmitt, K.
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Critical review of the CO₂ inventory analysis by FiBL Austria of milk, bread and potatoes (2010)

Teufel, J.; Liu, R.; Stratmann, B.

Commissioned by: Research Institute of Organic Agriculture (FiBL)

Sustainability analysis of the product portfolio of the German deep-frozen products industry, and identification of strategic options for sustainable development (2010)

Teufel, J.; Gattermann, M.; Gensch, C.; Liu, R.

Commissioned by: Deutsches Tiefkühlinstitut e.V. (DTI)

Publications relating Sustainable Food Systems and Bio-Based Raw Materials:

Hanke, G.; Jägle, J.; Jánsky, B.; Quack, D.; Meier, J.; von Mering, F.; Wolff, F. (2023): Pflanzlich, bio, regional: Drei Strategien für mehr Nachhaltigkeit und strategischen Wandel im Ernährungssystem. In: *Ökologisches Wirtschaften*, 4.2023(38), pp. 40-44. <https://doi.org/10.14512/OEW380440>

Teufel, J. (2022): Milch mit Umweltvorteil – Bessere Umweltbilanz und geringere externe Kosten bei Biomilch; In: *Der kritische Agrarbericht 2022*, S. 143 – 147, ABL Bauernblatt Verlags-GmbH, Hamm.

Steinemann, M.; Ehmann, B.; Fischer, C.; Hanke, G.; Rüdener, I. (2022): Die Rolle freiwilliger Instrumente für den nachhaltigen Konsum. In: *Ökologisches Wirtschaften*, Bd. 37 Nr. 1, S. 11-13, IÖW und oekom Verlag; <https://doi.org/10.14512/OEW370111>

Lopez, V.; Teufel, J.; Gensch, C-O. (2020): How a Transformation towards Sustainable Community Catering Can Succeed. In: *Sustainability* 12 (1), S. 101. DOI: 10.3390/su12010101

Wolff, F., Zoritz, K.; Möller, M. (2020): Wo ein Wille ist, ist auch ein Weg; In: *Bioökonomie - Weltformel oder Brandbeschleuniger?* 1. Auflage, S. 95-102, oekom Verlag, München.

Quack, D. unter Mitarbeit von Gottwald, F-T. (2020): In Maßen, nicht in Massen! Für eine Ernährung mit weniger, dafür umwelt- und tiergerecht(er) produziertem Fleisch; In: *Kritischer Agrarbericht 2020*, S. 349-353, AgrarBündnis, Hamm.

Quack, D. (2020): Ansätze für eine gesellschaftliche Transformation zu mehr Nachhaltigkeit in der Fleischproduktion und im Fleischkonsum; Vortrag: „35. Frische Forum Fleisch“ auf der Grünen Woche 2020 zum Thema „Klima. Wandel. Handeln. – Von herausfordernden Ansprüchen und ambitionierten Zielen“, 17.01.2020, Berlin.

Teufel, J. (2019): Klimaschutz in der Gemeinschaftsgastronomie. In: *Behr's Jahrbuch 2019 Gemeinschaftsgastronomie*, Behr's GmbH, Hamburg, pp. 21-34.

Engel, A.; Roehl, R.; Teufel, J. (2017): Mehr Bio in die Städte! In: *Ökologie & Landbau* (03).

Antony, F.; Möller, M. (2015): Zur Bewertung der Nachhaltigkeit in der Aquakultur: Analysekonzepte, aktueller Stand und künftige Potenziale. In: *Wedekind, H. (ed.) Deutscher Fischereitag 2014. Schriftenreihe des deutschen Fischereiverbandes.*

Teufel, J.; Grießhammer, R. (2011): Anforderungen an die Zivilgesellschaft – Herausforderungen an Landwirtschaft, Lebensmittel und Ernährung. In: *Conference proceedings 'Herausforderungen und Chancen. Agrarwelt im Umbruch'*; 11.-13.01.2011, München, S. 77–87.

Teufel, J. (2010): (Food) miles and more – Aspekte klimafreundlicher Ernährung. In: *Böll Thema – Das Magazin der Heinrich-Böll-Stiftung* 2010 (02), S. 22–23.

Eberle, U.; Fritsche, U. R.; Hayn, D.; Rehaag, R.; Simshäuser, U.; Stieß, I.; Waskow, F. (2005): Nachhaltige Ernährung: Ziele, Problemlagen und Handlungsbedarf im gesellschaftlichen Handlungsfeld Umwelt-Ernährung-Gesundheit; Diskussionspapier Nr. 4 des Forschungsvorhabens Ernährungswende; ISOE/Öko-Institut/KATALYSE/IÖW.

Hayn, D.; Eberle, U.; Rehaag, R.; Simshäuser, U.; Scholl, G. (2005): KonsumentInnenperspektive. Ein integrativer Forschungsansatz für sozial-ökologische Ernährungsforschung; Diskussionspapier Nr. 8 des Forschungsvorhabens Ernährungswende; ISOE/Öko-Institut/KATALYSE/IÖW.

5. Circular economy and global value chains

Steering and steadiness of the stakeholder process and support in the development and implementation of a national circular economy strategy *(in progress)*

See also: <https://dialog-nkws.de/bmu/de/home>

Prakash, S.; Gascon Castellero, L.; Graulich, K.; Hermann, A.; Hinchliffe, D.; Löw, C.; Moch, K.; in cooperation with Institut für Organisationskommunikation GmbH (IFOK); Wuppertal Institut für Klima, Umwelt, Energie gGmbH

Commissioned by: Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV)

Environmentally sound disposal and recycling of e-waste - expert pool for advice on e-waste management in Ghana *(in progress)*

Manhart, A.; Adjei, F.; Hilbert, I.; Schleicher, T.; in cooperation with World Resources Forum (WRF)

Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Technical support to implement the new Batteries Regulation between 2023 and 2025 *(in progress)*

Stahl, H.; Adjei, F.; Behrens, F.; Graulich, K.; Hay, D.; Hinchliffe, D.; Schön-Blume, N. in collaboration with R. Blikkelen; A. Parchomenko; B. Schramm; in cooperation with Ramboll Germany GmbH

Commissioned by: European Commission, DG Environment

Scientific support and monitoring of the National Circular Economy Strategy *(in progress)*

Prakash, S.; Gascon Castellero, L.; Graulich, K.; Hermann, A.; Hilbert, I.; Hinchliffe, D.; Löw, C.; Moch, K.

Commissioned by: German Environment Agency (UBA)

Policy instruments to promote packaging reduction in Malaysia and Thailand

(in progress)

Prakash, S.; Löw, C.; Manhart, A.

Funded by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Circular Economy in Southeast Asia: Promoting climate-friendly and resource-efficient products and services *(in progress)*

Prakash, S.; Adjei, F.; Behrens, F.; Gascon Castellero, L.; Hinchliffe, D.; López, V.; McLennan, A.; Schleicher, T.

Funded by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Transforming production and consumption patterns by strengthening ecolabelling and green public procurement in five Asian countries *(in progress)*

Prakash, S.; Adjei, F.; Gascon Castellero, L.; Hinchliffe, D.; López, V.; McLennan, A.; Schleicher, T.

Funded by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Support to the preparation of a new legislation on the design, production and end-of-life treatment of vehicles (replacing Directive 2000/53/EC on end-of-life vehicles and Directive 2005/64/EC on the type-approval of motor vehicles) *(in progress)*

Graulich, K.; Adjei, F.; Baron, Y.; Kosińska-Terrade, I.; Löw, C.; Moch, K.; Sutter, J. in collaboration with Mehlhart, G.; in cooperation with Georg Mehlhart Consulting; Ramboll Copenhagen

Commissioned by: European Commission, DG Environment

Investigation of economic instruments to reduce packaging consumption and to strengthen plastics recycling and the use of recycled materials *(in progress)*

Betz, J.; Bachmann, H.; Bulach, W.; Dehoust, G.; Gsell, M.; Hermann, A.; Manhart, A.; Prakash, S.; Schleicher, T.; in cooperation with cyclos GmbH; Gesellschaft für Verpackungsmarktforschung mbH; Prof. Dr. Stefan Klinski; RWI - Rheinisch-Westfälisches Institut für Wirtschaftsforschung
Commissioned by: German Environment Agency (UBA)

Quantifying recycling quality in Europe.**Specific study within a Framework Contract to support to the European Environment Agency's activities on circular economy and industrial transformation for emerging waste streams – challenges and opportunities** *(in progress)*

Graulich, K.; in cooperation with Norion Consult
Commissioned by: European Environment Agency

Study supporting the evaluation of Directive 2012/19/EU on waste electrical and electronic equipment (WEEE) *(in progress)*

Kosińska-Terrade, I.; Hay, D.; Mayer, F.; Moch, K.; in cooperation with Environment Agency Austria; Ramboll (Munich); Ramboll Germany GmbH
Commissioned by: Directorate-General for Environment

Circular Economy: Analysis and advice on bio-based materials in the circular economy, chemical recycling, carbon cycles and mass balancing *(in progress)*

Manhart, A.; Köhler, A.; Liu, R.; Löw, C.; Prakash, S.
Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)

Sustainable Recycling Industries - Component Ghana *(in progress)*

See also: www.sustainable-recycling.org

Schleicher, T.; Adjei, F.; Hilbert, I.; Manhart, A.; Michalscheck, M. in collaboration with Atiemo, S.; Arthur, E.; Dorfiah, P.; Kyere, V.; Akomeah, D.; Thiebau, E.; in cooperation with Mountain Research Institute (MRI); SOFIES (Solutions for Industrial Ecosystems) SA
Commissioned by: World Resources Forum (WRF)

Methodological support for Mountain Research Institute (MRI) in setting up an e-waste inventory and socio-economic assessment *(in progress)*

Schleicher, T.; Hilbert, I.; Prakash, S.
Commissioned by: Ghana Environmental Protection Agency (EPA)

Brief Analysis Circular Economy & Business *(2023)*

Köhler, A.; Gascon Castellero, L.; Gensch, C.
Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)

Technical support for KfW in managing the FC project ,Environmentally compatible disposal of electrical scrap in Ghana' *(in progress)*

Manhart, A.; Adjei, F.; Stuber-Rousselle, K.
Commissioned by: KfW Group

Optimising the tracking of transboundary plastic waste streams *(2023)*

Betz, J.; Achilles, L.; Bachmann, H.; Bachmann [Stud.], H.; Bulach, W.; Dehoust, G.; Eckert, D.; Schleicher, T.
Commissioned by: German Environment Agency (UBA)

Analytical Review on Global and Regional Practices for the Reuse and Recycling of Lithium-ion Batteries *(in progress)*

López, V.; Gascon Castellero, L.; Hilbert, I.; Manhart, A. in collaboration with Diego Garcia; Bertrand Nkongdem; Raluca Dumitrescu; in cooperation with MicroEnergy International GmbH
Commissioned by: Inter-American Development Bank

Model Germany - Circular Economy - Modelling ecological and economic impacts of Circular Economy in Germany *(2023)*

Prakash, S.; Antony, F.; Betz, J.; Dehoust, G.; Gascon Castellero, L.; Gensch, C.; Köhler, A.; Liu, R.; López, V.; Löw, C.; Schön-Blume, N.; Stuber-Rousselle, K.; Teufel, J. in collaboration with Jacob, K.; Fiala, V.; Herbst, A.; Loibl, A.; Pfaff, M.; in cooperation with cyclos GmbH; Fraunhofer Institute for Systems and Innovation Research (Fraunhofer ISI); Freie Universität Berlin
Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)

Workshop series and measures catalogue for inclusion of circular economy principles into E-Bus planning and procurement *(2023)*

Manhart, A.; Adjei, F.; Baron, Y.; Hilbert, I.; López, V.; in cooperation with AGENDA for Environment and Responsible Development (AGENDA Tanzania); Angel Eduardo Camacho Lozano; DSS Sustainable Solutions India Pvt. Ltd.
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Scoping the initiative 'Improving lead-acid battery recycling in Sub-Sahara Africa' *(2022)*

Manhart, A.; Hilbert, I.
Commissioned by: World Resources Forum (WRF)

Recycling of mattresses in Germany *(in progress)*

Moch, K.; Löw, C.; Manhart, A.; McLennan, A.
Commissioned by: Nature And Biodiversity Conservation Union (NABU)

Sustainable solutions for reducing plastic packaging in Asia *(2023)*

Prakash, S.; Antony, F.; Bulach, W.; Dehoust, G.; Gascon Castellero, L.; Gröger, J.; Liu, R.; López, V.; Löw, C.; Manhart, A.; McLennan, A.; Michalscheck, M.; Prieß, R.; Schleicher, T.; Stipp, Y.; Stuber-Rousselle, K.
Funded by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Analysis of specific provisions related to selected critical raw materials in the context of the end-of-life vehicle Directive review: analysis of socio-economic impacts of selected provisions and alignment with findings of the Impact Assessment *(2023)*

Baron, Y.
Commissioned by: European Commission Joint Research Centre

Environmentally sound disposal and recycling of e-waste: Capacity Development and operation of the Technical Training Centre at the Old Fadama Scrap Yard *(2022)*

Hilbert, I.; Manhart, A.; Michalscheck, M.; in cooperation with Bernard Kumi-Boateng; David Aladago; Mountain Research Institute (MRI); Seth Adu-Annorson
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Short Research Study on Deep Sea Mining Commodities *(2022)*

Manhart, A.; McLennan, A.
Commissioned by: Greenpeace Germany

Developing Directive/Regulation on Extended Producer Responsibility (EPR) and Take-back Scheme for Used Lead-acid Batteries (ULAB) and Lithium Ion Batteries (LIB) Management in Ethiopia (2022)

Manhart, A.; Hilbert, I.; Michalscheck, M.; Schleicher, T. in collaboration with Amera, T.; Dantie, M.; in cooperation with Pesticide Action Nexus Association, (PAN-Ethiopia)
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Feasibility study for an incentive system to establish a local take-back-repair-repurposing centre for battery storage systems (2022)

Manhart, A.; Hilbert, I. in collaboration with Ugbor, T.; Werthmann, F.; Prantl, M.; Tischendorf, R.; in cooperation with Alliance for Responsible Battery Recycling Nigeria; ECOLOGICON GmbH
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Environmentally sound disposal and recycling of e-waste: Expert pool policy advice (2022)

Manhart, A.; Jacobs, J.; Schleicher, T.; in cooperation with World Resources Forum (WRF)
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Develop technical guidance and an action plan for the management of e-waste generated in refugee camps and procurement guideline for UNHCR through a consultative process (2022)

Schleicher, T.; Hilbert, I.; Manhart, A. in collaboration with Amera, T.; in cooperation with Pesticide Action Nexus Association, (PAN-Ethiopia)
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Assessment of the recyclability of selected input materials for Vaillant Group appliances placed on the market in China (2022)

Antony, F.; Liu, R.; Manhart, A.
Commissioned by: Vaillant Deutschland GmbH & Co. KG

E-waste Compensation and International Financing Mechanisms with Nigeria (in progress)

See also: https://prevent-waste.net/wp-content/uploads/2021/03/PREVENT_PP_Factsheet_Nigeria_2021-03.pdf

Schleicher, T.; Betz, J.; Hilbert, I.; Manhart, A. in collaboration with Adogame, L.; in cooperation with Sustainable Research And Action For Environmental Development Nigeria
Funded by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Support to assessing the impacts of amendments to the proposal of the Commission for a Regulation on Batteries (2022)

Stahl, H.; Baron, Y.; Behrens, F.; Betz, J.; Dolega, P.; Hay, D.; Löw, C.; Magrini, C.; Sutter, J.; in cooperation with Ramboll Germany GmbH
Commissioned by: European Commission, DG Environment

Measures catalogue for end of life (EoL) management in solar energy access projects (2022)

Manhart, A.; Hilbert, I.; Michalscheck, M.; Schleicher, T.
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Model Germany Circular Economy - Feasibility Study (2022)

Prakash, S.; Antony, F.; Betz, J.; Dehoust, G.; Gensch, C.; Löw, C.; Stuber-Rousselle, K.; Teufel, J. in collaboration with Jacob, K.; Herbst, A.; Pfaff, M.; Loibl, A.; in cooperation with Fraunhofer Institute for Systems and Innovation Research (Fraunhofer ISI); Freie Universität Berlin
Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)

Study to support the impact assessment for the review of Directive 2000/53/EC on end-of-life vehicles (2022)

Baron, Y.; Kosińska-Terrade, I.; López, V.; Löw, C.; Moch, K.; Sutter, J. in collaboration with Mehlhart, G.; in cooperation with Georg Mehlhart Consulting; Ramboll Copenhagen
Commissioned by: European Commission, DG Environment

Circular City Berlin - steps from potential towards implementation (2021)

Gröger, J.; Behrens, F.; Liu, R. in collaboration with Korbun, T.; in cooperation with Institute for Ecological Economy Research (IÖW)
Funded by: Senate Department for the Environment, Transport and Climate Protection Berlin

Marine litter and microplastics: Promoting the environmentally sound management of plastic wastes and achieving the prevention and minimisation of the generation of plastic wastes

(2021)

Manhart, A.; Dehoust, G.; Prakash, S.; Schleicher, T. in collaboration with Atiemo, S.; in cooperation with Mountain Research Institute (MRI)
Funded by: Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal

Challenges in the collection and disposal of WEEE with atypical design and materials (,atypical' WEEE) (2021)

Köhler, A.; Baron, Y.; Beilke, N.; Gsell, M.; Hermann, A.; Löw, C.; Moch, K. in collaboration with Verbücheln, M.; in cooperation with German Institute of Urban Affairs (Difu)
Commissioned by: German Environment Agency (UBA)

Developing recommendations for technical standards and a licensing scheme for the management of lead-acid batteries in Ethiopia (2021)

Manhart, A.; Hilbert, I.; Michalscheck, M. in collaboration with Amera, T.; in cooperation with Dr. Mellese Damtie Dandi; Pesticide Action Nexus Association, (PAN-Ethiopia)
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Voluntary certification scheme for waste treatment (CEWASTE) (2021)See also: www.cewaste.eu

Baron, Y.; Hilbert, I.; López, V.; Manhart, A. in collaboration with Schlupe, M.; in cooperation with World Resources Forum (WRF)
Funded by: Executive Agency for Small and Medium-sized Enterprises (EASME)

Scientific Support to Ecolabel - Research into circular economy perspectives in the management of textile products and textile waste in the European Union (2021)

Köhler, A.; Baron, Y.; Graulich, K.; Löw, C.; Moch, K. in collaboration with Bauer, B.; Watson, D.; in cooperation with PlanMiljø ApS
Commissioned by: European Commission, Directorate-General Joint Research Centre

Research & stakeholder engagement for improved management of used batteries in Africa (2021)

Manhart, A.; Betz, J.; in cooperation with Vivid Economics Ltd
Commissioned by: World Economic Forum (WEF)

Using emerging data streams for monitoring the uptake of Circular Economy in Europe (2021)

Graulich, K. in collaboration with Bauer, B.; McKinnon, D.; Svendsen, N.; Watson, D.; Borgmann, E.; Bilsen, V.; Bley, F.; in cooperation with IDEA Consult; PlanMiljø ApS
Commissioned by: European Environment Agency (EEA)

Impact of COVID-19 on single-use plastics and the environment in Europe (2021)

Graulich, K.; Köhler, A.; Löw, C.; Sutter, J. in collaboration with Watson, D.; Egebæk, K.; Bilsen, V.; Bley, F.; in cooperation with Georg Mehlhart Consulting; IDEA Consult; PlanMiljø ApS
Commissioned by: European Environment Agency (EEA)

Emerging waste streams – Challenges and opportunities.**Specific study within a Framework Contract to support to the European Environment Agency's activities on circular economy and industrial transformation for emerging waste streams (2021)**

Graulich, K.; Betz, J.; Bulach, W.; Hermann, C.; Manhart, A. in collaboration with Bilsen, V.; Bley, F.; Watkins, E.; in cooperation with IDEA Consult; Institute for European Environmental Policy
Commissioned by: European Environment Agency (EEA)

Implementation of innovative incentive mechanisms for the promotion of climate-friendly products and services in ASEAN (2021)

See also: <https://www.giz.de/en/worldwide/43629.html>

Prakash, S.; Graulich, K.; Hilbert, I.; Manhart, A.; Prieß, R.; Schleicher, T.
Funded by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Assessment of options to improve particular aspects of the EU regulatory framework on batteries (2020)

Stahl, H.; Baron, Y.; Buchert, M.; Dolega, P.; Gsell, M.; Hay, D.; Heutmanek, U.; Mehlhart, G.; Sutter, J.; in cooperation with Dr. Christoph Neef; Ramboll Copenhagen
Commissioned by: European Commission, DG Environment

Assessment of the recyclability of other selected input materials (2020)

Antony, F.; Manhart, A.
Commissioned by: Vaillant Deutschland GmbH & Co. KG

Concepts for sustainable solid waste management (2020)

Manhart, A.; Prakash, S. in collaboration with Magalini, F.; Deubzer, O.; Kühr, R., Smith, E.; Schlupe, M.; in cooperation with Heat GmbH; Pesticide Action Nexus Association, (PAN-Ethiopia); Sofies SA; United Nations University (UNU); World Resources Forum (WRF)
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Supporting the Pre-Feasibility for the project ,Climate Adaption in urban areas in Bangladesh, Phase III - Component Sirajganj' (2019)

Manhart, A.; Prakash, S.
Commissioned by: KfW Group

Options under public international law to increase resource efficiency: Analysis and evaluation of the international legal framework regarding its impact on the consumption of raw materials and development of options for action (2019)

Wolff, F.; Kampffmeyer, N.; Manhart, A.; Scherf, C. in collaboration with Sanden, J.; Sina, S.; Bodle, R.; in cooperation with Ecologic Institut gGmbH; Leuphana University of Lüneburg
Commissioned by: German Environment Agency (UBA)

Further action options for an ecological raw materials policy (ÖkoRessII) (2020)

Dehoust, G.; Dolega, P.; Manhart, A. in collaboration with Rechlin, A.; Priester, M.; Ackern von, P.; Rüttinger, L.; Vogt, R.; Auberger, A.; Kämper, C.; in cooperation with adelphi consult GmbH; Institute for Energy and Environmental Research (ifeu); Projekt-Consult GmbH
Commissioned by: German Environment Agency (UBA)

Pre-feasibility study on policy, waste management and recycling strategy for Solar Home System business in Northern Nigeria (2019)

Manhart, A. in collaboration with Magalini, F.; in cooperation with Sofies SA
Commissioned by: PAS Solar (PAS BBOXX Ltd)

International Governance for Environmentally Sound Supply of Raw Materials – Policy Options and Recommendations (2019)

Hermann, A.; Gailhofer, P.; Manhart, A.; Schleicher, T.; Schüler, D. in collaboration with Bodle, R.; Donat, L.; Gerstetter, C.; Hinzmann, M.; Roberts, E.; Hirschnitz-Garbers, M.; Langsdorf, S.; in cooperation with Ecologic Institut gGmbH; Projekt-Consult GmbH
Commissioned by: German Environment Agency (UBA)

E-waste Ghana Lot 3: Enhancing capacities of informal sector stakeholders & payment system for e-waste (2020)

Manhart, A.; Prakash, S.; Schleicher, T. in collaboration with Sinah, D.; in cooperation with Sofies SA
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Indo-German Financial Cooperation - Scoping Assignment Solid Waste Management (2019)

Manhart, A.; Prakash, S. in collaboration with Raghavan, S.; Rodrigues, W.; Gasser, M.; in cooperation with Empa Materials Science and Technology; Saahas zero waste; Wolfgang Pfaff-Simoneit
Commissioned by: KfW Group

Strategic Dialogue on Sustainable Raw Materials for Europe (STRADE) (2018)

Manhart, A.
Funded by: Executive Agency for Small and Medium-sized Enterprises (EASME)

Technical and conceptual support of the E-Waste programme in Accra/Ghana in the development of a brief assessment (2018)

Manhart, A.
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Promoting Sustainable Consumption and Production (SCP) for a Low-Carbon Economy in ASEAN (2018)

Prakash, S.; Antony, F.; Rüdener, I.; Schleicher, T.
Funded by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Short term technical expert assignment in the field of off-grid rural electrification via solar home systems (SHS) with the specific focus on recycling of batteries used in SHS (2018)

Manhart, A.; Hilbert, I. in collaboration with Latt, K.; in cooperation with Total Business Solutions Co. Ltd.
Commissioned by: KfW Group

Implementation of the Sustainable Recycling Industries (SRI) Program in Ghana and Egypt (2018)

Manhart, A.; Buchert, M.; Schleicher, T. in collaboration with Rochat, D.; in cooperation with SOFIES (Solutions for Industrial Ecosystems) SA
Commissioned by: World Resources Forum (WRF)

Assessment of the ecological limits of primary raw material production and development of a method for assessing the environmental availability of raw materials in order to further develop the criticality concept (2017)

Dehoust, G.; Buchert, M.; Kießling, L.; Manhart, A.; Möck, A. in collaboration with Priester, M.; Rechlin, A.; Dolega, P.; Vogt, R.; Kämper, C.; Giegrich, J.; Auberger, A.; in cooperation with Institute for Energy and Environmental Research (ifeu); Projekt-Consult GmbH
Commissioned by: German Environment Agency (UBA)

Ghanaian-German Financial Cooperation (FC): Sound disposal and recycling of electrical and electronic equipment - Feasibility Study for the preparation of a new FC project (2017)

Manhart, A.; Prakash, S. in collaboration with Appiah, D.; in cooperation with Sustainable Ghana Ltd.
Commissioned by: KfW Group

Development of policy recommendations for the further development and refinement of strategic approaches for sustainable and efficient raw material extraction and use (RohPolRess) (2017)

Hermann, A.; Buchert, M.; Manhart, A.; Schleicher, T.; Schüler, D.; Schulze, F. in collaboration with Gandenberger, C.; Rüttinger, L.; in cooperation with adelphi research gGmbH; Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
Commissioned by: German Environment Agency (UBA)

Assessment of the recyclability of a flat screen TV and a fridge-freezer (2016)

Antony, F.
Commissioned by: Vaillant Deutschland GmbH & Co. KG

Research on resource efficiency in the ICT sector (2016)

Manhart, A.; Blepp, M.; Fischer, C.; Graulich, K.; Prakash, S.; Schleicher, T.
Commissioned by: Greenpeace

The Lead Recycling Africa Project - Standards for lead smelters: Towards a strong environmental movement in Africa (2016)

Manhart, A.; Degreif, S.; Schleicher, T. in collaboration with Amera, T.; Kuepouo, G.; Mng'anya, S.; in cooperation with Pesticide Action Nexus Association, (PAN-Ethiopia)
Commissioned by: Oeko-Institut e.V.

Pre-Feasibility study on the possible commitment of the German Development Cooperation (EZ) in the sector of waste management in Ghana (2015)

Manhart, A.; Mehlhart, G. in collaboration with Appiah, D.; in cooperation with Sustainable Ghana Ltd.
Commissioned by: KfW Group

Global circular economy of strategic metals (Bo2W) (2016)

See also: <https://www.oeko.de/oekodoc/2531/2016-058-de.pdf>

Buchert, M.; Degreif, S.; Manhart, A.; Mehlhart, G.; Merz, C.; Schleicher, T.; in cooperation with Centre for Environment and Development for the Arab Region and Europe (CEDARE); City Waste Management Co Ltd; Umicore
Commissioned by: German Federal Ministry of Education and Research (BMBF)

Sustainable Consumption and Production for Low Carbon Economy - Low Emission Public Procurement and Eco-Labeling (SCP4LCE) - Advisory Services on Eco-Labeling in Thailand and the ASEAN-region (2015)

Prakash, S.; Schleicher, T.

Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Evaluation of the limits for metals in waste which in the event of being exceeded recovery including metal recovery in backfills or landfills must take place (2015)

Dehoust, G.; Blepp, M.; Jenseit, W.; Küppers, P. in collaboration with Goldmann, D.; Breitenstein, B.; in cooperation with Clausthal University of Technology, Institute of Mineral and Waste Processing, Waste Disposal and Geomechanics (IFAD)

Commissioned by: German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

An efficient & effective e-waste collection system for Ethiopia – Consultancy Service for UNIDO within the E-Waste Management Project in Ethiopia (EWAMP) (2015)

Manhart, A.; Schleicher, T. in collaboration with Amara, T.; Belay, A.; Genet, Z.; in cooperation with Pesticide Action Nexus Association, (PAN-Ethiopia)

Commissioned by: United Nations Industrial Development Organization (UNIDO)

Regulatory approaches to increase the resource efficiency in the IT sector (2014)

Manhart, A.; Fischer, C.; Graulich, K.; Schleicher, T.

Commissioned by: Germanwatch e.V.

Workshop on actions to avoid the input of (plastic) wastes from ashore into the marine environment (2013)

Blepp, M.; in cooperation with Team Ewen

Commissioned by: BKV GmbH

Rare earths analysis: Permanent magnets in industrial applications in Baden-Wuerttemberg (2013)

Buchert, M.; Manhart, A.; Sutter, J.

Commissioned by: Ministry for the Environment, Climate and Energy Baden-Württemberg

Conflict minerals - Study on the Dodd-Frank Act and further possible resource-related measures (2013)

Manhart, A.; Schleicher, T.

Commissioned by: The Voice of German Industry (BDI)

E-waste country study Ethiopia (2013)

Manhart, A.; in cooperation with Pesticide Action Nexus Association, (PAN-Ethiopia)

Commissioned by: United Nations University (UNU)

Study on land-sourced litter (LSL) in the context of the initiative on marine litter established by Plastics Europe and European Plastics Converters (EUPC) (2012)

Blepp, M.; Mehlhart, G.; Möller, M.

Commissioned by: BKV GmbH

Identification of the use of critical resources in the manufacture of selected electronic units and development of proposals for the recovery of these resources from end-of-life equipment (2012)

Buchert, M.; Bleher, D.; Manhart, A.; Pingel, D.

Commissioned by: Landesamt für Natur, Umwelt und Verbraucherschutz des Landes NRW

Initial e-waste country study Ethiopia (2011)

Manhart, A.; Stratmann, B.

*Commissioned by: United Nations University (UNU)***Informal e-waste management in Lagos, Nigeria - socio-economic impacts and feasibility of international recycling co-operations (2011)**

Manhart, A.; Prakash, S.

*Commissioned by: Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal***Study on Rare Earths and Their Recycling (2011)**

Schüler, D.; Buchert, M.; Degreif, S.; Liu, R.; Merz, C.

*Commissioned by: Greens/EFA Group- European Parliament***Socio-economic assessment and feasibility study on sustainable e-waste management in Ghana (2010)**

Prakash, S.; Manhart, A.; in cooperation with Ghana Environmental Protection Agency (EPA); Green Advocacy Ghana

*Commissioned by: Ministry of Housing, Spatial Planning and the Environment, VROM-Inspectorate***Publications relating to Circular economy and global value chains**

Löw, C.; Prakash, S. (2023): Warum es ein Ressourcenschutzgesetz braucht. Blogbeitrag in Makronom. Online unter) <https://makronom.de/warum-es-ein-ressourcenschutzgesetz-braucht-45273>

Löw, C.; Prakash, S. (2023): Wir brauchen ein Ressourcenschutzgesetz! In: in Neue Energie – Das Magazin für Klimaschutz und erneuerbare Energien, Ausgabe 9, 2023.

Adjei, F.; Hilbert, I.; López Hernández, V.; Manhart, A. et al. (2023): Improving the circularity of e-bus batteries – Regulatory framework and en of iofe management for Li-Ion batteries in Colombia, India and Tanzania; In: Internationales Verkehrswesen, H. 3, S. 20-23, 2023.

Prakash, S.; Schleicher, T.; Michalscheck (2021): Barrier Analysis and Strategies for Ecolabels and Sustainable Public Procurement Implementation - Commonly encountered barriers and strategies for successful implementation; Prepared for the project 'Implementation of innovative incentive mechanisms for the promotion of climate-friendly products and services in ASEAN', funded by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH", Oeko-Institut, Freiburg

Prakash, S.; López Hernández, V. et al. (2021): Implementing circular economy in Mexico: Recommendations for strategies against obsolescence of smartphones & textiles; Prepared for the project 'Implementation of innovative incentive mechanisms for the promotion of climate-friendly products and services in ASEAN', funded by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Oeko-Institut, Freiburg

Löw, C.; Prakash, S.; Stuber-Rousselle, K. (2021): Why are biobased and biodegradable plastic not part of the solution to reduce plastic waste? Checking the facts! Prepared for the project 'Sustainable solutions for reducing plastic packaging in Asia, funded by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH', Oeko-Institut, Freiburg

Stuber-Rousselle, K.; Prakash, S.; Löw, C. (2021): Material choices for environment-friendly packaging design -Analysis of existing Life Cycle Assessment (LCA) studies; Prepared for the project 'Sustainable solutions for reducing plastic packaging in Asia', funded by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Oeko-Institut, Freiburg

Löw, C.; Manhart, A.; Prakash, S.; Michalscheck, M.; (2021): Design-for-recycling (D4R) – State of play, Prepared for the project 'Sustainable solutions for reducing plastic packaging in Asia', funded by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Oeko-Institut, Freiburg

Löw, C.; Manhart, A.; Prakash, S.; (2021): Recycled content in plastic material with focus on PET, HDPE, LDPE, PP – State of play, Prepared for the project 'Sustainable solutions for reducing plastic packaging in Asia', funded by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Oeko-Institut, Freiburg

Löw, C.; Michalscheck, M.; Prakash, S. (2021): Designing upstream Single-use plastic prevention policies - Packaging classification, design for recycling and recycled content targets. Knowledge sharing event for the project 'Collaborative Action for Single-Use Plastic Prevention in Southeast Asia (CAP-SEA)', supported by the Export Initiative for Environment Technologies of the Federal Ministry of Environment, Nature Conservation and Nuclear Safety (BMU), Bangkok

Köhler, A.R.; Möller, M. (2020): Ansätze zur Verminderung des Plastikverbrauchs bei Lebensmittelverpackungen – Ergebnisse eines Kreativprozesses; Sammelband „Einfach unverpackt“, oekom Verlag, München.

Köhler, A. R. (2020): Wie ist eine plastikfreie Welt erreichbar? Ergebnisse eines Spendenprojekts des Öko-Instituts; Vortrag: Kongress Plastikverhütung, 9.10.2020, Ludwigsburg.

Baron, Y; Lopez, V.; Hilbert, I. et al. (2020): The CEWASTE Assurance and Verification System for the Certification of Waste Management Operators with CRM Focused Requirements; Conference-Proceedings of Electronic Goes Green 2020+, 01.09.2020, Berlin. https://online.electronicsgoesgreen.org/wp-content/uploads/2020/10/Proceedings_EGG2020_v2.pdf

Baron, Y.; Buchert, M.; Hilbert, I.; et al. (2020): Products, Technologies, and Normative Requirements for Recycling of Valuable and Critical Raw Materials; Conference-Proceedings of Electronic Goes Green 2020+, 01.09.2020, Berlin. https://online.electronicsgoesgreen.org/wp-content/uploads/2020/10/Proceedings_EGG-2020_v2.pdf

Baron, Y.; Buchert, M.; Hilbert, I. et al. (2020): Sound Recycling and Transboundary Movements of WEEE Containing Critical Raw Materials – CEWASTE Requirements; Conference-Proceedings of Electronic Goes Green 2020+, 01.09.2020, Berlin. https://online.electronicsgoesgreen.org/wp-content/uploads/2020/10/Proceedings_EGG2020_v2.pdf

Manhart, A.; Akuffo, B.; Atiemo, S.; Attafuaah-Wadee, K.; Jacobs, J.; Batteiger, A. (2019): Incentive based collection of e-waste – Results from pilot implementation in Ghana; Vortrag: World Resources Forum 2020, 23.-24.10.2019, Genf.

Manhart, A.; Hilbert, I.; Magalini, F. (2018): End-of-Life Management of Batteries in the Off-Grid Solar Sector; Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH. <https://www.oeko.de/publikationen/p-details/end-of-life-management-of-batteries-in-the-off-grid-solar-sector/>

Prakash, S.; Manhart, A.; Appiah, D. (2016): Environment and Social Impact Assessment (ESIA) for the preparation of a Ghanaian-German Financial Cooperation on Sound Disposal and Recycling of Waste of Electrical and Electronic Equipment; Im Auftrag der Kreditanstalt für Wiederaufbau (KfW).

Buchert, M.; Bulach, W.; Degreif, S.; Prakash, S.; Behrendt, S. (2016): Substitution as a Strategy for Reducing the Criticality of Raw Materials for Environmental Technologies, in: Proceedings of 'Electronics Goes Green 2016 – Inventing Shades of Green'; Berlin.

Buchert, M.; Manhart, A. (2016): Recycling global – Best-of-two-Worlds Projekt und Recycling von Blei-Säure-Batterien in Afrika. In: Recycling und Rohstoffe (9); Conference proceedings of the 'Berliner Recycling- und Rohstoffkonferenz'; 07.-08.03.2016; Berlin, S. 123-139.

Finck, Z. von; Manhart, A. (2016): Das Geschäft mit dem Schrott. In: *Internationale Politik* (6), S. 108–115. <https://zeitschrift-ip.dgap.org/de/ip-die-zeitschrift/archiv/jahrgang-2016/november-dezember/das-geschaef-mit-dem-schrott>.

Pavel, C. C.; Marmier, A.; Tzimas, E.; Schleicher, T.; Schüler, D., Buchert, M.; Blagoeva, D. (2016): Critical raw materials in lighting applications. Substitution opportunities and implication on their demand. In: *Phys. Status Solidi (a)* (11), S. 2937–2946. <http://onlinelibrary.wiley.com/doi/10.1002/pssa.201600594/full>.

6. Sustainable chemistry

6.1. Cross-cutting issues

Living Sustainably. Transformation in the chemicals sector through conceptual approaches and life cycle assessment of chemicals *(in progress)*

Bunke, D.; Löw, C. in collaboration with Reihlen, A.; Wirth, O.; in cooperation with Frank Hintsch IT Consulting; Ökopool – Institute for Environmental Strategies GmbH
Funded by: German Environment Agency (UBA)

Substance requirements in the award criteria of the Blue Angel ecolabel - development of a guideline *(in progress)*

Bunke, D.; Moch, K. in collaboration with Oltmanns, J.; Macherey, M.; in cooperation with Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG)
Commissioned by: German Environment Agency (UBA)

Study on streamlining chemicals data flows, increasing data interoperability, dissemination, re-use and the use of all available data, and on the establishment of a data generation mechanism for the purpose of safety assessments in the context of the European chemicals regulatory framework *(in progress)*

Moch, K.; Gailhofer, P.; Gascon Castellero, L.; Gensch, C.; Löw, C.; Magrini, C.; McLennan, A.; von Vittorelli, L. in collaboration with Polcher, A.; Nguyen, N.; Pierre, G.; Theunis, J.; in cooperation with Ecorys; Ramboll Copenhagen; VITO - Flemish Institute for Technological Research NV
Commissioned by: European Commission, DG Environment

Consultation and support for the Partnership for Sustainable Textiles in the implementation of corporate due diligence, in particular the further development of the environmental strategy *(2022)*

Kampffmeyer, N.; Gascon Castellero, L.; López, V.; Löw, C.; Moch, K.; Scherf, C.; Stuber-Rousselle, K.; Teufel, J.; in cooperation with Arqum Gesellschaft für Arbeitssicherheits-, Qualitäts- und Umweltmanagement mbH
Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

System innovation for sustainable development - transfer as a regional learning process *(2022)*

See also: <https://sne.h-da.de/>

Brohmann, B.; Bunke, D.; Mbah, M.; in cooperation with Hochschule Darmstadt, University of Applied Sciences; Institute for Social-Ecological Research Ltd. (ISOE); Schader-Stiftung
Funded by: German Federal Ministry of Education and Research (BMBF)

Support contract for an Evaluation and Impact Assessment for amending Regulation (EU) No 517/2014 on fluorinated greenhouse gases *(2022)*

Jörß, W.; Baron, Y.; Hünecke, K.; Liste, V.; Ludig, S.; Schumacher, K.; Wissner, N.; in cooperation with Öko-Recherche; Ricardo Energy & Environment (Ricardo-AEA)
Commissioned by: European Commission, DG Climate Action

Yesterday PCBs - today PFCs and brominated flame retardants - and tomorrow? *(2021)*

Bunke, D.; Löw, C.; Moch, K. in collaboration with Weber, R.; Scheringer, M.; in cooperation with ETH Zurich University (ETH Zürich); P.O.P. Consultance
Commissioned by: German Environment Agency (UBA)

Pharmacies as central places for the (environmentally) conscious handling of drugs (2019)

Moch, K.; Blepp, M.; Moritz, S.; Seidl, R. in collaboration with Winkler, M.; Götz, K.; et al.; in cooperation with Institute for Social-Ecological Research Ltd. (ISOE)

Commissioned by: German Environment Agency (UBA)

Environmental Specimen Bank Workshop – Terrestrial transmission 2018 (2019)

Bunke, D.; Moch, K.

Commissioned by: German Environment Agency (UBA)

Practical, environment-related information on water-relevant active pharmaceutical ingredients (2019)

Bunke, D.; Moch, K.

Commissioned by: Ministry for the Environment, Climate and Energy Baden-Württemberg

Sustainable Chemistry as part of the International Chemicals Management - Analysis and concept development for initiatives, instruments, financing and networking (2018)

Bunke, D.; Blepp, M. in collaboration with Joas, R.; in cooperation with Consultancy for integrated solutions (BiPRO)

Commissioned by: German Environment Agency (UBA)

Solutions for present and future emerging pollutants in land and water resources management (2019)

Bunke, D.; Moch, K.; Moritz, S. in collaboration with Brack, W.; et al.; in cooperation with Helmholtz-Centre for Environmental Research GmbH

Commissioned by: European Commission, DG Environment

Identifying interesting companies for ChemSec's Marketplace website (2018)

Blepp, M.; Baron, Y.; Moch, K.

Commissioned by: International Chemical Secretariat (chemsec)

Sustainable management of chemicals: further development of sustainability criteria for chemical leasing and application in case studies (2018)

Bunke, D.; Blepp, M. in collaboration with Joas, R.; Joas, A.; Abraham, V.; in cooperation with Consultancy for integrated solutions (BiPRO)

Commissioned by: German Environment Agency (UBA)

Contribution to the Green Economy by sustainability of companies in the chemical industry: Selection of substances or processes on the basis of the criteria for a sustainable chemistry developed by the German Federal Environment Agency (UBA) (2016)

See also: www.umweltbundesamt.de/publikationen/leitfaden-nachhaltige-chemikalien

Bunke, D. in collaboration with Jepsen, D.; Reihlen, A.; in cooperation with Ökopol – Institute for Environmental Strategies GmbH

Commissioned by: German Environment Agency (UBA)

Contributions to the sustainability strategy: reducing the use of resources in the chemicals industry by applying instruments of sustainable chemistry (2016)

Bunke, D.; Blepp, M. in collaboration with Joas, R.; Joas, A.; Abraham, V.; in cooperation with Consultancy for integrated solutions (BiPRO)

Commissioned by: German Environment Agency (UBA)

Scientific and educational activities of German research facilities relating to sustainable chemistry (2015)

Blepp, M.; Moritz, S. in collaboration with Abraham, V.; Joas, A.; in cooperation with Consultancy for integrated solutions (BiPRO)

Commissioned by: German Environment Agency (UBA)

Smart protection goals for priority hazardous substances (EG/2008/105) (2015)

Bunke, D.; Groß, R. in collaboration with Führ, M.; Kleihauer, S.; Schenten, J.; in cooperation with Society for Institutional Analysis (sofia) e.V.

Commissioned by: German Environment Agency (UBA)

Examining the coherence of environmental policy objectives and instruments for the purpose of environmental reporting (2015)

Wolff, F.; Alt, S.; Bunke, D.; Degreif, S.; Graichen, V.; Hennenberg, K.; Heyen, D.; Hünecke, K.; Kasten, P.; Küppers, P.; Mehlhart, G.; Schleicher, T.; Schütte, S.; Spieth-Achtnich, A.; Wiegmann, K.; Zimmer, W. in collaboration with Stauffer, A.; Jacob, K.; Hüsing, T.; Graaf, L.; Werland, S.; in cooperation with Berlin Health & Environment Alliance (HEAL), Brüssel ; Environmental Policy Research Centre - Freie Universität Berlin (FFU)

Commissioned by: German Environment Agency (UBA)

Reducing microcontaminants in the water cycle through targeted chemical design, a contribution of sustainable chemicals management to sustainable water resources management: The example of textile finishing, Sub-project 3 (2013)

Bunke, D.

Commissioned by: German Federal Ministry of Education and Research (BMBF)

Selection and application of chemicals in SMEs. Assessment of sustainability (2013)

Bunke, D.; Groß, R.

Commissioned by: German Environment Agency (UBA)

Thematic strategy on sustainable use of plant protection products - Prospects and requirements for transferring proposals for plant protection products to biocides (2011)

Groß, R. in collaboration with Gartiser, S.; Luskow, H.; in cooperation with Hydrotox GmbH; Oeko-Institut e.V.

Commissioned by: German Environment Agency (UBA)

Carcinogenic and mutagenic substances and reproductive toxicants (CMR) and other problematic substances in consumer products - identification of relevant substances and articles, analytical control and consequences for the chemical regulation framework (2010)

Bunke, D. in collaboration with Oppl, R.; Kalberlah, F.; Schwarz, M.; in cooperation with Eurofins Product Testing A/S; Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG)

Commissioned by: German Environment Agency (UBA)

Guideline for sustainable chemistry - Formulation and practical application of strategies and criteria for assessing and selecting sustainable chemicals (2010)

Bunke, D.; Groß, R.; in cooperation with Ökopol – Institute for Environmental Strategies GmbH

Commissioned by: German Environment Agency (UBA)

6.2. Chemicals management and REACH

Maintenance of the chemical indicator set - IV *(in progress)*

Bunke, D.; Moch, K.; Stahl, H. in collaboration with Oltmanns, J.; in cooperation with Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG)
Commissioned by: European Commission, Directorate General ESTAT

REACH Radar Plus - Support for SMEs on problematic substances, detection, substitution, conformity testing *(2021)*

Bunke, D.; Moch, K. in collaboration with Fath, A.; in cooperation with Furtwangen University
Funded by: German Federal Environmental Foundation (DBU)

Advancing REACH: Proposals for the updating and further development of the European Chemicals Regulation after 2018 and strategies for implementation *(2021)*

See also: <https://www.umweltbundesamt.de/publikationen/advancing-reach-reach-sustainable-chemistry>

Bunke, D.; Hermann, A.; Löw, C.; Moch, K. in collaboration with Jepsen, D.; in cooperation with Environment and Health Consulting; Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG); Ökopol – Institute for Environmental Strategies GmbH; Risk & Policy Analysts Ltd. (RPA); Society for Institutional Analysis (sofia) e.V.
Commissioned by: German Environment Agency (UBA)

Scientific and technical assistance for the maintenance and further development of indicators to monitor environmental and health benefits of the EU chemicals legislation *(2020)*

Bunke, D.; Stahl, H. in collaboration with Begemann, K.; Desel, H.; Camboni, M.; Footitt, A.; Oltmanns, J.; Macherey, M.; in cooperation with Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG); German Federal Institute for Risk Assessment (BfR); Risk & Policy Analysts Ltd. (RPA)
Commissioned by: European Commission, DG Environment

Maintenance of the Eurostat Chemical Indicator Set - III *(2019)*

Bunke, D.; Stahl, H. in collaboration with Oltmanns, J.; in cooperation with Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG)
Commissioned by: European Commission, Directorate General ESTAT

PBT - quo vadis? Review and update of the PBT assessment approach for the identification of environmental SVHC *(2018)*

Blepp, M.; Bunke, D.; Moch, K. in collaboration with Scheringer, M.; in cooperation with Consultancy for integrated solutions (BiPRO); ETH Zurich University (ETH Zürich)
Commissioned by: German Environment Agency (UBA)

REACH in practice IV: Supporting stakeholders in the establishment and maintenance of REACH expertise *(2017)*

Bunke, D.; Moch, K. in collaboration with Wirth, O.; et al.; in cooperation with Ökopol – Institute for Environmental Strategies GmbH
Commissioned by: German Environment Agency (UBA)

Supply of statistical services: REACH Baseline Study - 10 years update *(2017)*

Bunke, D. in collaboration with Oltmanns, J.; Rasmussen, D.; Grammont, V.; in cooperation with Dansk Hydraulisk Institut (DHI); Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG); Institut National de l'Environnement industriel et des risques
Commissioned by: European Commission, DG for Internal Market, Industry, Entrepreneurship and SMEs

Advisory services on REACH (2017)

Blepp, M.; Bunke, D.

*Commissioned by: Kunststofftechnik Buzzi GmbH***Advisory services: REACH supply chain communication (2017)**

Blepp, M.; Bunke, D.

*Commissioned by: UNIWELL Rohrsysteme GmbH & Co. KG***Reach Radar Network - Systematic Identification and Prioritisation of Substances of Very High Concern for the Group of Galvanisation Companies (2017)**

Bunke, D.; Blepp, M. in collaboration with Fischer, S.; Buzzi, M.; Fath, A.; in cooperation with Furtwangen University; Kunststofftechnik Buzzi GmbH; UNIWELL Rohrsysteme GmbH & Co. KG

*Commissioned by: German Federal Environmental Foundation (DBU)***Maintenance of the chemical indicator set - II (2016)**

Bunke, D.; Jenseit, W.; Stahl, H. in collaboration with Oltmanns, J.; et al.; in cooperation with Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG)

*Commissioned by: European Commission, Directorate General ESTAT***Collection and analysis of exposure and usage data to determine the relevance of potentially endocrine disrupting chemicals - preparation for nomination as Substance of Very High Concern (SVHC) under REACH (2015)**

Bunke, D.; Groß, R.; Moch, K.; in cooperation with Consultancy for integrated solutions (BiPRO)

*Commissioned by: German Environment Agency (UBA)***Strengthening of the provisions for (imported) articles in the REACH regulation (2015)**

Bunke, D.; Hermann, A. in collaboration with Führ, M.; Schenten, J.; in cooperation with Society for Institutional Analysis (sofia) e.V.

*Commissioned by: German Environment Agency (UBA)***Conferences for the implementation of REACH (2014)**

Bunke, D. in collaboration with Jepsen, D.; Reihlen, A.; Wirth, O.; in cooperation with Ökopol – Institute for Environmental Strategies GmbH

*Commissioned by: German Environment Agency (UBA)***Mixtures in the environment - Developing evaluation strategies for the regulation of chemicals under REACH (2014)**

Bunke, D.; Groß, R. in collaboration with Reineke, N.; Kaberlah, F.; Oltmanns, J.; Schwarz, M.; Reihleine, A.; in cooperation with Environment and Health Consulting; Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG); Ökopol – Institute for Environmental Strategies GmbH

*Commissioned by: German Environment Agency (UBA)***Maintenance of the chemical indicator set - I (2013)**

Bunke, D.; Jenseit, W.; Rausch, L. in collaboration with Hahn, A.; Begemann, K.; Kaberlah, F.; Oltmanns, J.; Ramussen, D.; in cooperation with Dansk Hydraulisk Institut (DHI); Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG); German Federal Institute for Risk Assessment (BfR); Institut National de l'Environnement industriel et des risques

Commissioned by: European Commission, Directorate General ESTAT

Socio-economic analysis (SEA) in authorisation and restriction under REACH: Assessment of abatement costs of chemicals - ex ante and ex post (2014)

Gensch, C.; Baron, Y.; Blepp, M.; Bunke, D. in collaboration with Greßmann, A.; Djordjević, B.; Fischer, B.; Joas, R.; Geldermann, J.; Lauven, L.-P.; Lerche, N.; in cooperation with Consultancy for integrated solutions (BiPRO); Georg-August-University Göttingen
Commissioned by: German Environment Agency (UBA)

REACH Baseline Study: 5 years update (2013)

Bunke, D.; Groß, R.; Jenseit, W.; Rausch, L. in collaboration with Kaberlah, Fr.; Oltmanns, J.; Rasmussen, D.; Birkved, M.; Andres, S.; Boudet, C.; Mandin, C.; Le Goff, D.; in cooperation with Dansk Hydraulisk Institut (DHI); Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG); Institut National de l'Environnement industriel et des risques
Commissioned by: European Commission, Directorate General ESTAT

Evaluation and coordination of methods and indicators for the environmental monitoring of chemicals in Germany to implement an efficacy assessment and a success control under REACH (2013)

Groß, R.; Heyen, D. in collaboration with Führ, M.; Kleihauer, S.; Schenten, J.; Joas, R.; Bauer, S.; Floredo, Y.; in cooperation with Society for Institutional Analysis (sofia) e.V.
Commissioned by: German Environment Agency (UBA)

Legal analysis on the applicability of the substance definition on nanomaterials under REACH (2012)

Groß, R.; Hermann, A.; Möller, M.
Commissioned by: German Environment Agency (UBA)

Examination and assessment of consequences for industry, consumers, human health and the environment of possible options for changing the REACH requirements for nanomaterials (2013)

Bunke, D.; Diesner, M.; Groß, R.; Hermann, A.; Möller, M. in collaboration with Joas, R.; Abel, J.; Djordjević, B.; Fischer, B.; Greßmann, A.; in cooperation with Consultancy for integrated solutions (BiPRO)
Commissioned by: European Commission, DG Research and Innovation

Guidance for Scaling under REACH (2011)

Bunke, D.; Groß, R.; Moch, K.
Commissioned by: German Environment Agency (UBA)

REACH in practice (2011)

Bunke, D.; Gensch, C.; Groß, R. in collaboration with Jepsen, D.; Kahlenborn, W.; in cooperation with adelphi research gGmbH; Ökopool – Institute for Environmental Strategies GmbH; Society for Institutional Analysis (sofia) e.V.
Commissioned by: German Environment Agency (UBA)

REACH guide on exposure assessment and supply chain communication (2010)

Bunke, D.; Groß, R.; in cooperation with Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG)
Commissioned by: Verband der Chemischen Industrie e.V.

6.3. Hazardous substances assessment and substitution

Study to support the assessment of impacts associated with the general review of Directive 2011/65/EU (RoHS Directive) (2023)

Baron, Y.; Behrens, F.; Magrini, C.; Moch, K.; in cooperation with Ramboll Germany GmbH
Commissioned by: European Commission, DG Environment

Ecological problem areas and challenges due to ingredients used in the product segments cosmetics (excl. decorative cosmetics) and detergents and cleaning agents (2022)

Moch, K.; Löw, C.; Magrini, C.
Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)

Study to update the information on the use of cadmium in quantum dot applications for displays and lighting under Directive 2011/65/EU (2022)

Baron, Y.; Behrens, F.; Gensch, C.
Commissioned by: European Commission, DG Environment

Study to assess request for one (-1-) exemption, for lead as a thermal stabilizer in polyvinyl chloride (PVC) used as base material in amperometric, potentiometric and conductometric electrochemical sensors which are used in in-vitro diagnostic medical devices for the analysis of Creatinine and Blood Urea Nitrogen (BUN) in whole blood, in Annex IV of Directive 2011/65/EU (Pack 26) (2022)

Moch, K.; Baron, Y.; Magrini, C.
Commissioned by: European Commission, DG Environment

Study to assess requests for two (-2-) exemptions, for mercury in pressure transducer and DEHP in a PVC base material, in Annex IV of Directive 2011/65/EU (2022)

Moch, K.; Baron, Y.; Behrens, F.; Gensch, C.; Löw, C.; Magrini, C.; in cooperation with Ramboll (Munich)
Commissioned by: European Commission, DG Environment

Study to assess requests for a renewal of seven (-7-) exemptions 18(b), 18(b)-I, 24, 29, 32 and 34 of Annex III and exemption 34 of Annex IV of Directive 2011/65/EU (2021)

Moch, K.; Baron, Y.; Gensch, C.; Köhler, A.; Liu, R.; Löw, C.
Commissioned by: European Commission, DG Environment

Study to assess requests for a renewal of nine (-9-) exemptions 6(a), 6(a)-I, 6(b), 6(b)-I, 6(b)-II, 6(c), 7(a), 7(c)-I and 7 (c)-11 of Annex III of Directive 2011/65/EU (2021)

Baron, Y.; Gensch, C.; Köhler, A.; Liu, R.; Löw, C.; Moch, K.; in cooperation with Ramboll (Munich)
Commissioned by: European Commission, DG Environment

Service contract for technical assistance to the Commission pertaining to exemptions I(a - e), I(f), 2(a), 2(b)(3), 2(b)(4), 3, 4(a), 4(b), 4(c), 4(e), and 4(f) of Annex III of Directive 2011/65/EU (2021)

Baron, Y.; Gensch, C.
Commissioned by: European Commission, DG Environment

Persistent degradation products of halogenated blowing agents and refrigerants in the environment: type, environmental concentrations and fate with particular regard of new halogenated substitutes with low global warming potential (2021)

Rüdenauer, I.; Jörß, W.; Ludig, S. in collaboration with Gschrey, B.; et al.; in cooperation with Öko-Recherche
Commissioned by: German Environment Agency (UBA)

Study to support the review of the list of restricted substances and to assess a new exemption request under RoHS 2 - Pack 15 (2020)

Baron, Y.; Blepp, M.; Bunke, D.; Gensch, C.; Köhler, A.; Löw, C.; Moch, K.; Möller, M. in collaboration with Deubzer, O.; Klemm, C.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

Study to assess one request for renewal of exemption 12 of Annex IV to Directive 2011/65/EU - Pack 19 (2020)

Moch, K.; Baron, Y. in collaboration with Deubzer, O.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

Study to assess one (1) request for a new exemption to Annex IV of Directive 2011/65/EU for bis-(2-ethylhexyl) phthalate (DEHP) in plastic components in MRI detector coils (2020)

Moch, K.; Baron, Y. in collaboration with Deubzer, O.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

Study to assess seven exemption requests relating to Annex III and IV to Directive 2011/65/EU: request for renewal of exemptions 6(a), 6(b), 6(c), 7(a) and 7(c)-I of Annex III; request for renewal of exemption 27 of Annex IV; and request for a new exemption for lead in bismuth lead strontium calcium copper oxide superconductor cables and wire and lead in electrical connections to these wires to be added to Annex IV - Pack 18 (2020)

Moch, K.; Baron, Y.

Commissioned by: European Commission, DG Environment

Study to identify and assess the feasibility of measures to enhance the impact of Directive 2006/66/EG on the protection of the environment, on the promotion of circular economy and on the smooth functioning of the internal market (2021)

See also: <https://op.europa.eu/en/publication-detail/-/publication/d8eb3539-8089-11eb-9ac9-01aa75ed71a1/language-en/format-PDF/source-search>

Stahl, H.; Baron, Y.; Buchert, M.; Dolega, P.; Gsell, M.; Mehlhart, G.; Sutter, J. in collaboration with Vermeulen, J.; in cooperation with Trinomics BV

Commissioned by: European Commission, DG Environment

Best available techniques for PFOS substitution in the surface treatment of metals and plastics and analysis of alternative substances to PFOS in chrome plating and plastic pickling (2020)

Baron, Y.; Blepp, M. in collaboration with Weber, R.; Herold, C.; Willand, W.; in cooperation with IUW-integrierte Umweltberatung; POPs Environmental Consulting - Dr. Roland Weber

Commissioned by: German Environment Agency (UBA)

Study to assess three exemption requests relating to Annex IV to Directive 2011/65/EU: request for amendment of existing exemption 31a; request for a new exemption for Bis-(ethylhexyl) phthalate (DEHP) in ion selective electrodes for point of care analysis of ionic substances in human body fluids; and request for a new exemption for DEHP in plastic strain relief devices used to prevent damage to cable connections to MRI imaging coils - Pack 17 (2020)

Moch, K.; Gensch, C.; López, V.

Commissioned by: European Commission, DG Environment

Study to assess two exemption requests in Annexes III and IV to Directive 2011/65/EU: renewal of exemption IV.42, and request for a new exemption for lead and hexavalent chromium compounds in electric and electronic initiators of explosives for civil (professional) use (2019)

Moch, K.; Gensch, C.; Möller, M. in collaboration with Deubzer, O.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)
Commissioned by: European Commission, DG Environment

Review in the light of scientific and technical progress of exemptions 8(e), 8(f)(b), 8(g) and 14 and re-evaluation of entry 8(j) of Annex II to Directive 2000/53/EC (ELV) (2019)

Baron, Y.; Moch, K. in collaboration with Deubzer, O.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)
Commissioned by: European Commission, DG Environment

Analysing substance derogation requests under Article 6.7 of Ecolabel Regulation EC 66/2010 - Pack 2 (2019)

Baron, Y.; Moch, K.
Commissioned by: European Commission, DG Research and Innovation

Study to assess eight exemption requests in Annexes III and IV to Directive 2011/65/EU: renewal of exemptions III.41, IV.37, IV.41, and requests for new exemptions for lead and DEHP in certain NRMM engines applications, lead in solder and hexavalent chromium to be used in mass spectrometers, lead in certain thermal cutoff fuses and lead in solders of certain applications used to identify radiation - Pack 14 (2019)

See also: <http://rohs.exemptions.oeko.info/>
Baron, Y.; Gensch, C.; Moch, K. in collaboration with Deubzer, O.
Commissioned by: European Commission, DG Environment

Evaluation of the Directive 2006/66EC on batteries and accumulators and waste batteries and accumulators (2018)

Stahl, H.; Baron, Y.; Hay, D.; Hermann, A.; Mehlhart, G.; Müller, N.; Weishäupl, J. in collaboration with Williams, R.; Rademaekers, K.; van der Laan, J.; Vermeulen, J.; Yearwood, J.; in cooperation with Ernst & Young (EY); Trinomics BV
Commissioned by: European Commission, DG Environment

Study to assess three exemption requests: exemption I(g) (Annex III) for mercury in single capped compact fluorescent lamps for general lighting purposes and two new exemptions (lead in soldering of certain printed circuit board assembly in gas detectors and lead in solder used to make electrical connections to vacuum boards used in Mass Spectrometers Boards designed to be used periodically under low pressure) in Annex IV to Directive 2011/65/EU - Pack 13 (2018)

Baron, Y.; Blepp, M.; Gensch, C.; Moch, K. in collaboration with Deubzer, O.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)
Commissioned by: European Commission, DG Environment

The relevance of commercial textile and dish cleaning on the entry of phosphate and other phosphate compounds (P) into the waste water (2017)

Mehlhart, G.; Blepp, M.; Bulach, W.; Moch, K.
Commissioned by: German Environment Agency (UBA)

Assessment of the implementation of Directive 2000/53/EU on end-of-life vehicles (the ELV Directive) with emphasis on the end-of life vehicles of unknown whereabouts (2017)

Mehlhart, G.; Baron, Y.; Hermann, A.; Kosińska-Terrade, I.; in cooperation with Argus; Institut de Conseil et d'Etudes en Développement Durable (Institute for Consultancy and Studies in Sustainable Development – ICEDD); Resources and Waste Advisory Group (RWA); Wolfgang Kaerger Environmental Consultancy

Commissioned by: European Commission, DG Environment

Study to assess socio-economic impact of substitution of certain mercury-based lamps currently benefitting of RoHS 2 exemptions in Annex III (2017)

See also: <http://rohs.exemptions.oeko.info/>

Baron, Y.; Gensch, C. in collaboration with Deubzer, O.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

Evaluation of small brominated alkyl alcohols for a possible RoHS restriction (2017)

Baron, Y.; Gensch, C.; Moch, K. in collaboration with Kjølholt, J.; Hagen Mikkelsen, S.; in cooperation with COWI Denmark Holding A/S

Commissioned by: Danish Environmental Protection Agency (EPA)

Analysing substance derogation requests under Article 6.7 of Ecolabel Regulation EC 66/2010 (2017)

Baron, Y.

Commissioned by: European Commission, DG Research and Innovation

Study to assess two RoHS exemption requests: #1 for lead in bearings and bushes of professional-use non-road equipment engines; #2 for lead in solders used to construct and connect to Peltier thermal cyclers used for in-vitro diagnostic analysers that use polymerase chain reaction - Pack 11 (2017)

Baron, Y.; Gensch, C. in collaboration with Deubzer, O.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

Study to assess two RoHS exemption requests: #1 Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm² of light-emitting area) for use in solid state illumination or display systems (Request for renewal of exemption 39 of Annex III of Directive 2011/65/EU); #2 Cadmium in LCD Quantum Dot Light Control Films and Components - Pack 10 (2016)

See also: <http://rohs.exemptions.oeko.info/>

Baron, Y.; Blepp, M.; Gensch, C.

Commissioned by: European Commission, DG Environment

Study to assess renewal requests for 29 RoHS 2 Annex III exemptions [no. 1(a to e - lighting purpose), no. 1(f - special purpose), no. 2(a), no. 2(b)(3), no. 2(b)(4), no. 3, no. 4(a), no. 4(b), no. 4(c), no. 4(e), no. 4(f), no. 5(b), no. 6(a), no. 6(b), no. 6(c), no. 7(a), no. 7(c) - I, no. 7(c) - II, no. 7(c) - IV, no. 8(b), no. 9, no. 15, no. 18b, no. 21, no. 24, no. 29, no. 32, no. 34, no. 37] - Pack 9 (2016)

Baron, Y.; Blepp, M.; Gensch, C.; Moch, K.; Moritz, S. in collaboration with Deubzer, O.; Gibbs, A.; in cooperation with Eunomia Research and Consulting Ltd.; Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

8th Adaptation to scientific and technical progress of exemptions 2©, 3 and 5 of Annex II to Directive 2000/53/EC (ELV) (2016)

See also: http://ec.europa.eu/environment/waste/elv_index.html

Baron, Y.; Gensch, C.; Moch, K. in collaboration with Gibbs, A.; in cooperation with Eunomia Research and Consulting Ltd.

Commissioned by: European Commission, DG Environment

Study to assess three RoHS exemption requests (#1 for lead in thin film electronic sensor elements such as pyroelectric sensors or piezoelectric sensors; #2 for lead in high voltage cables and cable assemblies (for industrial monitoring and control instruments) for a rated voltage higher than 250kV DC, containing up to 4% lead by weight; #3 for lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as phototherapy lamps containing phosphors such as BSP (BaSi205:Pb)) - Pack 8 (2016)

See also: <http://rohs.exemptions.oeko.info/>

Baron, Y.; Gensch, C.; Moch, K. in collaboration with Deubzer, O.; Gibbs, A.; in cooperation with Eunomia Research and Consulting Ltd.; Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

Reporting to the European Commission pursuant to Article 12 of the EU Regulation (EC) No 850/2004 on POPs (2015)

Blepp, M. in collaboration with Weber, R.; Willand, W.; in cooperation with IUW-integrierte Umweltberatung; POPs Environmental Consulting - Dr. Roland Weber

Commissioned by: German Environment Agency (UBA)

Study to assess four renewal requests for RoHS 2 Annex III exemptions no. 7(b), no. 9(b), no. 13(a) and no. 13(b). (RoHS Directive) - Pack 7 (2015)

See also: <http://rohs.exemptions.oeko.info/>

Baron, Y.; Gensch, C.; Moch, K. in collaboration with Deubzer, O.; Gibbs, A.; in cooperation with Eunomia Research and Consulting Ltd.; Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

Assistance to the Commission on technological, socio-economic and cost-benefit assessment related to exemptions from the substance restrictions in electrical and electronic equipment (RoHS Directive) - Pack 6 (2015)

See also: <http://rohs.exemptions.oeko.info/>

Gensch, C.; Baron, Y.; Hünecke, K. in collaboration with Deubzer, O.; Gibbs, A.; in cooperation with Eunomia Research and Consulting Ltd.; Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

Study for the analysis of impacts from RoHS 2 on non-road mobile machinery without an on-board power source, on windows and doors with electric functions, and on the refurbishment of medical devices (2015)

Baron, Y.; Gensch, C.; Moch, K. in collaboration with Gibbs, A.; in cooperation with Eunomia Research and Consulting Ltd.

Commissioned by: European Commission, DG Environment

Analysis and trend assessment of environmental and foods contamination with selected POPs, and enhancement of the Dioxin Database Federation/Länder with the aim of path-related investigation of causes (2015)

Blepp, M. in collaboration with Weber, R.; Herold, C.; in cooperation with POPs Environmental Consulting - Dr. Roland Weber
Commissioned by: German Environment Agency (UBA)

Assistance to the Commission on technological, socio-economic and cost-benefit assessment related to exemptions from the substance restrictions in the End-of-Life of Vehicles (ELV) Directive (2014)

Baron, Y.; Blepp, M.; Gensch, C. in collaboration with Deubzer, O.; Hogg, D.; in cooperation with Eunomia Research and Consulting Ltd.; Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)
Commissioned by: European Commission, DG Environment

Assistance to the Commission on technological, socio-economic and cost-benefit assessment related to exemptions from the substance restrictions in electrical and electronic equipment (RoHS Directive) - Pack 5 (2014)

See also: <http://rohs.exemptions.oeko.info/>

Baron, Y.; Gensch, C. in collaboration with Deubzer, O.; Hogg, D.; in cooperation with Eunomia Research and Consulting Ltd.; Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)
Commissioned by: European Commission, DG Environment

Environmentally sound use of disinfectants, masonry preservatives, and rodenticides (2014)

Groß, R. in collaboration with Calliera, M.; Burkhardt, M.; Gartiser, S.; in cooperation with Hochschule für Technik Rapperswil (HSR); Hydrotox GmbH; OPERA Research Center
Commissioned by: German Environment Agency (UBA)

Additional input to the Commission's impact assessment for a review of the scope of provisions of the RoHS 2 Directive pursuant Article 24(1) (2014)

See also: <http://rohs.exemptions.oeko.info/>

Baron, Y.; Diesner, M.; Gensch, C. in collaboration with Hogg, D.; in cooperation with Eunomia Research and Consulting Ltd.
Commissioned by: European Commission, DG Environment

Study for the review of the list of restricted substances under RoHS 2 - Analysis of impacts from a possible restriction of several new substances under RoHS 2 (2014)

Baron, Y.; Blepp, M.; Gensch, C.; Moch, K. in collaboration with Hogg, D.; in cooperation with Eunomia Research and Consulting Ltd.
Commissioned by: European Commission, DG Environment

Underestimation of the environmental risk by not considering parallel uses of biocidal products: Cumulative exposure and risk assessment of biocidal products (2014)

Groß, R.; Bunke, D.; Hermann, A. in collaboration with Gartiser, S.; in cooperation with Hydrotox GmbH
Commissioned by: German Environment Agency (UBA)

Assistance to the Commission on technological, socio-economic and cost-benefit assessment related to exemptions from the substance restrictions in electrical and electronic equipment (RoHS Directive) - Pack 4 (2014)

Baron, Y.; Blepp, M.; Gensch, C. in collaboration with Deubzer, O.; Hogg, D.; in cooperation with Eunomia Research and Consulting Ltd.; Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

Evaluation of the Salewa Restricted Substance List (2013)

Groß, R.; Bunke, D.; Stratmann, B.; Teufel, J.

Commissioned by: Salewa, Oberalp Deutschland GmbH

Status Report: Substitution of PFOS in the metal-plating sector with fluorine-free alternatives (2013)

Blepp, M.; Baron, Y.; Bunke, D.

Commissioned by: German Environment Agency (UBA)

Assistance to the Commission on technological, socio-economic and cost-benefit assessment related to exemptions from the substance restrictions in electrical and electronic equipment (RoHS Directive) - Pack 3 (2013)

See also: <http://rohs.exemptions.oeko.info/>

Gensch, C.; Baron, Y.; Blepp, M. in collaboration with Deubzer, O.; Hogg, D.; in cooperation with Eunomia Research and Consulting Ltd.; Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

Assistance to the Commission on technological, socio-economic and cost-benefit assessment related to exemptions from the RoHS Directive - Pack 2 (2013)

See also: <http://rohs.exemptions.oeko.info/>

Gensch, C.; Baron, Y.; Blepp, M. in collaboration with Deubzer, O.; Hogg, D.; in cooperation with Eunomia Research and Consulting Ltd.; Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

Technical support on reporting obligations and update of the Community Implementation Plan under the POP Regulation (2013)

Zangl, S.; Blepp, M.; Moch, K. in collaboration with Mudgal, S.; Sonigo, P.; Toni, A. de; Lockwood, S.; in cooperation with BIO Intelligence Service

Commissioned by: European Commission, DG Environment

Assistance to the Commission on technological, socio-economic and cost-benefit assessments related to the implementation and further development of EU waste legislation: Study to assess RoHS exemptions - Pack 1 (2013)

See also: <http://rohs.exemptions.oeko.info/>

Gensch, C.; Baron, Y.; Blepp, M.; Manhart, A.; Moch, K. in collaboration with Deubzer, O.; Hogg, D.; in cooperation with Eunomia Research and Consulting Ltd.; Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)

Commissioned by: European Commission, DG Environment

Development of a list of potential POP candidates for the Stockholm Convention and refinement of the POP criteria - Which strategy is to be adopted for a successful identification of new POPs? (2013)

Blepp, M.; Bunke, D.; Groß, R.; Moch, K. in collaboration with Scheringer, M.; Hukari, S.; in cooperation with ETH Zurich University (ETH Zürich)
Commissioned by: German Environment Agency (UBA)

Assistance to the Commission on technological, socio-economic and cost-benefit assessment related to exemptions from the substance restrictions in electrical and electronic equipment (RoHS Directive) (2012)

Gensch, C.; Baron, Y.; Blepp, M.; Manhart, A.; Moch, K. in collaboration with Deubzer, O.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)
Commissioned by: European Commission, DG Environment

National-level implementation of the Stockholm convention on persistent organic pollutants (POPs) - PBDE and PFOS in products and in the recycling loops (2013)

Blepp, M.; Marquardt, M.; Moch, K.; in cooperation with Eurofins GfA Lab Service GmbH; Ökopol – Institute for Environmental Strategies GmbH
Commissioned by: German Environment Agency (UBA)

Adaptation to scientific and technical progress of exemption 8(i) of Annex II to Directive 2000/53/EC (ELV) (2012)

Zangl, S. in collaboration with Deubzer, O.
Commissioned by: European Commission, DG Environment

Basic principles for the development of a concept for cumulative environmental exposure assessments under REACH (2011)

Groß, R.
Commissioned by: German Environment Agency (UBA)

Adaptation to scientific and technical progress under Directive 2002/95/EC - evaluation of new requests for exemptions and/or review of existing exemptions (2011)

Zangl, S.; Blepp, M.; Liu, R.; Moch, K. in collaboration with Deubzer, O.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)
Commissioned by: European Commission, DG Environment

Determination of the quantities of poorly biodegradable organic ingredients in detergents and cleaning products in relation to the quantities of these substances used in other sectors, with regard to the benefit of substance substitution (2011)

Groß, R.; Bunke, D.; Moch, K.
Commissioned by: German Environment Agency (UBA)

Elaboration of a concept for the cumulative environmental exposure assessment of biocides (2010)

Groß, R.; Bunke, D.; Moch, K. in collaboration with Gartiser, S.
Commissioned by: German Environment Agency (UBA)

Adaptation to scientific and technical progress of Annex II to Directive 2000/53/EC (ELV) and of the Annex to Directive 2002/95/EC (RoHS) (2010)

Zangl, S.; Blepp, M.; Gensch, C.; Liu, R.; Moch, K. in collaboration with Deubzer, O.; in cooperation with Fraunhofer Institute for Reliability and Microintegration (Fraunhofer IZM)
Commissioned by: European Commission, DG Environment

End-of-life vehicle Directive 2000/53/EC Annex II: Study on analysis of costs and environmental benefits of heavy metal ban, and proposal for better regulation (2010)

Groß, R.; Bunke, D.; Gensch, C.; Zangl, S. in collaboration with Seifried, D.; in cooperation with Büro Ö-quadrat

Commissioned by: European Automobile Manufacturers' Association

Study of critical substances in hand dishwashing and machine dishwasher detergents, identification of substitution options, and assessment of the environmental risk posed by dishwasher detergents (2010)

Groß, R.; Bunke, D.; Moch, K.

Commissioned by: German Environment Agency (UBA)

Publications relating to sustainable chemistry

Baron, Y.; Gensch, C.; Moch, K.; Deubzer, O.; Clemm, C.; Köhler, A. R.; Löw, C. (2020): Review of the List of Restricted Substance (Annex II) of Directive 2002/95/EC (RoHS); Conference-Proceedings of Electronic Goes Green 2020+, 01.09.2020, Berlin. https://online.electronicsgoesgreen.org/wp-content/uploads/2020/10/Proceedings_EGG2020_v2.pdf

Jeswania, H.K.; Krüger, C.; Kicherer, A.; Antony, F.; Azapagica, A. (2019): A methodology for integrating the biomass balance approach into life cycle assessment with an application in the chemicals sector. In: Science of The Total Environment, Vol. 687, pp. 380-391; <https://doi.org/10.1016/j.scitotenv.2019.06.088>

Bunke, D., Moritz, S., Brack, W., López Herráez, D., Posthuma, L., Nuss, M. (2019): Developments in society and implications for emerging pollutants in the aquatic environment. Environmental Sciences Europe (2019) 31:32; Online verfügbar: <https://doi.org/10.1186/s12302-019-0213-1>

Weber, R.; Herold, C.; Hollert, H.; Kamphues, J.; Ungemach, L.; Blepp, M.; Ballschmiter, K. (2018): Life cycle of PCBs and contamination of the environment and of food products from animal origin. Environmental science and pollution research international (online ahead of print).

Bunke D., Peschers M., Lersch F., Nuss M. (2018): Häufigkeit hormonell wirkender Stoffe in Kosmetikprodukten von Studentinnen und Studenten. Hauswirtschaft und Wissenschaft 66 (2018), ISSN 2626-0913. <https://haushalt-wissenschaft.de>; Online verfügbar: http://doi.org/10.23782/HUW_11_2017

Sackmann, K., Reemtsma, T., Rahmberg, M., Bunke, D. (2018): Impact of European chemicals regulation on the industrial use of plasticisers and patterns of substitution in Scandinavia. Environment International 119, S. 346-352. Online verfügbar: <https://doi.org/10.1016/J.ENVINT.2018.06.037>

Blum, C.; Bunke, D.; Hungsberg, M.; Roelofs, E.; Joas, A.; Joas, R.; Blepp, M.; Stolzenberg, H.-C. (2017): The concept of sustainable chemistry. Key drivers for the transition towards sustainable development. Sustainable Chemistry and Pharmacy 5, S. 94–104. Online verfügbar: <http://dx.doi.org/10.1016/j.scp.2017.01.001>.

Brack, W.; Dulio, V.; Ågerstrand, M.; Allan, I.; Altenburger, R.; Brinkmann, M.; Bunke, D.; Burgess, R. M.; Cousins, I.; Escher, B. I.; Hernández, F. J.; Hewitt, L. M.; Hilscherová, K.; Hollender, J.; Hollert, H.; Kase, R.; Klauer, B.; Lindim, C.; Herráez, D. L.; Miège, C.; Munthe, J.; O'Toole, S.; Posthuma, L.; Rüdell, H.; Schäfer, R. B.; Sengl, M.; Smedes, F.; van de Meent, D.; van den Brink, P. J.; van Gils, J.; van Wezel, A. P.; Vethaak, A. D.; Vermeirssen, E.; von der Ohe, P. C.; Vrana, B. (2017): Towards the review of the European Union Water Framework Directive. Recommendations for more efficient assessment and management of chemical contamination in European surface water resources. The Science of the total environment 576, S. 720–737.

Moritz, S.; Bunke, D.; Brack, W.; Herráez, D. L.; Posthuma, L. (2017): Developments in society and implications for emerging pollutants in the aquatic environment of tomorrow. Oeko-Institut Working Paper (1). Online verfügbar: <https://www.oeko.de/fileadmin/oekodoc/WP-Emerging-Pollutants.pdf>.

Munthe, J.; Brorström-Lundén, E.; Rahmberg, M.; Posthuma, L.; Altenburger, R.; Brack, W.; Bunke, D.; Engelen, G.; Gawlik, B. M.; van Gils, J.; Herráez, D. L.; Rydberg, T.; Slobodnik, J.; van Wezel, A. P. (2017):

An expanded conceptual framework for solution-focused management of chemical pollution in European waters. *Environmental sciences Europe* 29 (1), S. 13.

Oltmanns, J.; Bunke, D.; Jenseit, W. (2016): Compilation of chemical indicators - Development, revision and additional analyses. *eurostat Statistical working papers*. Online verfügbar: <http://ec.europa.eu/eurostat/documents/3888793/7722994/KS-TC-15-006-EN-N.pdf/b11e51ae-c29c-45e3-a1b1-8ba6583906eb>.

Reihlen, A., Bunke, D., Gruhlke, A., Groß, R.; Blum, C. (2016): Guide on Sustainable Chemicals - A decision tool for substance manufacturers, formulators and end users of chemicals (UBA - Umweltbundesamt, Hrsg.). Online verfügbar: https://www.umweltbundesamt.de/sites/default/files/medien/421/publikationen/guide_sustainable_chemicals_2017.pdf.

Reihlen, A., Bunke, D., Gruhlke, A., Groß, R.; Blum, C. (2016): Leitfaden Nachhaltige Chemikalien - Eine Entscheidungshilfe für Stoffhersteller, Formulierer und Endanwender von Chemikalien (UBA - Umweltbundesamt, Hrsg.). Online verfügbar: https://www.umweltbundesamt.de/sites/default/files/medien/1968/publikationen/161215_uba_fb_chemikalien_dt_bf.pdf

7. Technology assessment

7.1. Cross-cutting issues

Greenhouse gas neutrality in the EU and in Germany: The conception of a target architecture considering sinks *(in progress)*

Jörß, W.; Böttcher, H.; Gores, S.; Graichen, J.; Köhler, A.; Krob, F.; Liste, V.; Möller, M.; Siemons, A.; in cooperation with Prognos AG
Commissioned by: German Environment Agency (UBA)

Opportunities and risks of methods to remove and store CO₂ from the atmosphere - Recommendations based on the analysis of the state of knowledge and a systematic survey of experts in Switzerland *(2022)*

Cames, M.; Hermann, A.; Köhler, A.; Möller, M.; in cooperation with Swiss Federal Laboratories for Materials Science and Technology
Commissioned by: Center for Technology Assessment

Comparative economic and ecological assessment of the resource input when using recycled plastics in packaging materials *(2022)*

Köhler, A.; Bulach, W.; Eckert, D.; Schleicher, T. in collaboration with Schmitz, M.; in cooperation with Jokey Holding GmbH & Co. KG
Commissioned by: VDI Zentrum Ressourceneffizienz GmbH

Life cycle assessment of high and extra high-voltage lines in Germany *(2022)*

Sutter, J.; Eckert, D.; Flachsbarth, F.; Hermann, C.; Liu, R.
Commissioned by: German Environment Agency (UBA)

Comparative analysis of electrical energy storage systems - application scenarios, economic and ecological evaluation *(2020)*

Bulach, W.; Baron, Y.; López, V.; Möller, M.
Commissioned by: Bayerisches Landesamt für Umwelt

A plastic-free world? What would happen if the use of plastics in selected application fields was consistently reduced? (2019)

Köhler, A.

Commissioned by: Oeko-Institut e.V.

SME innovative – collaborative project on resource efficiency: UpcyclePET – Development of innovative processes and formulations designed for the upcycling of PET-bottles and blister recyclates for high-tech plastic applications, TV 2: assessment of sustainability aspects during product development (2019)

Köhler, A.; Blepp, M.; López, V.; Möller, M. in collaboration with Schömberger, F.; in cooperation with Fraunhofer-Institut für Betriebsfestigkeit und Systemzuverlässigkeit (Fraunhofer LBF)

Funded by: German Federal Ministry of Education and Research (BMBF)

Preparation of a study for comparative economic and ecological evaluation of additive and conventional manufacturing technologies in industrial production (2019)

Köhler, A.; Baron, Y.; Bulach, W. in collaboration with Bierdel, M.; Kilchert, S.; Pfaff, A.; in cooperation with Fraunhofer Institute for High-Speed Dynamic Ernst-Mach-Institut (Fraunhofer EMI)

Commissioned by: VDI Zentrum Ressourceneffizienz GmbH

Substitution as a strategy for reducing the criticality of raw materials for environmental technologies – Determination of potentials for second best solutions (2018)

Buchert, M.; Bulach, W.; Degreif, S.; Köhler, A.; Prakash, S.; Schüler, D. in collaboration with Behrendt, M.; Nölte, R.; Röben, A.; in cooperation with Institute for Futures Studies and Technology Assessment (IZT)

Commissioned by: German Environment Agency (UBA)

Evaluation of the impact of energy management systems (EnMS) (2018)

Köhler, A. in collaboration with Lindner, U.; Radgen, P.; Unger, M.; Krüger, L.; Deutsch, N.; Barckhausen, A.; Fehr, J.; Jensterle, M.; Gründig, D.; Koselleck, M.; in cooperation with adelphi consult GmbH; German Energy Agency (dena); PricewaterhouseCoopers GmbH - Wirtschaftsprüfungsgesellschaft; University of Stuttgart

Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)

Comparative economic and ecological assessment of innovative stationary energy storage technologies in industrial production (2017)

Köhler, A.; Baron, Y.; Buchert, M.; Bulach, W.; Möller, M.; Stahl, H.; in cooperation with Institute for Futures Studies and Technology Assessment (IZT)

Commissioned by: VDI Zentrum Ressourceneffizienz GmbH

Review of the Eco-innovation Action Plan (EcoAP) (2015)

Baron, Y. in collaboration with Kállay, T.; Herczeg, M.; Bilsen, V.; Debergh, P.; Gerard, M.; Mertens, K.; Padilla, P.; Strosser, P.; Klaassens, E.; et al.; in cooperation with ACTeon environment research & consultancy; Copenhagen Resource Institute (CRI); Ecorys; IDEA Consult; The Regional Environmental Center (REC)

Commissioned by: European Commission, DG Environment

Substitution of critical raw materials in permanent magnets in wind turbines and electric vehicles, and in phosphors and LEDs for lighting

(2015)

Schüler, D.; Buchert, M.; Degreif, S.; Jenseit, W.; Schleicher, T.

Commissioned by: European Commission, DG Research and Innovation

Innovative hydrogen storage solutions for the future: Recycling and environmental requirements and strategies for avoiding supply risks of their production (2015)

Köhler, A.; Bauknecht, D.; Hermann, A.; Jenseit, W.; Merz, C.; Schüler, D.; Stahl, H.; Vogel, M. in collaboration with Jörissen, L.; Storr, U.; in cooperation with Center for Solar Energy and Hydrogen Research (ZSW)

Commissioned by: German Environment Agency (UBA)

7.2. Nanotechnology

NANotechnology Risk Governance (NANORIGO) (2023)

See also: <https://nanorigo.eu/>

Köhler, A.; Hermann, A.; Seidl, R.

Funded by: European Commission, DG Research and Innovation

Ensuring proper risk assessment of nanomaterials to establish a precaution-based regulatory framework for their production and use (2017)

Hermann, A.; Köhler, A.; Möller, M. in collaboration with Degallaix, L.; Cristofaro, D.; in cooperation with Center for International Environmental Law; European Environmental Citizens Organisation for Standardisation (ECOS)

Commissioned by: The Velux Foundation, Søborg

Legal feasibility study on the legal implementation possibilities for a nano-plants and installation register (2017)

Hermann, A.; Möller, M.

Commissioned by: Landesamt für Natur, Umwelt und Verbraucherschutz des Landes NRW

Contribution to the OECD Working Party on Manufactured Nanomaterials (WPMN) (2013)

Möller, M.; Hermann, A.

Commissioned by: German Environment Agency (UBA)

Assessments of impacts of a European register of products containing nanomaterials (2013)

Diesner, M.; Hermann, A.; in cooperation with Consultancy for integrated solutions (BiPRO)

Commissioned by: German Environment Agency (UBA)

Investigation of the effects related to selected nanotechnology-based products on resource and energy requirements (2013)

Möller, M.; Diesner, M.; Küppers, P.; Manhart, A.; Pistner, C.; Spieth-Achtnich, A.

Commissioned by: German Environment Agency (UBA)

Nanomaterials: Impacts on environment and health (2013)

Möller, M.; Diesner, M.; Groß, R.; Hermann, A.; Küppers, P.; in cooperation with VDI Technologiezentrum GmbH

Commissioned by: Center for Technology Assessment

Analysis and strategic management of nanoproducts with regard to their sustainability potential; Nano-Sustainability Check (2012)

Möller, M.; Diesner, M.; Groß, R.; Hermann, A.; Hünecke, K.; Küppers, P.; Pistner, C.; Prakash, S.; Spieth-Achtnich, A.

Commissioned by: German Environment Agency (UBA)

Legal feasibility study on the introduction of a nanoproduct register (2010)

Hermann, A.; Möller, M.

Commissioned by: German Environment Agency (UBA)

7.3. Technology development processes

Development accompanying sustainability analyses in the cross-sectional project for the ,Digital GreenTech‘ funding measure *(in progress)*

Möller, M.; Antony, F.; Behrens, F.; Gensch, C.; Gröger, J.; Köhler, A.; Liu, R. in collaboration with Becker, N.; Klein, M.; Meisner, J.; Schwarz, L.; in cooperation with Gesellschaft für Informatik
Commissioned by: German Federal Ministry of Education and Research (BMBF)

GreenManufacturing - Expert group for the development and evaluation of ecologically and economically efficient production processes; Sub-project: Integrated evaluation of the substance and material inventory with regard to its compatibility with legal requirements *(in progress)*

Köhler, A.; Baron, Y.; Bunke, D.; Gensch, C.; Löw, C.; Magrini, C.; Moch, K.; Möller, M.
Funded by: Federal Ministry for Economic Affairs and Energy (BMWi)

UPcyclePETplus - Development of a dynamic upcycling process for the utilisation of different PET secondary raw material sources for technically high-quality plastic applications - Subproject 4: Development-accompanying ecological evaluation of the UPcyclePETplus-LFT process chain *(2022)*

Köhler, A.; Liu, R.
Funded by: German Federal Ministry of Education and Research (BMBF)

Publications relating to technology assessment

Köhler, A. R. (2017): Energy and resource efficiency in the production of nanomaterials, Conference proceedings of the 2nd Joint Symposium on Nanotechnology, 06.-07.04.2017, Hannover.

Antony, F.; Grießhammer, R.; Speck, T.; Speck, O. (2016): The cleaner, the greener? Product sustainability assessment of the biomimetic façade paint Lotusan(®) in comparison to the conventional façade paint Jum-bosil(®). *Beilstein journal of nanotechnology* 7, S. 2100–2115.

Stieß, I.; Fischer, C.; Kunkis, M. (2016): Saving power with class. Conference proceedings of BEHAVE 2016 - 4th European Conference on Behaviour and Energy Efficiency, 08.-09.09.2016, Coimbra, Portugal (University of Coimbra, Hrsg.).

Antony, F.; Möller, M. (2015): Zur Bewertung der Nachhaltigkeit in der Aquakultur: Analysekonzepte, aktueller Stand und künftige Potenziale. In: Wedekind, H. (ed.) *Deutscher Fischereitag 2014*. Schriftenreihe des deutschen Fischereiverbandes.

van der Velden, N. M.; Kuusk, K.; Köhler, A. R. (2015): Life cycle assessment and ecodesign of smart textiles. The importance of material selection demonstrated through e-textile product redesign. *Materials & Design* 84, S. 313–324.

Antony, F.; Grießhammer, R.; Speck, T.; Speck, O. (2014): Sustainability assessment of a lightweight biomimetic ceiling structure. *Bioinspiration & biomimetics* 9 (1), S. 16013.

8. Climate and sustainability responsibility of companies and organisations

Accompanying scientific research on a climate-neutral federal administration *(in progress)*

Antony, F.; Braungardt, S.; Cames, M.; Graulich, K.; Keimeyer, F.; Liu, R.; Mottschall, M.; Stuber-Rousselle, K.; Teufel, J.; von Vittorelli, L.; Wagner, T. in collaboration with Seefeldt, F.; Sandhövel, M.; Haberer, L.; Beeg; Spöttle, M.; in cooperation with FutureCamp Holding GmbH; Prof. Dr. Stefan Klinski; Prognos AG

Commissioned by: Federal Ministry for Economic Affairs and Climate Action (BMWK)

Avoiding greenwashing, strengthening ecodesign - challenges for corporate and consumer communication *(in progress)*

Köhler, A.; Antony, F.; Bunke, D.; Gailhofer, P.; Gascon Castillero, L.; Graulich, K.; Heyen, D.; in cooperation with Environment Agency Austria; Rechtsanwälte Günther Partnerschaftsgesellschaft

Commissioned by: German Environment Agency (UBA)

Greenhouse gas neutrality in the EU and in Germany: The conception of a target architecture considering sinks *(in progress)*

Jörß, W.; Böttcher, H.; Gores, S.; Graichen, J.; Köhler, A.; Krob, F.; Liste, V.; Möller, M.; Siemons, A.; in cooperation with Prognos AG

Commissioned by: German Environment Agency (UBA)

Organic study: Implementation of sustainable catering in the guest and educational houses of the Archdiocese of Freiburg *(in progress)*

Teufel, J.; Hanke, G. in collaboration with Roehl, R.; in cooperation with a´verdis

Commissioned by: Erzdiözese Freiburg

Triple climate protection through electricity savings and reinvestment in renewable energies *(in progress)*

Graulich, K.; Seidl, R. in collaboration with Albert-Seifried, S.; Seifried, D.; Gaudian, T.; Walzer, M.; Janssen, S.; in cooperation with Büro Ö-quadrat; Elektrizitätswerke Schönau (EWS); Prof. Dr. Rainer Grießhammer

Commissioned by: German Federal Environmental Foundation (DBU)

Product- and company-related balancing of the greenhouse gas emissions of hot-dip galvanising *(in progress)*

Gensch, C.; Möller, M.; Stuber-Rousselle, K.

Commissioned by: Institut Feuerverzinken GmbH

Comparative Life Cycle Assessment (LCA) study of ‚Simply V‘ products *(2023)*

Antony, F.; Gensch, C.; Liu, R.; Stuber-Rousselle, K.

Commissioned by: E.V.A. GmbH

Expert and NGO Advisory Board Nestlé Germany *(in progress)*

See also: <https://www.nestle.de/verantwortung/experten-und-ngo-beirat>

Antony, F.

Commissioned by: Collaborating Centre on Sustainable Consumption and Production

The Consumer as an Actor in Supply Chain Regulation: A Consumer’s View of Human Rights Risks in the Supply Chain *(in progress)*

Gailhofer, P.; Brunn, C.; Fischer, C.; Heyen, D.; López, V. in collaboration with Thorsten Brand; in cooperation with Dr. Carola Glinski; Institute for Applied Social Sciences (infas)

Commissioned by: Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV)

Climate neutrality in the health sector: Case study-based carbon footprint assessment according to GHG Protocol and potential analysis of climate protection measures in hospital operations (2023)

See also: <https://www.uniklinik-freiburg.de/allgemeinmedizin/cafoges.html>

Köhler, A.; Liu, R.; Rüdener, I.; Teufel, J.; in cooperation with Universitätsklinikum Freiburg
Commissioned by: Universitätsklinikum Freiburg

Creation of a calculation tool for the carbon footprint of electronic publications (2023)

Gröger, J.

Commissioned by: German Newspaper Publishers and Digitalpublishers Association

Inventory of environmental claims: B2B and organisation-level communication (2023)

Graulich, K.; Antony, F.; Gascon Castellero, L.; Löw, C.; in cooperation with Norion Consult
Commissioned by: European Environment Agency

Holistic management of energy- and resource efficiency in companies (MERU) (2022)

Wolff, F.; Gensch, C.; Gsell, M.; Kampffmeyer, N.; Prieß, R.; in cooperation with AlpenSped; B.A.U.M. e.V.; DC-Datacenter-Group GmbH; Institute for Ecological Economy Research (IÖW); Leuphana Universität Lüneburg, Centre for Sustainability Management; Miele & Cie. KG
Funded by: German Federal Ministry of Education and Research (BMBF)

Environmental science and market research on product group-related minimum requirements for the public procurement of technical equipment (2021)

Rüdener, I.; Behrens, F.; Gröger, J.; Hilbert, I.; McLennan, A.; Schleicher, T.

Commissioned by: Senate Department for the Environment, Urban Mobility, Consumer Protection and Climate Action

Scientific monitoring of 100 green productions as part of the sustainability initiative of the working group ‚Green Shooting‘ (2022)

Rüdener, I.; Gensch, C.; López, V.

Commissioned by: Green Shooting vertreten durch Medien- und Filmgesellschaft Baden-Württemberg

Workshop Series UNFCCC Playbook (2022)

Kampffmeyer, N.; López, V.; Moch, K.; Scherf, C.; Teufel, J.

Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

Development of company-related sustainability indicators based on the 2030 Agenda (2022)

Möller, M.; Gensch, C.

Commissioned by: Wien Energie GmbH

Climate-friendly production in the food industry: scientific assessment of climate-related statements such as ‚climate neutral‘ or ‚climate positive‘ on products (2021)

Quack, D.; Antony, F.; Liu, R.; Timpe, C.; in cooperation with 3f design

Commissioned by: Foodwatch e.V.

REACH Radar Plus - Support for SMEs on problematic substances, detection, substitution, conformity testing (2021)

Bunke, D.; Moch, K. in collaboration with Fath, A.; in cooperation with Furtwangen University

Funded by: German Federal Environmental Foundation (DBU)

Climate-friendly production in the automotive industry (2021)

Gensch, C.; Prieß, R.; Stuber-Rousselle, K.; in cooperation with Prof. Dr. Rainer Grießhammer

Commissioned by:

Life cycle assessment analysis of design variants for automatic washing machines (2021)

Rüdenauer, I.; Gensch, C.; Liu, R.
Commissioned by: Miele & Cie. KG

Environmental and human rights due diligence as a means to strengthen sustainable business conduct (2020)

Scherf, C.; Gailhofer, P.; Hilbert, I.; Kampffmeyer, N.; Schleicher, T.; in cooperation with Geulen & Klinger Rechtsanwälte
Commissioned by: German Environment Agency (UBA)

Comparative study on the Life Cycle Assessment (LCA) of Rügenwalder Mühle products (2020)

Antony, F.; Gensch, C.; López, V.; Teufel, J.
Commissioned by: Rügenwalder Mühle Carl Müller GmbH & Co. KG

Further development of strategies against obsolescence including legal instruments (2019)

Keimeyer, F.; Gailhofer, P.; Graulich, K.; Gsell, M.; Prakash, S.; Scherf, C. in collaboration with Brönneke, T.; in cooperation with Hochschule Pforzheim
Commissioned by: German Environment Agency (UBA)

Orientative life-cycle assessment of an aquaculture facility (2020)

Antony, F.; López, V.
Commissioned by: EXIST-Gründerteam ocean[cube] - Hochschule für Technik und Wirtschaft des Saarlandes (htw saar)

Creating an open dialogue on ‚sustainable school catering‘ (2018)

Teufel, J.; Stratmann, B.
Commissioned by: City of Freiburg im Breisgau

Implementation of the Sustainable Assessment Framework (SASF) in the global ICT industry (2018)

Prakash, S.; Prieß, R. in collaboration with Winter, M.; Behrendt, C.; in cooperation with Stakeholder Reporting GmbH
Commissioned by: Global Enabling Sustainability Initiative (GeSI)

Environmental protection guards human rights! The global responsibility of German businesses. Donation project 2016 (2018)

Schleicher, T.; Gailhofer, P.; Kampffmeyer, N.; Scherf, C.; Westphal, I.
Commissioned by: Oeko-Institut e.V.

Screening of existing studies on the topic of PCF/PEF meat or meat substitute products (2017)

Antony, F.; Gensch, C.
Commissioned by: Rügenwalder Mühle Carl Müller GmbH & Co. KG

Hipp Strategy Workshop ‚Product Environmental Footprint (PEF)‘ (2017)

Antony, F.; Liu, R.; Prieß, R.
Commissioned by: Hipp Werk Georg Hipp OHG

Continuation and updating of the advisory services provided in the ‚Sustainability‘ project (2017)

Möller, M.; Rausch, L.
Commissioned by: MVV Energie AG

Strengthening ecological design as a quality criterion in enterprises (2017)

Graulich, K.; Brunn, C.; Prieß, R.; Quack, D.; Scherf, C.; Wolff, F. in collaboration with Lechner, R.; Mai, M.; in cooperation with mai public relations GmbH
Commissioned by: German Environment Agency (UBA)

Consultation services in relation to decisions on propellants for PU foams (2017)

Blepp, M.; Antony, F.; Gensch, C.
Commissioned by: Liebherr-Hausgeräte Ochsenhausen GmbH

GLOBAL VALUE: Assessing the Impacts of Multinational Corporations on Global Development and Value Creation (2017)

See also: <http://www.global-value.eu/>

Wolff, F.; Brunn, C.; Heyen, D.; Klink, D.; Prakash, S.; Scherf, C.; Teufel, J.; in cooperation with Aalto University; BRAC; Center for Evaluation; Central European University; Copenhagen Business School; Ludwig Boltzmann Institute for Human Rights; Sokoine University of Agriculture, Tanzania; Sustainability; University of Nottingham; WU (Vienna University of Economics and Business)
Commissioned by: European Commission, DG Research and Innovation

Relevance of the sustainability aspects in ‚Industry 4.0‘ (2016)

Prakash, S.; Hilbert, I.
Commissioned by: Oeko-Institut e.V.

Technical support to the development of BEMPs in 4 EMAS priority sectors. Lot 1: Electric and electronic equipment manufacturing (2016)

Möller, M.; Baron, Y.
Commissioned by: European Commission, DG Research and Innovation

Assessment of the recyclability of a flat screen TV and a fridge-freezer (2016)

Antony, F.
Commissioned by: Vaillant Deutschland GmbH & Co. KG

Savings potential of Miele washing machines with ‚PowerWash 2.0‘ technology as compared to equivalent appliances of competitors using the traditional technology (2016)

Rüdenauer, I.; Gensch, C.
Commissioned by: Miele & Cie. KG

Drawing up of a best practice guide for the project ‚Avoidance of food waste in facilities of the catering and foodservice sector‘ (2016)

Antony, F.; Gensch, C. in collaboration with Roehl, R.; in cooperation with a´verdis
Commissioned by: German Environment Agency (UBA)

Sustainability Assessment Standard Framework for the global ICT Industry (2016)

Prakash, S.; Manhart, A.; Prieß, R.; Schleicher, T. in collaboration with Winter, M.; Behrendt, C.; in cooperation with Stakeholder Reporting GmbH
Commissioned by: Global Enabling Sustainability Initiative (GeSI)

Drawing up a best practice guide and an event concept relating to ‚Strategies to successfully introduce organic food in the catering of municipalities (‚More organic food in municipalities‘)‘ (2016)

See also: www.biostaedte.de/mehr-bio-in-kommunen/das-projekt.html

Teufel, J.; Gröger, J.; Hermann, A. in collaboration with Roehl, R.; in cooperation with a´verdis
Commissioned by: City of Munich

‚Plastics‘ workshop for Waschbär (2015)

Prieß, R.; Blepp, M.

Commissioned by: Triaz Corporation (Waschbaer - the ecological mail order company)

Green Economy (2015)

Grießhammer, R.; Brohmann, B.; Brunn, C.; Förster, H.; Gensch, C.; Gsell, M.; Heyen, D.; Prieß, R.; Siemons, A.; Wolff, F.

Commissioned by: Oeko-Institut e.V.

Preparation of an environmental report for the German Environment Foundation (DBU) for the reference year 2013 (2015)

Antony, F.; Grießhammer, R.

Commissioned by: German Federal Environmental Foundation (DBU)

Sustainability standard in community catering – sub report ‚Kitchen Technology‘ (2015)

Gensch, C.; in cooperation with Martin-Luther-Universität Halle-Wittenberg

Commissioned by: German Federal Environmental Foundation (DBU)

Assessment of the product portfolio of a food retail company in terms of climate impact, and identification of the life cycles with climatic relevance on the basis of existing analyses and studies (2015)

Teufel, J.

Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)

The Utopia Changemaker Manifesto for SME - Improvement and Quantification of the Sustainability Performance and Communication of Enterprises (2015)

Grießhammer, R.; Brommer, E.; Brunn, C.

Commissioned by: German Federal Environmental Foundation (DBU)

Investigation of life time and replacement strategies of Miele household appliances (2014)

Gensch, C.; Blepp, M.; Schleicher, T.

Commissioned by: Miele & Cie. KG

Product Category Rule (PCR) Development for Green Coffee (2013)

Quack, D.; Liu, R.; Marquardt, M.

Commissioned by: Tchibo GmbH

Savings potentials thanks to the automatic TwinDos dosage in washing machines (2013)

Blepp, M.; Gensch, C.

Commissioned by: Miele & Cie. KG

Consulting service on the group-wide „Sustainability“ project (2013)

Gensch, C.; Möller, M.; Rausch, L.; Timpe, C.

Commissioned by: MVV Energie AG

Comparative climate footprint of motorhome travel – today and tomorrow (2013)

Bleher, D.; Baron, Y.; Bunke, D.; Möller, M.

Commissioned by: Caravanning Industry Association (CIVD)

Supporting Stadtwerke Karlsruhe (SWK) in their transformation towards a climate friendly municipal utility company and towards climate neutral products (2013)

Möller, M.; Antony, F.; Bleher, D.; Bracker, J.; Marquardt, M.; Timpe, C.

Commissioned by: Stadtwerke Karlsruhe

Advising the Rapunzel Naturkost GmbH on structure and design of the website ‚Veggie Guide‘ on the issue of climate and environmental impacts of nutrition (2013)

Teufel, J.; Stratmann, B.

Commissioned by: Rapunzel Naturkost GmbH

Evaluation of the PCF of table salt and formulation of PCF-related activity options for the Südsalz Corporation (2012)

Quack, D.; Stratmann, B.

Commissioned by: Südsalz GmbH

Comparison of frozen food with other types of presentation in terms of climate (2012)

Gensch, C.; Gattermann, M.; Marquardt, M.; Seum, S.

Commissioned by: Deutsches Tiefkühlinstitut e.V. (DTI)

Product Carbon Footprint of five selected cookie products (2011)

Teufel, J.; Gattermann, M.; Liu, R.

Commissioned by: Griesson - de Beukelaer GmbH & Co. KG

Savings potentials of washing machines with automatic dosing systems (2010)

Gensch, C.; Liu, R.

Commissioned by: Robert Bosch GmbH

Product Carbon Footprint of the Krombacher Pils 20 x 0,5 l returnable bottle crate (2010)

Gensch, C.; Liu, R.; Seum, S.

Commissioned by:

PROSA ProClimate - product related climate strategies of companies (2010)

Grießhammer, R.; Bleher, D.; Gensch, C.; Groß, R.; Hochfeld, C.; Möller, M.; Quack, D.; Seum, S.; in cooperation with Chemical Industries Basel (CIBa); Henkel AG & Co. KGaA; Primondo GmbH; TAZ GmbH & Co. Medien KG

Commissioned by: German Federal Ministry of Education and Research (BMBF)

Sustainability analysis of the product portfolio of the German deep-frozen products industry, and identification of strategic options for sustainable development (2010)

Teufel, J.; Gattermann, M.; Gensch, C.; Liu, R.

Commissioned by: Deutsches Tiefkühlinstitut e.V. (DTI)

CSR in retailing: Questionnaire for the jewellery&watches industry, toys industry and stationery industry (2010)

Prakash, S.; Manhart, A.

Commissioned by: Verbraucherinitiative e.V.

LCA of coffee brewing: A comparative analysis of the potential environmental impacts of different ways of coffee brewing (2010)

Stratmann, B.; Liu, R.; Quack, D.

Commissioned by: Bodum GmbH

9. Methodology

9.1. Methodology development and standardization

eco:digit - Enabling green Computing and digital Transformation *(in progress)*

See also: <https://gi.de/aktuelles/projekte/eco-digit>

Gröger, J.; Behrens, F.; Bunke, D.; Gensch, C.; Liu, R.

Funded by: German Aerospace Center - Project Management Agency

Product Environmental Footprint – Further development and application *(in progress)*

Gensch, C.; Antony, F.; Fischer, C.; Gascon Castellero, L.; Graulich, K.; Köhler, A.; Liu, R.; Prieß, R.; Rüdener, I.; Stuber-Rousselle, K.; Teufel, J. in collaboration with Grahl, B.; Detzel, A.; Busch, Mirkam, Kauertz, B.; Markwardt, S.; Vogt, R.; Wellenreuther, F.; Gül, S.; Kerkhof, A.; in cooperation with ECOFYS; Institute for Energy and Environmental Research (ifeu); Institute for Energy and Environmental Research Heidelberg GmbH (ifeu); Integrah AS

Commissioned by: German Environment Agency (UBA)

Model Germany - Circular Economy - Modelling ecological and economic impacts of Circular Economy in Germany *(2023)*

Prakash, S.; Antony, F.; Betz, J.; Dehoust, G.; Gascon Castellero, L.; Gensch, C.; Köhler, A.; Liu, R.; López, V.; Löw, C.; Schön-Blume, N.; Stuber-Rousselle, K.; Teufel, J. in collaboration with Jacob, K.; Fiala, V.; Herbst, A.; Loibl, A.; Pfaff, M.; in cooperation with cyclos GmbH; Fraunhofer Institute for Systems and Innovation Research (Fraunhofer ISI); Freie Universität Berlin

Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)

Model Germany Circular Economy - Policy Blueprint *(2023)*

Prakash, S.; Antony, F.; Betz, J.; Dehoust, G.; Gascon Castellero, L.; Gensch, C.; Köhler, A.; Löw, C.; Manhart, A.; Teufel, J. in collaboration with Jakob, K.; Fiala, V.; Pfaff, M.; Herbst, A.; Loibl, A.; in cooperation with Fraunhofer Institute for Systems and Innovation Research (Fraunhofer ISI); Freie Universität Berlin

Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)

Model Germany Circular Economy - Feasibility Study *(2022)*

Prakash, S.; Antony, F.; Betz, J.; Dehoust, G.; Gensch, C.; Löw, C.; Stuber-Rousselle, K.; Teufel, J. in collaboration with Jacob, K.; Herbst, A.; Pfaff, M.; Loibl, A.; in cooperation with Fraunhofer Institute for Systems and Innovation Research (Fraunhofer ISI); Freie Universität Berlin

Commissioned by: World Wide Fund For Nature International Germany (WWF Germany)

Further development of a sustainability assessment method based on the sustainability goals of the United Nations (Agenda 2030) *(2021)*

Möller, M.; Antony, F.; Grießhammer, R.; Gröger, J.; Prieß, R. in collaboration with Eberle, U.; Wenzig, J.; in cooperation with Prof. Dr. Rainer Grießhammer; Zentrum für Nachhaltige Unternehmensführung (ZNU)

Funded by: German Federal Ministry of Education and Research (BMBF)

Development of a consistent methodology for estimating the Carbon Footprint of the Berlin senate and district administration *(2017)*

Antony, F.; Kenkmann, T.; Winger, C.

Commissioned by:

Policy for Sustainable Aquaculture 2050 - Recommendations from the Target Perspective (2018)

Antony, F.; Möller, M.; Teufel, J.
Commissioned by: Oeko-Institut e.V.

Methods and tools of the eco design of plastics packagings (2015)

Möller, M.; Köhler, A.; Moritz, S.; in cooperation with Technische Universiteit Delft
Commissioned by: German Association for Plastics Packagings and Films

Review of the LCA methodology developed by the German Federal Environment Agency (UBA) (2016)

Gensch, C. in collaboration with Giegrich, J.; et al.; in cooperation with Institute for Energy and Environmental Research (ifeu); Integrah AS
Commissioned by: German Environment Agency (UBA)

Environmental information on products and services - requirements, tools, examples (2014)

Gensch, C.
Commissioned by: The Voice of German Industry (BDI)

9.2. Methodology application

Determination of basics and evaluation methods of a life cycle assessment of the winter road maintenance service (in progress)

Quack, D.; Liu, R. in collaboration with Götzfried, F.; Gartiser, S.; Hafner, C.; in cooperation with Hydrotox GmbH; Salt Research + Consulting
Commissioned by: Federal Highway Research Institute

Creation of a calculation tool for the carbon footprint of electronic publications (2023)

Gröger, J.
Commissioned by: German Newspaper Publishers and Digitalpublishers Association

Update of the 2015 Material System Analyses (in progress)

Baron, Y.; Betz, J.; Bulach, W.; Dietrich, A.; Gascon Castellero, L.; Lüdemann, Y.; Magrini, C.; in cooperation with In Extenso Innovation Croissance; Institute for Energy and Environmental Research (ifeu); Ramboll Germany GmbH
Commissioned by: European Commission, DG for Internal Market, Industry, Entrepreneurship and SMEs

Ex-post evaluation of benefits and costs of environmental legislation (2021)

Hünecke, K.; Baron, Y.; Löw, C.; Schumacher, K. in collaboration with Bauer, C.; Keil, S.; Schweizer, P.; in cooperation with Centre for European Economic Research; German Research Institute for Public Administration (FOEV)
Commissioned by: German Environment Agency (UBA)

Life cycle assessment as well as cost-benefit analysis of two pilot aquaponics systems (2018)

Antony, F.; Baron, Y.
Commissioned by: Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB)

Study on the Energy Saving Potential of Increasing Resource Efficiency (2016)

See also: http://ec.europa.eu/environment/enveco/resource_efficiency/pdf/final_report.pdf

Mehlhart, G.; Antony, F.; Bergmann, T.; Hay, D.; Jenseit, W.; Köhler, A.; Möller, M.; Mottschall, M.; Sutter, J. in collaboration with Herzeg, M.; Bakas, I.; Bilsen, V.; Debergh, P.; Rynikiewicz, C. F.; Mashkina, O.; Mikkola, N.; Meindert, L.; Vermeulen, J.; in cooperation with Copenhagen Resource Institute (CRI); Ecorys

Commissioned by: European Commission, DG Environment

Life-cycle comparison of reusable and non-reusable crockery for mass catering in the USA (2017)

Antony, F.; Gensch, C.

Commissioned by: Meiko Maschinenbau GmbH & Co. KG

Round Table 'Improvement of the Groundwater Situation in the Hessisches Ried' - Scientific Monitoring (2014)

Alt, S.; Asmus-Miu, D.; Baron, Y.; Bertram, M.; Brommer, E.; Claus, M.; Gensch, C.; Spieth-Achnich, A.; in cooperation with Martin Bertram; NW Forstw. Versuchsanstalt

Commissioned by: Hessisches Ministerium f. Wirtschaft, Verk. U. L.

Scoping LCA comparing multiple way bedpans with disposable bedpans made of bioplastics (2013)

Antony, F.; Blepp, M.; Gensch, C.

Commissioned by: Meiko Maschinenbau GmbH & Co. KG

Consultation for the Ministry for Climate Protection, Environment, Agriculture, Nature Conservation and Consumer Protection of the German State of North Rhine-Westphalia in connection with the setup of the ad-hoc working group on Product Life Cycle Assessment within the climate protection plan of the state of North Rhine-Westphalia (2014)

Gensch, C.

Commissioned by: Ministry for Climate Protection, Environment, Agriculture, Conservation and Consumer Protection of the State of North Rhine-Westphalia

Comparative life cycle assessment of packaging systems for gas heaters (2010)

Möller, M.; Blepp, M.; Liu, R.

Commissioned by: Vaillant Deutschland GmbH & Co. KG

9.3. Critical reviews

Participation in a review panel for a life cycle assessment study (2022)

Köhler, A.

Commissioned by: Tchibo GmbH

City of Freiburg: Assessment of the environmental performance of acetylated wood (2015)

Antony, F.; Blepp, M.; Heyen, D.; Moch, K.

Commissioned by: City of Freiburg, Environmental Protection Agency

Critical Review of a comparative LCA on printing processes with particular reference to a technical innovation (2013)

Gensch, C.; Liu, R.

Commissioned by: Henkel AG & Co. KGaA

Accompanying Critical Review of a Life Cycle Assessment Study on High-Performance Fabrics (2012)

Möller, M.; Gensch, C.; Liu, R.

Commissioned by: W.L. GORE & Associates GmbH

Critical review of a life cycle analysis study on tomato grown in Morocco (2011)

Gensch, C.; Moch, K.

Commissioned by: Azura Group - Disma International

Publications relating to methodology

Quack, D. (2023): Ökobilanzierung des Winterdienstes. Tagungsband zum Kolloquium Straßenbetrieb 2023, 19. – 20.09.2023 in Karlsruhe, Forschungsgesellschaft für Straßen- und Verkehrswesen (FGSV) (Hg.).