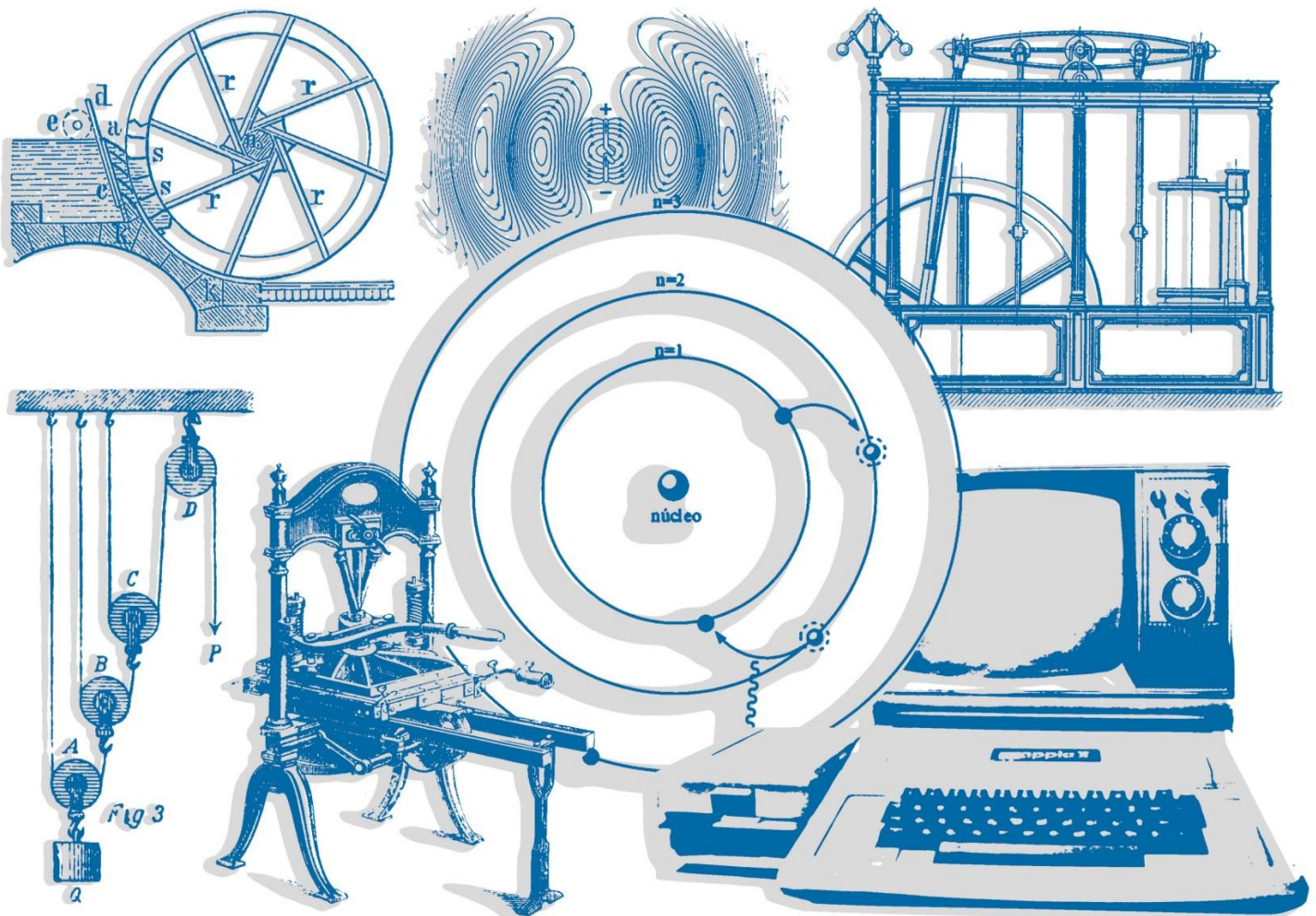


# References

Energy & Climate  
March 2020



## 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.

Our key clients are ministries and federal agencies, industrial enterprises and the European Union. In addition, the institute is commissioned by non-governmental organisations and environmental associations. We collaborate with research institutions and are active in national and international networks such as in Ecornet (Ecological Research Network).

Oeko-Institut employs more than 170 staff, including 120 researchers at three locations in Germany – Freiburg, Darmstadt and Berlin.

## Energy & Climate

The most important task of the Energy & Climate Protection Division is to reduce the ecological and nuclear risks arising from energy use. The scientists design an energy system without nuclear energy, which instead is based on an economic use of energy (energy saving, combined heat and power generation, etc.) and on the use of low-carbon and renewable energy sources.

In addition, the staff members work on various climate protection issues. In this context, they develop analyses of potential, emission and material flow balances, emission inventories and projections as well as energy and climate protection scenarios.

The work spectrum of the department also includes the evaluation of energy and climate policy instruments, such as the flexible mechanisms of the Kyoto Protocol, electricity certification or combined heat and power quota models. In addition, the researchers work on the sustainable development of cities and regions by promoting and accompanying programs such as Local Agenda 21. However, the energy experts conduct research not only at national level but also in the European Union, Eastern Europe, the USA and some countries in Africa, Latin America and South East Asia.

Engineers, natural scientists, economists and social scientists work closely together in the team.

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## 1. Global climate protection policy

### **Supporting Fluorinated Greenhouse Gas Policies, Lot 1: International Fluorinated Greenhouse Gas/Ozone Depleting Substances Issues and Dissemination** *(in progress)*

Jörß, W.; Anderson, G.; Ludig, S.; Schneider, L.; in cooperation with Öko-Recherche  
*Commissioned by: European Commission, DG Climate Action*

### **Capacity Building Emissions Trading to support bilateral cooperation** *(in progress)*

Healy, S.; Anderson, G.; Cames, M.; Cludius, J.; Gores, S.; Graichen, J.; Graichen, V.; Hermann, H.; Herold, A.; Jörß, W.; Keimeyer, F.; Loreck, C.; Matthes, F.; Siemons, A.; Zell-Ziegler, C.; in cooperation with adelphi consult GmbH; DIW Econ GmbH; Ecologic Institut gGmbH; FutureCamp Holding GmbH

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

### **Development of a sectoral market based approach in developing countries** *(in progress)*

Graichen, J.; Cames, M.; Harthan, R.; in cooperation with NewClimate – Institute for Climate Policy and Global Sustainability gGmbH

*Commissioned by: German Environment Agency (UBA)*

### **Analysis, aggregation and assessment of Member States' information on climate finance received under the Monitoring Mechanism Regulation (MMR)** *(in progress)*

Siemons, A.; Anderson, G.; Cook, V.; Fallasch, F.; Moosmann, L.; Schneider, L.; in cooperation with Ricardo Energy & Environment (Ricardo-AEA); Trinomics B.V.

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### **Accelerated global climate protection by 2030** *(in progress)*

Böttcher, H.; Cames, M.; Reise, J.; Scheffler, M.; Siemons, A.; Wiegmann, K.; in cooperation with Ecologic Institut gGmbH

*Commissioned by: German Environment Agency (UBA)*

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Siemons, A.; Cames, M.; Gores, S.; Graichen, J.; Graichen, V.; Schneider, L.

*Commissioned by: Oeko Institut e.V.*

**The Global Stocktake under the Paris Agreement: Design, methodology and process (including a testing of methodology for selected states) (in progress)**

Siemons, A.; Förster, H.; Healy, S.; Herold, A.; Moosmann, L.; Nissen, C.; in cooperation with Potsdam Institut für Klimafolgenforschung (PIK); Wuppertal Institut für Klima, Umwelt, Energie gGmbH

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Graichen, J.; Cames, M.; Healy, S.; in cooperation with INFRAS AG; Lambert Schneider; Stephanie La Hoz Theuer; Stockholm Environment Institute Boston (SEI-US)

*Commissioned by: German Environment Agency (UBA)*

**Scientific support of BMU related to transparency in the Paris Agreement (Article 13 reporting and review) (in progress)**

Moosmann, L.; Anderson, G.; Harthan, R.; Healy, S.; Herold, A.; Herrmann, L.; Jörß, W.; Schneider, L.; Siemons, A.

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

**Review of the GIZ Accounting manual and tool (in progress)**

Harthan, R.; Schneider, L.

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**Framework agreement concerning analysis and method development for Article 6 of the Paris Agreement (in progress)**

Schneider, L.; Cames, M.; Healy, S.; Siemons, A.; in cooperation with Carbon Limits

*Commissioned by: Swedish Energy Agency*

**Greenhouse gas removals versus e-fuels in aviation (in progress)**

Cames, M.; Healy, S.

*Commissioned by: Transport & Environment*

**Consultancy and support for the implementation of the German "Alliance for development and climate" (in progress)**

Schneider, L.

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**Developing Recommendations for Allocating Emissions**

**Rights for a Mexican Emissions Trading System** *(in progress)*

Healy, S.; Cludius, J.; Graichen, J.  
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**Capacity building for the establishment of emissions trading schemes (ETS) in China (ETS in China)** *(in progress)*

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Graichen, J.; Böttcher, H.; Förster, H.; Graichen, V.; Greiner, B.; Harthan, R.; Herold, A.; Schumacher, K.; Siemons, A.; Zell-Ziegler, C.; in cooperation with Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)

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Cames, M.; Healy, S.; in cooperation with Andrew Howard; Kelley Kizzier; Lambert Schneider; Stephanie La Hoz Theuer

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**Study on methods and considerations for the determination of greenhouse gas emissions reduction objectives for international shipping (2018)**

Cames, M.; Graichen, J.; Kasten, P.; in cooperation with CE Delft

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**Accounting for internationally linked ETS under Article 6.2 of the Paris Agreement (2018)**

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**Briefing on "Key issues at stake at the 71st session of the IMO Marine Environment Protection Committee (MEPC/71)" (2017)**

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**Expert support for international climate negotiations on air and maritime transport (2017)**

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**Climate protection in maritime transportation (2017)**

Keimeyer, F.; Cames, M.; in cooperation with CE Delft; MARENA; Universität Rostock  
*Commissioned by: German Environment Agency (UBA)*

**Initial assessment of project proposals in 2016 for Germany's International Climate Initiative (2016)**

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**Evaluating the GHG mitigation contribution of global, regional and national initiatives beyond the UNFCCC (2016)**

Graichen, J.; Healy, S.; Siemons, A.; in cooperation with Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); NewClimate – Institute for Climate Policy and Global Sustainability gGmbH  
*Commissioned by: German Environment Agency (UBA)*

**Support for the introduction of a greenhouse gas national inventory system (GHG-NIS) in Morocco (2016)**

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*Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)*

**Scientific support to the German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety with regard to transparency of reporting and review under the UNFCCC (2016)**

Herold, A.; Anderson, G.; Harthan, R.; Herrmann, L.; Siemons, A.  
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**Preparation of the 2nd EU biennial report under the UNFCCC (2016)**

Jörß, W.; Anderson, G.; Cook, V.; Förster, H.; Gores, S.; Greiner, B.; Healy, S.; Herold, A.; Schumacher, K.; Siemons, A.; in cooperation with CAOS – Borboletas e Sustentabilidade; Umweltbundesamt Wien  
*Commissioned by: European Commission, DG Climate Action*

**Briefing on "Main options for a GMBM at ICAO during its High-level Meeting in May 2016" (2016)**

Cames, M.; Cook, V.  
*Commissioned by: European Union – European Parliament*

**Going beyond 40% – options to ensure LULUCF maintains the high environmental integrity of the EU climate and energy package (2016)**

Böttcher, H.; Graichen, J.  
*Commissioned by: Fern*

**Briefing on "Key issues at stake at the 69th session of the IMO Marine Environment Protection Committee (MEPC/69)" (2016)**

Cames, M.; Cook, V.; Graichen, J.; in cooperation with CE Delft  
*Commissioned by: European Union – European Parliament*

**Instruments to increase global mitigation efforts before 2020 – economic and policy implications for selected industrial and important developing countries** (2016)

Schumacher, K.; Healy, S.; Zell-Ziegler, C.; in cooperation with Aether – Oxford Centre for Innovation (Aether); ECOFYS; Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)

*Commissioned by: German Environment Agency (UBA)*

**Briefing on "Issues at stake at the 10th session of the ICAO Committee on Aviation Environmental Protection (CAEP10)"** (2016)

Cames, M.; Graichen, J.

*Commissioned by: European Union – European Parliament*

**Capacity building on emissions trading to support bilateral cooperations in 2013 – 2015** (2016)

Repenning, J.; Cames, M.; Cludius, J.; in cooperation with adelphi consult GmbH

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

**How additional is the Clean Development Mechanism? Analysis of the application of current tools and proposed alternatives** (2016)

Cames, M.; Cook, V.; Harthan, R.; Healy, S.; in cooperation with Anja Kollmuss; INFRAS AG; Lambert Schneider; Randall Spalding-Fecher; Stockholm Environment Institute Boston (SEI-US)

*Commissioned by: European Commission, DG Climate Action*

**(Good) Practice study on GHG-inventories for the waste sector in NA1-countries** (2015)

Graichen, J.; Herold, A.; Scheffler, M.

*Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)*

**Review of guiding questions for accounting of INDCs** (2015)

Harthan, R.; Siemons, A.

*Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)*

**In-depth analysis "Emission reduction targets for international aviation and shipping"** (2015)

Cames, M.; Cook, V.; Graichen, J.; Siemons, A.

*Commissioned by: European Union – European Parliament*

**Reduction commitments and fair burden sharing in a new comprehensive climate protection agreement post-2020 ("post-2020 targets")** (2015)

Schumacher, K.; Cames, M.; Herold, A.; Siemons, A.; in cooperation with Climate Analytics; ECOFYS; Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Wuppertal Institut für Klima, Umwelt, Energie gGmbH

*Commissioned by: German Environment Agency (UBA)*

**Support in the preparation of the first GHG inventory and BUR in the Dominican Republic** (2015)

Harthan, R.; Scheffler, M.; Siemons, A.

*Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)*

**Analysis and further development of climate measures in maritime transport, taking into account current developments on both international and European level (2015)**

Graichen, V.; Cames, M.; Keimeyer, F.; in cooperation with CE Delft; RA Zimmermann, Gretz, Trautmann, Bäuerle; Stefan Seum Consulting  
*Commissioned by: German Environment Agency (UBA)*

**Development of economic climate protection instruments for international aviation (2015)**

Gores, S.; Cames, M.; Graichen, V.; in cooperation with CE Delft  
*Commissioned by: German Environment Agency (UBA)*

**Provision of expertise in the field of Intended Nationally Determined Contributions for Vietnam – Energy and LULUCF sectors (2015)**

Harthan, R.; Böttcher, H.  
*Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)*

**Results-oriented financing of climate protection measures by means of purchasing carbon credits – Options for ensuring a long-term climate impact (2015)**

Cames, M.; Cook, V.; in cooperation with Carbon Limits; Lambert Schneider  
*Funded by: Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)*

**Expert support for National Contributions Workshop: Challenges for implementation and monitoring INDCs – Second Workshop for Latin America and the Caribbean (2015)**

Herold, A.  
*Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)*

**Support in calculating GHG emission projections in Ghana (2015)**

Harthan, R.; Siemons, A.  
*Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)*

**Training on "MRV of NAMAs" in Vietnam (2015)**

Harthan, R.  
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**Next generation policy instruments for renewable heating and cooling (RES-H-NEXT) (2015)**

Bürger, V.; in cooperation with Meister Consultants Group  
*Funded by: IEA-Renewable Energy Technology Deployment*

## 2. European energy and climate protection policy

**Support to the Energy Union Governance process, including for the assessment of the Integrated National Energy and Climate Plans (in progress)**

Förster, H.; Emele, L.; Gores, S.; Graichen, J.; Koch, M.; Moosmann, L.; Noka, V.; Winger, C.; in cooperation with COWI Denmark Holding A/S; Flemish Institute of Technologic Research (VITO); Ricardo Energy & Environment (Ricardo-AEA); Umweltbundesamt Wien  
*Commissioned by: European Commission, DG Energy*

**Requirements and possibilities for an EU-wide standardisation or harmonisation of guarantees of origin and disclosure systems (in progress)**

Seebach, D.; Bracker, J.; Timpe, C.; in cooperation with Becker Büttner Held PartGmbH  
*Commissioned by: German Environment Agency (UBA)*

**Further development of EU ETS in the aviation sector in the light of the implementation of a global market-based measure by the ICAO** *(in progress)*

Graichen, V.; Cames, M.; Gores, S.; Graichen, J.; Healy, S.; in cooperation with CE Delft; Lambert Schneider; Transport Analysis and Knowledge Systems (TAKS)  
*Commissioned by: German Environment Agency (UBA)*

**Support to the Commission for the determination of the Carbon Leakage List post-2020 under the EU Emission Trading System** *(in progress)*

Graichen, V.; Cludius, J.; Healy, S.; Rausch, L.; Schumacher, K.; in cooperation with Trinomics B.V.  
*Commissioned by: European Commission, DG Climate Action*

**Structural development of the EU ETS after 2020** *(in progress)*

Graichen, V.; Cludius, J.; Emele, L.; Graichen, J.; Haller, M.; Healy, S.; Loreck, C.; Matthes, F.; Mendelewitsch, R.; Ritter, D.; Schumacher, K.; in cooperation with Deutsches Institut für Wirtschaftsforschung (DIW); Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)  
*Commissioned by: German Environment Agency (UBA)*

**Empirical analysis of company strategies and success factors in EU emissions trading on the basis of the EUTL transaction data set for 2005-13** *(in progress)*

Cludius, J.; Nissen, C.; in cooperation with Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)  
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**Contract to support the preparation of implementing and delegated acts in the climate field under the Governance Regulation** *(in progress)*

Moosmann, L.; Anderson, G.; Böttcher, H.; Jörß, W.; Siemons, A.; in cooperation with Flemish Institute of Technologic Research (VITO); Ricardo Energy & Environment (Ricardo-AEA); Trinomics B.V.; Wageningen Environmental Research (Alterra)  
*Commissioned by: European Commission, DG Climate Action*

**Analysis of competitiveness and carbon leakage risk of European industries** *(in progress)*

Schumacher, K.; Cludius, J.; Graichen, V.; Healy, S.; in cooperation with CE Delft; Ecologic Institut gGmbH  
*Commissioned by: German Environment Agency (UBA)*

**Annual review of Member States' greenhouse gas inventories under the Effort Sharing Decision 2018** *(in progress)*

Anderson, G.; in cooperation with Umweltbundesamt Wien  
*Commissioned by: European Commission, DG Climate Action*

**Constitutional and European legal issues surrounding the further development of the EU Emissions Trading Directive** *(in progress)*

Keimeyer, F.; Cames, M.; Gailhofer, P.; Graichen, V.; Hermann, H.; Jörß, W.; Schütte, S.  
*Commissioned by: German Environment Agency (UBA)*

**Scientific analyzes on the implementation and further development of the EU climate protection framework by 2030** *(in progress)*

Gores, S.; Böttcher, H.; Förster, H.; Graichen, J.; Jörß, W.; Liste, V.; Moosmann, L.; Nissen, C.; Rausch, L.; Schneider, L.; Siemons, A.; Zell-Ziegler, C.

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

**GSDR Support – preparation and support of the German contribution to the Global Sustainable Development Report (GSDR)** *(in progress)*

Wolff, F.; Kampffmeyer, N.; Loreck, C.; Prakash, S.; Scherf, C.; in cooperation with adelphi consult GmbH

*Commissioned by: German Environment Agency (UBA)*

**EU Ambition 2030** *(in progress)*

Matthes, F.

*Commissioned by: European Climate Foundation (ECF)*

**Support for the assessment of the Long-Term Strategies of EU Member States** *(in progress)*

Förster, H.; Emele, L.; Gores, S.; Siemons, A.; Winger, C.; Zell-Ziegler, C.; in cooperation with Flemish Institute of Technologic Research (VITO); Institute for European Environmental Policy (IEEP); Ricardo Energy & Environment (Ricardo-AEA); Trinomics B.V.

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**Evaluation and further development of the EU emissions trading scheme from an economic perspective for the period after 2020 (EU-ETS-7)** *(in progress)*

Graichen, V.; Förster, H.; Graichen, J.; Healy, S.; Repenning, J.; Schumacher, K.; in cooperation with Deutsches Institut für Wirtschaftsforschung (DIW); Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)

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**Standardization bodies for the Renewable Energy Directive: CEN/DIN “Biodiversity and environmental aspects” part of the standard** *(in progress)*

Hennenberg, K.

*Commissioned by: Federal Agency for Nature Conservation (BfN)*

**Verification of the suitability of the method proposed to produce early CO<sub>2</sub> emission estimates (2019 – 2021)** *(in progress)*

Scheffler, M.; Anderson, G.; Cook, V.; Emele, L.; Nissen, C.

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**Modelling of emissions trading in the context of EU energy and climate measures: a market and feasibility study for ETS-specific models** *(in progress)*

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Herold, A.; Anderson, G.; Harthan, R.; in cooperation with Umweltbundesamt Wien

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**Climate protection and Implementation of the EU Energy Union – Further development of EU climate policies** *(in progress)*

Bürger, V.; Bauknecht, D.; Böttcher, H.; Braungardt, S.; Heinemann, C.; Hennenberg, K.; Hermann, H.; Koch, M.; Ritter, D.; Schumacher, K.; Seebach, D.; Vogel, M.; in cooperation with adelphi consult GmbH; Stiftung Umweltenergierecht

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**Achieving of targets and ambition raising with EU climate protection legislation in medium (2030) as well as in the long term (2050+) perspective** *(in progress)*

Gores, S.; Böttcher, H.; Förster, H.; Graichen, J.; Liste, V.; Nissen, C.; Reise, J.; Siemons, A.; Zell-Ziegler, C.; in cooperation with Ecologic Institut gGmbH

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

**European Topic Centre on Climate change Mitigation and Energy (2019 – 2021)** *(in progress)*

Gores, S.; Anderson, G.; Böttcher, H.; Emele, L.; Förster, H.; Graichen, J.; Graichen, V.; Harthan, R.; Healy, S.; Jörß, W.; Ludig, S.; Moosmann, L.; Nissen, C.; Reise, J.; Scheffler, M.; Siemons, A.; Winger, C.; in cooperation with Aether – Oxford Centre for Innovation (Aether); Czech Hydrometeorological Institute (CHMI); EMISIA; Flemish Institute of Technologic Research (VITO); Interprofessional Technical Centre for Studies on Air Pollution (CITEPA); National Institute for Public Health and the Environment (RIVM), Netherlands Environmental Assessment Agency (PBL), Norwegian Institute for Air Research (NILU), Öko-Recherche, Umweltbundesamt Wien

*Commissioned by: European Environment Agency (EEA)*

**Renewable Space Heating under the Revised Renewable Energy Directive** *(in progress)*

Braungardt, S.; Bürger, V.; in cooperation with Technische Universität Wien

*Commissioned by: European Commission, DG Energy*

**Supporting Fluorinated Greenhouse Gas Policie, Lot 3: HFC Price and Phase-down monitoring** *(in progress)*

Jörß, W.; Anderson, G.; Ludig, S.; in cooperation with Interprofessional Technical Centre for Studies on Air Pollution (CITEPA); Öko-Recherche

*Commissioned by: European Commission, DG Climate Action*

**Analysis and aggregation of Member States' information on climate finance** *(in progress)*

Herold, A.; Siemons, A.; in cooperation with Ricardo Energy & Environment (Ricardo-AEA); Trinomics B.V.

*Commissioned by: European Commission, DG Climate Action*

**Capacity building to facilitate implementation of the Effort Sharing legislation, with focus on ex-post evaluation and policy lessons learned** *(in progress)*

Förster, H.; Gores, S.; Graichen, J.; Jörß, W.; Nissen, C.; Noka, V.; Scheffler, M.; Schumacher, K.; Wiegmann, K.; in cooperation with Flemish Institute of Technologic Research (VITO); Ricardo Energy & Environment (Ricardo-AEA); Wageningen University & Research

*Commissioned by: European Commission, DG Climate Action*

**Supporting Fluorinated Greenhouse Gas Policies, Lot 2: Domestic Support** *(in progress)*

Jörß, W.; Anderson, G.; Ludig, S.; Rausch, L.; in cooperation with COWI Denmark Holding A/S; Interprofessional Technical Centre for Studies on Air Pollution (CITEPA); Öko-Recherche; verico SCE (Societas Cooperativa Europaea)

*Commissioned by: European Commission, DG Climate Action*

**Effectiveness of EU emissions trading: Identification and analysis of the main drivers of emissions development in selected sectors and countries** *(in progress)*

Matthes, F.; Emele, L.; Graichen, J.; Graichen, V.; Mendelevitch, R.; in cooperation with INFRAS AG

*Commissioned by: German Environment Agency (UBA)*

**Preparation of a handbook on relevant data concepts in the EU ETS** *(in progress)*

Graichen, V.; Emele, L.; Gores, S.; Harthan, R.; Jörß, W.; Nissen, C.

*Commissioned by: German Environment Agency (UBA)*

**Nature protection and advanced biofuels** *(2020)*

Böttcher, H.; Hennenberg, K.; Hermann, A.; Hünecke, K.; Keimeyer, F.; Reise, J.; Schütte, S.; Wiegmann, K.; Wolff, F.; in cooperation with Bosch & Partner GmbH; Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)

*Funded by: Federal Agency for Nature Conservation (BfN)*

**Service contract for supporting F-gas policies** *(2019)*

Jörß, W.; Anderson, G.; Ludig, S.; Schumacher, K.; in cooperation with Heat International; Interprofessional Technical Centre for Studies on Air Pollution (CITEPA); National Institute for Public Health and the Environment (RIVM); Öko-Recherche; Prof. Michael Kauffeld (MIKADO); Royal Institute of Technology (KTH)

*Commissioned by: European Commission, DG Climate Action*

**Verification of the suitability of the method proposed to produce early CO<sub>2</sub> emission estimates (2016 – 2018)** *(2019)*

Scheffler, M.; Anderson, G.; Cook, V.; Emele, L.; Herold, A.

*Commissioned by: European Commission, Directorate General ESTAT*

**Low-Carbon Europe: Development of ambitious climate protection scenarios, taking into account security of energy supply, sustainability and competitiveness** *(2019)*

Matthes, F.; Blanck, R.; Böttcher, H.; Greiner, B.; Hesse, T.; Ludig, S.; Repenning, J.; Scheffler, M.; Wiegmann, K.; Zimmer, W.; in cooperation with Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)

*Commissioned by: German Environment Agency (UBA)*

**Service Contract for technical work to support the implementation of Regulation (EU) No 517/2014, including preparations for a withdrawal of the United Kingdom from the EU** *(2019)*

Jörß, W.; Anderson, G.; Ludig, S.; in cooperation with Öko-Recherche

*Commissioned by: European Commission, DG Climate Action*

**Effort Sharing Decision (ESD) Review 2019** *(2019)*

Harthan, R.; Anderson, G.; in cooperation with Umweltbundesamt Wien

*Commissioned by: European Commission, DG Climate Action*

**In-depth analysis on EU Environment and Climate Change Policies - State of play, current and and future challenges (2019)**

Cames, M.; Cook, V.; Gores, S.; Graichen, J.; Nissen, C.; Siemons, A.

*Commissioned by: European Union – European Parliament*

**Climate Recon 2050: Dialogues on Pathways and Policy – Intra-EU Exchange on Long-term Climate Strategies (2019)**

Emele, L.; in cooperation with Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Economico Sostenibile (ENEA); Association négaWatt (négaWatt); DTU Management Engineering, Technical University of Denmark (DTU); Ecologic Institut gGmbH; Energiaklub Climate Policy Institute and Applied Communications Association (Energiaklub), Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI), Fundacja Warszawski Instytut Studiów Ekonomicznych i Europejskich (WiseEuropa), Institute for Sustainable Development and International Relations

*Commissioned by: Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)*

**Evaluating EU import data for HFCs from different sources to support the implementation of the F-gas Regulation (2018)**

Anderson, G.; Greiner, B.; Jörß, W.; Scheffler, M.

*Commissioned by: European Commission, DG Climate Action*

**Support the public consultation for the preparation of the Strategy for Long Term EU Greenhouse gas emissions reduction (2018)**

Anderson, G.; Moosmann, L.; in cooperation with Trinomics B.V.

*Commissioned by: European Commission, DG Environment*

**Efficiency and effectiveness of the EU ETS – extended analyses (2018)**

Schumacher, K.; Cludius, J.; Loreck, C.; in cooperation with Deutsches Institut für Wirtschaftsforschung (DIW); Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)

*Commissioned by: German Environment Agency (UBA)*

**Maintenance and development of internet database with renewable energies support schemes and related information (RES Legal Europe maintenance) (2018)**

Bauknecht, D.; Heinemann, C.; Vogel, M.; in cooperation with Eclareon

*Commissioned by: European Commission, DG Energy*

**European Topic Centre on Air Pollution and Climate Change Mitigation (2014 – 2018) (2018)**

Herold, A.; Anderson, G.; Böttcher, H.; Cludius, J.; Cook, V.; Emele, L.; Förster, H.; Gores, S.; Graichen, J.; Graichen, V.; Greiner, B.; Harthan, R.; Healy, S.; Hermann, H.; Jörß, W.; Ludig, S.; Moosmann, L.; Nissen, C.; Rausch, L.; Scheffler, M.; Schumacher, K.; Siemons, A.; Winger, C.; Zell-Ziegler, C.; in cooperation with Aether – Oxford Centre for Innovation (Aether); Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC); Czech Hydrometeorological Institute (CHMI); EMISIA; Flemish Institute of Technologic Research (VITO); National Institute for Public Health and the Environment (RIVM), Nationales Institut für Industriegegenden und Risiken (INERIS), Netherlands Environmental Assessment Agency (PBL), Norwegian Institute for Air Research (NILU), Öko-Recherche, Specialised consultancy optimising the technical knowledge of environmental assessment to provide real solutions (4Sfera Innova), Umweltbundesamt Wien, Universitat Autònoma de Barcelona (UAB)

*Funded by: European Environment Agency (EEA)*



**Contribution of Renewable Cooling to the Renewable Energy Target of the EU (update) (2018)**

Braungardt, S.; Bürger, V.

*Commissioned by: Netherlands Enterprise Agency*

**Analytical study: Energy and MFF (2018)**

Siemons, A.; Förster, H.; in cooperation with Trinomics B.V.

*Commissioned by: European Union – European Parliament*

**Extended scientific analysis for the development and implementation of the EU Effort Sharing (2018)**

Gores, S.; Böttcher, H.; Emele, L.; Förster, H.; Graichen, J.; Hermann, H.; Herold, A.; Rausch, L.

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

**Briefing on the Key Issues at Stake at the 72nd Session of the IMO Marine Environment Protection Committee (MEPC 72) (2018)**

Cames, M.

*Commissioned by: European Union – European Parliament*

**Characterisation of the European energy system (2018)**

Förster, H.; in cooperation with Trinomics B.V.

*Commissioned by: European Environment Agency (EEA)*

**The Vision Scenario for the European Union – 2017 Update for the EU-28 (2018)**

Matthes, F.; Blanck, R.; Cook, V.; Zimmer, W.

*Commissioned by: European Union – European Parliament*

**Analysis of the interactions between new market mechanisms and emissions trading systems (2017)**

Healy, S.; Cames, M.; Harthan, R.; in cooperation with adelphi consult GmbH; NewClimate – Institute for Climate Policy and Global Sustainability gGmbH

*Commissioned by: German Environment Agency (UBA)*

**Annual review of Member States' greenhouse gas inventories under the Effort Sharing Decision (2017)**

Herold, A.; Anderson, G.; Harthan, R.; in cooperation with Umweltbundesamt Wien

*Commissioned by: European Commission, DG Climate Action*

**Improving the accounting of renewable electricity in transport within the new EU Renewable Energy Directive (2017)**

Timpe, C.; Bracker, J.; Kasten, P.; Seebach, D.

*Commissioned by: Transport & Environment*

**Briefing for the ENVI delegation to Warsaw, Poland on 18-20 September 2017 (2017)**

Herold, A.; Gores, S.; Hermann, H.; Siemons, A.; in cooperation with Lidia Wojtal

*Commissioned by: European Union – European Parliament*

**Research study on European Energy Industry Investments (2017)**

Ludig, S.; Flachsbarth, F.; Graichen, V.; in cooperation with Aether – Oxford Centre for Innovation (Aether); Trinomics B.V.

*Commissioned by: European Union – European Parliament*

**Briefing for the ENVI delegation to the Porto Marghera refinery in Venice on 17 – 19 July (2017)**

Siemons, A.; Böttcher, H.; Hennenberg, K.

*Commissioned by: European Union – European Parliament*

**Study on the impact assessment for a new Directive mainstreaming deployment of renewable energy and ensuring that the EU meets its 2030 renewable energy target (2017)**

Bauknecht, D.; Bürger, V.; Haller, M.; Heinemann, C.; Ritter, D.; Vogel, M.; in cooperation with Artelys; Becker Büttner Held PartGmbH; Eclareon; Energy Research Centre of the Netherlands (ECN); Hannah Heinemann; Rebel Group; Stiftung Umweltenergierecht

*Commissioned by: European Commission, DG Energy*

**Scientific support in the analysis and further development of the implementation of the EU-Effort Sharing Decision (2017)**

Gores, S.; Böttcher, H.; Förster, H.; Graichen, J.; Graichen, V.; Hermann, H.; Herold, A.

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

**Analysis and aggregation of Member States' information on climate finance reported under Article 16 of the MMR for a report on EU climate finance provided to developing countries at COP22 (2017)**

Herold, A.; Herrmann, L.; Jörß, W.; Siemons, A.; in cooperation with Ricardo Energy & Environment (Ricardo-AEA); Trinomics B.V.

*Commissioned by: European Commission, DG Climate Action*

**Maximizing the impact of public sector procurement of renewable electricity via green public procurement guidelines (2017)**

Seebach, D.; Bracker, J.; Timpe, C.; in cooperation with ICLEI – Local Governments for Sustainability (ICLEI); Imug

*Commissioned by: European Commission, DG Energy*

**Study on technical assistance in realisation of the 2016 report on renewable energy, in preparation of the renewable energy package for the period 2020-2030 in the European Union (2017)**

Bauknecht, D.; Böttcher, H.; Bracker, J.; Bürger, V.; Cook, V.; Emele, L.; Förster, H.; Greiner, B.; Heinemann, C.; Hennenberg, K.; Hesse, T.; Hünecke, K.; Kasten, P.; Keimeyer, F.; Monteforte, M.; Ritter, D.; Schütte, S.; Seebach, D.; Vogel, M.; Wiegmann, K.; Winger, C.; Zell-Ziegler, C.; in cooperation with Center for Environmental System Research (CESR); Cowi; E3 Modelling; Eclareon; Observ'ER; Odile Bruder; Renewables Academy AG (RENAC)

*Commissioned by: European Commission, DG Energy*

**Assessing the status of electrification of the road transport passenger vehicles and potential future implications for the environment and European energy system (2016)**

Hacker, F.; Bracker, J.; Haller, M.; Kasten, P.; in cooperation with Netherlands Organisation for Applied Scientific Research (TNO); Transport and Mobility Leuven; Trinomics B.V.

*Commissioned by: European Environment Agency (EEA)*

**Verification of the suitability of the method proposed to produce early CO<sub>2</sub> emission estimates (2016)**

Herold, A.; Anderson, G.; Emele, L.; Rausch, L.; Scheffler, M.  
*Commissioned by: European Commission, Directorate General ESTAT*

**Assistance to Member States for effective implementation of the reporting requirements under the Kyoto Protocol to the United Nations Framework Convention on Climate Change (UNFCCC) (2016)**

Herold, A.; Harthan, R.; in cooperation with AEA Technology (AEAT); Aether – Oxford Centre for Innovation (Aether); Benviroc Oy (Finland); Interprofessional Technical Centre for Studies on Air Pollution (CITEPA); Netherlands Organisation for Applied Scientific Research (TNO); Öko-Recherche; Swedish Environmental Research Institute (IVL Sweden), Umweltbundesamt Wien, Universität Aarhus (Dänemark), Zoltan Somogyi (Hungary)  
*Commissioned by: European Commission, DG Climate Action*

**Support to the Commission and Member States on EU ETS monitoring, reporting, verification and accreditation (2016)**

Herold, A.; Gores, S.; in cooperation with SQ Consult B.V.  
*Commissioned by: European Commission, DG Climate Action*

**Study on climate finance reporting, including methodological issues, producing overview information and assessing emerging requirements (2016)**

Herold, A.; Greiner, B.; Healy, S.; Herrmann, L.; Siemons, A.; in cooperation with CAOS – Borboletas e Sustentabilidade  
*Commissioned by: European Commission, DG Climate Action*

**Climate benefits of material substitution by forest biomass and harvested wood products: perspective 2030 (2016)**

Böttcher, H.; Hennenberg, K.; in cooperation with Institut Technologique Forêt Cellulose Bois-construction Aménagement (FCBA); International Institute for Applied Systems Analysis (IIASA); Johann Heinrich von Thünen-Institut, Bundesforschungsinstitut für Ländliche Räume, Wald und Fischerei; Werner Environment and Development  
*Commissioned by: European Commission, DG Climate Action*

**Study on impacts on resource efficiency of future EU demand for bioenergy (2016)**

Böttcher, H.; Hennenberg, K.; Hünecke, K.; Reise, J.; Wiegmann, K.; in cooperation with European Forest Institute (EFI); Indufor Oy (Finnland); Institute for European Environmental Policy (IEEP); International Institute for Applied Systems Analysis (IIASA)  
*Commissioned by: European Commission, DG Environment*

**Annual review of Member States' greenhouse gas inventories under the Effort Sharing Decision in 2015 (2016)**

Herold, A.; Anderson, G.; Harthan, R.; in cooperation with Aether – Oxford Centre for Innovation (Aether); Benviroc Oy (Finland); Danish Centre For Environment And Energy (DCE); Flemish Institute of Technologic Research (VITO); Interprofessional Technical Centre for Studies on Air Pollution (CITEPA); Öko-Recherche; OonKAY! (Netherlands); Swedish Environmental Research Institute (IVL Sweden); Umweltbundesamt Wien; veQsr.o (Slovakia)  
*Commissioned by: European Commission, DG Climate Action*

**Briefing on "Climate action and the Emissions trading system (ETS) in China" (2016)**

Cames, M.; Healy, S.; Matthes, F.

*Commissioned by: European Union – European Parliament*

**Assessment of the first years of EU ETS Phase Three Allocations – Assessment of the first years of the functioning of the new allocation system based on benchmarks (2016)**

Schumacher, K.; Cludius, J.; Graichen, V.; Greiner, B.; Healy, S.; Zell-Ziegler, C.; in cooperation with CE Delft; Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Ricardo Energy & Environment (Ricardo-AEA)

*Commissioned by: European Commission, DG Climate Action*

**Update of the quantitative analysis of the 2030 EU GHG target (2016)**

Graichen, J.

*Commissioned by: WWF Germany*

**Support to the Commission with the preparation of the initial report for the second commitment period of the Kyoto Protocol (2016)**

Herold, A.; Anderson, G.; Böttcher, H.; Cook, V.; Gores, S.; Jörß, W.; Scheffler, M.; Siemons, A.; in cooperation with Umweltbundesamt Wien

*Commissioned by: European Commission, DG Climate Action*

**Energy transition in the electricity sector in Europe: How things stand in 2015 (2016)**

Ritter, D.; Emele, L.; Heinemann, C.; Rausch, L.

*Commissioned by: Agora Energiewende*

**Study to support an impact assessment of possible Aviation EU ETS Directive review (2016)**

Cames, M.; Gores, S.; Graichen, J.; Graichen, V.; Healy, S.; in cooperation with Institute for Climate Economics (I4CE); Ricardo Energy & Environment (Ricardo-AEA)

*Commissioned by: European Commission, DG Climate Action*

**Possible streamlining of climate and energy reporting requirements in areas with interlinkages (2016)**

Herold, A.; Emele, L.; Förster, H.; Gores, S.; Graichen, J.; Harthan, R.; Healy, S.; Jörß, W.; Scheffler, M.; Winger, C.; in cooperation with AMEC Foster Wheeler; BIO Intelligence Service

*Commissioned by: European Commission, DG Climate Action*

**Support related to preparing the HFC phase-down mechanism, labelling rules and guidance documents for the EU F-gas policy (2015)**

Jörß, W.; Anderson, G.; Greiner, B.; Hermann, A.; in cooperation with Öko-Recherche

*Commissioned by: European Commission, DG Climate Action*

**Enhanced flexibilities for the EU's 2030 Effort Sharing Decision and the treatment of the AFOLU sector (2015)**

Graichen, J.; Böttcher, H.; Graichen, V.

*Commissioned by: Carbon Market Watch*

**How to end energy poverty? Scrutiny of current EU and Member States instruments (2015)**

Hünecke, K.; Cludius, J.; Förster, H.; Greiner, B.; Kenkmann, T.; Schumacher, K.; in cooperation with Triple E Consulting – Energy, Environment & Economics B.V.

*Commissioned by: European Union – European Parliament*

**Assistance to Member States in the implementation of GHG projections guidelines (2015)**

Gores, S.; Förster, H.; Harthan, R.; in cooperation with Aether – Oxford Centre for Innovation (Aether); AMEC Environment; Flemish Institute of Technologic Research (VITO); Institute of Communication and Computer systems (ICCS); Interprofessional Technical Centre for Studies on Air Pollution (CITEPA); Netherlands Organisation for Applied Scientific Research (TNO); Umweltbundesamt Wien

*Commissioned by: European Commission, DG Climate Action*

**Reliable disclosure systems for Europe – Phase II (2015)**

Seebach, D.; Timpe, C.; in cooperation with E-Control; Grexel Systems Oy; IT Power; Observ'ER; Ostfold Research

*Funded by: Intelligent Energy – Europe programme*

**Quantitative analysis of the 2030 EU GHG target (2015)**

Graichen, J.

*Commissioned by: WWF Germany*

**Ex-post investigation of cost pass-through in the EU ETS: An analysis for six sectors (2015)**

Schumacher, K.; Cludius, J.; Graichen, V.; Healy, S.; Zell-Ziegler, C.; in cooperation with CE Delft

*Commissioned by: European Commission, DG Climate Action*

**What does the European power sector need to decarbonise? The role of the EU ETS & complementary policies post-2020 (2015)**

Graichen, V.; Healy, S.; in cooperation with Instituto de Políticas y Bienes Públicos (IPP-CSIC); Deutsches Institut für Wirtschaftsforschung (DIW); Institute for Sustainable Development and International Relations

*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Impacts on the EU 2030 climate target of including LULUCF in the climate and energy policy framework (2015)**

Böttcher, H.

*Commissioned by: Fern*

**Expert analysis on the further development and implementation of EU Effort Sharing (2015)**

Gores, S.; Böttcher, H.; Förster, H.; Graichen, J.; Graichen, V.; Healy, S.; Hennenberg, K.; Hermann, H.; Herold, A.; Matthes, F.; Scheffler, M.; Siemons, A.; von Schuckmann, L.

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

### 3. German energy and climate protection policy

#### 3.1 German energy and climate protection policy – cross sector

**Evaluation of combined heat and power – Analyses on the development of combined heat and power in an energy system with a high share of renewable energies (in progress)**

Gores, S.; Braungardt, S.; Bürger, V.; Emele, L.; Hermann, H.; Jörß, W.; Liste, V.; Mendelewitsch, R.; Nissen, C.; Rausch, L.; Zell-Ziegler, C.; in cooperation with Fraunhofer-Institut für Fertigungstechnik und Angewandte Materialforschung (IFAM); Ingenieurbüro für BHKW-Planung und KWK (BHKW Consult); Prognos; Stiftung Umweltenergierecht

*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Expert support for the preparation of the German government’s Climate Action Plan 2050**

*(in progress)*

Repenning, J.; Bürger, V.; Emele, L.; Greiner, B.; Haller, M.; Harthan, R.; Hennenberg, K.; Hermann, H.; Hesse, T.; Loreck, C.; Ludig, S.; Matthes, F.; Mendelevitich, R.; Moosmann, L.; Rausch, L.; Scheffler, M.; Schumacher, K.; Vogel, M.; Wiegmann, K.; in cooperation with Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Ice-TeX-Ingenieurbüro, Sponholz-Rühlow; Institut für Organisationskommunikation (IFOK); Institut für Ressourceneffizienz und Energiestrategien GmbH (IREES)

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

**Evaluation of public participation – Improving planning and permitting of major environmentally-relevant projects through participation of citizens and environmental organisations** *(in progress)*

Schütte, S.; Dieroff, J.; Hünecke, K.; Repenning, J.; Schumacher, K.; Warich, I.; Wolff, F.

*Commissioned by: German Environment Agency (UBA)*

**Transformative strategies for an integrated urban quarter development: plans of action and assessment options for German high-influx cities** *(in progress)*

Hesse, T.; Bleher, D.; Braungardt, S.; Brohmann, B.; Bürger, V.; Fischer, C.; Schönau, M.; Winger, C.; in cooperation with Deutsches Institut für Urbanistik gGmbH (difu); Institut für Landes- und Stadtentwicklungsforschung gGmbH (ILS); Schader-Stiftung; Team Ewen

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

**Communicative monitoring of the implementation of the climate protection plan 2050**

*(in progress)*

Scheffler, M.; Braungardt, S.; Gores, S.; Hesse, T.; Loreck, C.; Nissen, C.; Wiegmann, K.; in cooperation with BildungsCent e. V.; co2online; Institut für Organisationskommunikation (IFOK)

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

**Implementation of the Climate Action Programme 2020 – scientific support of the implementation of the measures of the Action Programme** *(in progress)*

Harthan, R.; Bürger, V.; Emele, L.; Greiner, B.; Hennenberg, K.; Hermann, H.; Hesse, T.; Jörß, W.; Loreck, C.; Ludig, S.; Matthes, F.; Scheffler, M.; Wiegmann, K.; Zell-Ziegler, C.; in cooperation with Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)

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

**Strategies and recommendations for the ecological structural change towards a green economy** *(in progress)*

Heyen, D.; Förster, H.; Hünecke, K.; in cooperation with Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)

*Commissioned by: German Environment Agency (UBA)*

**Approaches to the further development of Germany's public finances for the purposes of environmental protection** *(in progress)*

Graichen, V.; Emele, L.; Greiner, B.; Hermann, A.; in cooperation with Forschungszentrum für Umweltpolitik - Freie Universität Berlin (FFU); Forum Ökologisch-Soziale Marktwirtschaft e.V. (FÖS); Gesellschaft für wirtschaftliche Strukturforschung (GWS)  
*Commissioned by: German Environment Agency (UBA)*

**Ex-post evaluation of benefits and costs of environmental legislation** *(in progress)*

Hünecke, K.; Baron, Y.; Schumacher, K.; in cooperation with Zentrum für Europäische Wirtschaftsforschung (ZEW)  
*Commissioned by: German Environment Agency (UBA)*

**Development of the investment situation of commercial cogeneration plants and perspectives for subsidy strategies** *(in progress)*

Gores, S.; Braungardt, S.; Loreck, C.; Mendelevitch, R.; Rausch, L.; in cooperation with Prognos  
*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Developing instruments for reducing energy consumption through changes in behaviour** *(in progress)*

Schumacher, K.; Cludius, J.; Fischer, C.; Förster, H.; Hünecke, K.; Kenkmann, T.; Zell-Ziegler, C.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)  
*Commissioned by: German Environment Agency (UBA)*

**Regulatory experimental spaces for the reflective and adaptive governance of innovations** *(in progress)*

Bauknecht, D.; Englert, M.; Gailhofer, P.; Heinemann, C.; Heyen, D.; Vogel, M.; in cooperation with Hochschule Darmstadt; ifh Göttingen - Volkswirtschaftliches Institut für Mittelstand und Handwerk an der Universität Göttingen e.V.; Universität Göttingen  
*Funded by: German Federal Ministry of Education and Research (BMBF)*

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

Braungardt, S.; Bürger, V.; Hünecke, K.; Keimeyer, F.; Schumacher, K.; Wiegmann, K.; Wolff, F.; in cooperation with Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)  
*Commissioned by: German Environment Agency (UBA)*

**Legal guidance for the German Climate Action Plan and legal implementation** *(in progress)*

Keimeyer, F.; Emele, L.; Gores, S.; Graichen, J.; Harthan, R.; Hermann, H.; Jörß, W.; Kenkmann, T.; Repenning, J.; Schumacher, K.; in cooperation with Ecologic Institut; Prof. Dr. Stefan Klinski  
*Commissioned by: Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU)*

**GHG projection: Advancement of the methods and implementation of the EU Effort Sharing Decision in the projection report 2019 ("Policy scenarios IX")** *(in progress)*

Repenning, J.; Braungardt, S.; Bürger, V.; Cook, V.; Emele, L.; Gores, S.; Harthan, R.; Hennenberg, K.; Hermann, H.; Hesse, T.; Jörß, W.; Loreck, C.; Ludig, S.; Mendelevitch, R.; Moosmann, L.; Nissen, C.; Rausch, L.; Scheffler, M.; Schumacher, K.; Wiegmann, K.; Zell-Ziegler, C.; in cooperation with Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Institut für Ressourceneffizienz und Energiestrategien GmbH (IREES)  
*Commissioned by: German Environment Agency (UBA)*

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

Siemons, A.; Förster, H.; Hünecke, K.; Schumacher, K.; in cooperation with Forschungszentrum für Umweltpolitik - Freie Universität Berlin (FFU); Forum Ökologisch-Soziale Marktwirtschaft e.V. (FÖS)

*Commissioned by: German Environment Agency (UBA)*

**Climate Protection Scenario 2050** *(in progress)*

Repenning, J.; Blanck, R.; Böttcher, H.; Cludius, J.; Cook, V.; Emele, L.; Förster, H.; Graichen, V.; Greiner, B.; Hacker, F.; Haller, M.; Harthan, R.; Hennenberg, K.; Hermann, H.; Hünecke, K.; Jörß, W.; Kasten, P.; Loreck, C.; Ludig, S.; Matthes, F.; Mendelewitsch, R.; Moosmann, L.; Rausch, L.; Ritter, D.; Scheffler, M.; Schumacher, K.; Wiegmann, K.; Zell-Ziegler, C.; Zimmer, W.; in cooperation with dezentec - Ingenieurbüro für Energie und Umweltverfahrenstechnik; Dr. Hans-Joachim Ziesing; Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)

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

**Expert support for Germany's 2018 Climate Policy and Programme of Measures** *(in progress)*

Repenning, J.; Blanck, R.; Böttcher, H.; Braungardt, S.; Bürger, V.; Harthan, R.; Hennenberg, K.; Hermann, H.; Keimeyer, F.; Loreck, C.; Matthes, F.; Mendelewitsch, R.; Scheffler, M.; Wiegmann, K.; Zimmer, W.; in cooperation with Forum Ökologisch-Soziale Marktwirtschaft e.V. (FÖS); Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu); Institut für Ressourceneffizienz und Energiestrategien GmbH (IREES); Prognos

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

**Sustainable use of renewable energies for the provision of electricity, heat and cooling in energy concepts for buildings and neighbourhoods, taking account of building energy efficiency – Preliminary research** *(in progress)*

Hesse, T.; Bleher, D.; Braungardt, S.; Bürger, V.; Ritter, D.; Sutter, J.; Winger, C.; in cooperation with Fraunhofer Institut für Solare Energiesysteme (Fraunhofer ISE)

*Commissioned by: German Environment Agency (UBA)*

**Database for climate and energy scenarios (ScenarioDB): Research of scenario data and exemplary extension of OpenEnergy database.** *(in progress)*

Förster, H.; Emele, L.; Liste, V.; Winger, C.; in cooperation with Fraunhofer-Institut für Windenergie und Energiesystemtechnik (Fraunhofer IWES); Otto von Guericke Universität Magdeburg; Reiner Lemoine Institut

*Funded by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Perspectives of citizen participation in Germany's energy transition taking into account distributional issues: Energy Poverty** *(in progress)*

Schumacher, K.; Cludius, J.; Förster, H.; Gensch, C.; Hünecke, K.; Kunert, D.; Noka, V.

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

**Macroeconomic effects of the changeover expenditure for environment-related legislative projects** *(in progress)*

Schumacher, K.; Hünecke, K.; Nissen, C.

*Commissioned by: German Environment Agency (UBA)*



**Sustainable consumption: evaluation and further development of measures and instruments** *(in progress)*

Schumacher, K.; Griesshammer, R.; Kampffmeyer, N.; Keimeyer, F.; Wolff, F.; in cooperation with ConPolicy - Institut für Verbraucherpolitik; Prof. Dr. Lucia Reisch, Zeppelin Universität; Technische Universität Berlin

*Commissioned by: German Environment Agency (UBA)*

**Pilot Project Decentralization - Greater decentralization of the German electricity-heat system: Legal and organizational framework and infrastructural consequences** *(in progress)*

Koch, M.; Bauknecht, D.; Heinemann, C.; Hesse, T.; Vogel, M.; in cooperation with Energynautics; Stiftung Umweltenergierecht

*Commissioned by: Ministry of the Environment, Energy, Food and Forestry (Rheinland-Pfalz)*

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

Repenning, J.; Braungardt, S.; Jörß, W.; Keimeyer, F.; Kenkmann, T.; Liste, V.; Ludig, S.; Nissen, C.; Noka, V.; Rausch, L.; Schumacher, K.; Siemons, A.; Zell-Ziegler, C.; in cooperation with Dr. Kerstin Tews; Ecologic Institut gGmbH; Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Ice-TeX-Ingenieurbüro, Sponholz-Rühlow; Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu); Prof. Dr. Stefan Klinski; Prognos

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

**Valuation and introduction strategies for heavy goods vehicles with overhead lines - StratON** *(2020)*

Hacker, F.; Blanck, R.; Bracker, J.; Bulach, W.; Görz, W.; Haller, M.; Kasten, P.; Kühnel, S.; Ludig, S.; Mottschall, M.

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

**Evaluation study of participants in an event within the framework of the "ENERGIE2020" project** *(2020)*

Schumacher, K.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)

*Commissioned by: Verbraucherzentrale Nordrhein-Westfalen (VZ-NRW)*

**Improving the methodological foundation and elaborating a greenhouse gas emission scenario as a basis for the 2017 Projection Report within the framework of EU greenhouse gas monitoring ("Policy Scenarios VIII")** *(2020)*

Repenning, J.; Bürger, V.; Emele, L.; Flachsbarth, F.; Förster, H.; Greiner, B.; Harthan, R.; Hennenberg, K.; Hermann, H.; Herrmann, L.; Jörß, W.; Loreck, C.; Ludig, S.; Rausch, L.; Ritter, D.; Scheffler, M.; Schumacher, K.; Wiegmann, K.; Winger, C.; Zell-Ziegler, C.; in cooperation with Dr. Hans-Joachim Ziesing; Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)

*Commissioned by: German Environment Agency (UBA)*

**Revision of the TREMOD model for aviation 2019** *(2019)*

Gores, S.; Zell-Ziegler, C.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)

*Commissioned by: German Environment Agency (UBA)*

**Kopernikus P2X - Research, validation and implementation of power-to-x concepts (2019)**

Sutter, J.; Bracker, J.; Emele, L.; Flachsbarth, F.; Heinemann, C.; Hermann, H.; Ludig, S.; Timpe, C.

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

**Kopernikus ENSURE - New ENergy Grid StructURes for Energy Transition (2019)**

Timpe, C.; Bauknecht, D.; Bracker, J.; Bürger, V.; Emele, L.; Flachsbarth, F.; Haller, M.; Heinemann, C.; Hennenberg, K.; Hesse, T.; Hünecke, K.; Koch, M.; Ritter, D.; Seebach, D.; Vogel, M.; Winger, C.; in cooperation with Deutsche Umwelthilfe e. V. (DUH); E.ON; ewi Energy Research & Scenarios (ewi ER&S); Germanwatch e.V.; Karlsruher Institut für Technologie (KIT); RWTH Aachen University (Rheinisch-Westfälische Technische Hochschule Aachen); Siemens AG; Stadtwerke Kiel; TenneT TSO GmbH

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

**Effects of sectoral coupling in the heating sector on the energy costs of private consumers (2019)**

Bürger, V.; Braungardt, S.; Cludius, J.

*Commissioned by: Federation of German Consumer Organisations (vzbv)*

**Kopernikus ENavi - Navigation system to evaluate and analyse systemic cross-linkages of energy transformation (2019)**

Brohmann, B.; Bauknecht, D.; Bracker, J.; Heinemann, C.; Hesse, T.; Vogel, M.; Zimmer, W.; in cooperation with DIALOGIK gemeinnützige Gesellschaft für Kommunikations und Kooperationsforschung mbH; Universität Münster; Wuppertal Institut für Klima, Umwelt, Energie gGmbH

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

**Climate friendly transport: implementation strategies for greenhouse gas reductions in the transport sector in 2030 and 2050 (2019)**

Zimmer, W.; Blanck, R.; Förster, H.; Gores, S.; Graichen, J.; Graichen, V.; Hacker, F.; Healy, S.; Heinemann, C.; Kasten, P.; Nissen, C.; Schumacher, K.; Seebach, D.; Timpe, C.; Wingenbach, M.; in cooperation with INFRAS AG; Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu); KCW GmbH

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

**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; Forschungszentrum für Umweltpolitik - Freie Universität Berlin (FFU); Hochschule Karlsruhe – Technik und Wirtschaft; Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu); Münch, Sascha; Prof. Dr. Stefan Klinski; Prognos

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

**Availability and use of biogenic waste and residues in the energy system (electricity, heat and transport sector) (2019)**

Hünecke, K.; Wiegmann, K.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu); Institut für ZukunftsEnergieSysteme (IZES)

*Commissioned by: German Environment Agency (UBA)*

**Research coordination of the funding initiative "An environmentally and socially compatible transformation of the German energy system" (2018)**

Bürger, V.; Barth, R.; Bauknecht, D.; Brommer, E.; Gensch, C.; Griesshammer, R.; Heinemann, C.; Hermann, H.; Hesse, T.; Sachs, A.; Schoßig, M.; Vogel, M.; in cooperation with Institut für sozial-ökologische Forschung gGmbH (ISOE); KiB Research

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

**Decomposition analysis of energy-related greenhouse gas emissions with a focus on the expansion of renewable energy (2018)**

Förster, H.; Emele, L.; Graichen, J.; Loreck, C.; Nissen, C.; Rausch, L.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)

*Commissioned by: German Environment Agency (UBA)*

**Role of bioenergy in the electricity and heat markets up to 2050, taking into account the future building stock (2018)**

Koch, M.; Bürger, V.; Haller, M.; Hennenberg, K.; Hesse, T.; Hünecke, K.; Ludig, S.; Winger, C.

*Funded by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Scientific support on aspects of developing a governance system for the 2030 climate and energy framework (2018)**

Seebach, D.; in cooperation with Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)

*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Perspectives on public participation for energy transition under consideration of distribution aspects: Analysis of an optimal way to integrate battery storage into the grid (2018)**

Heinemann, C.; Bauknecht, D.; Gensch, C.; Vogel, M.; in cooperation with Institut für sozial-ökologische Forschung gGmbH (ISOE)

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

**Extending cost-benefit analyses on selected energy efficiency measures to include findings relating to the market for energy efficiency services and the cost of investments in energy efficiency (2018)**

Braungardt, S.; Hünecke, K.; Schumacher, K.; in cooperation with Wuppertal Institut für Klima, Umwelt, Energie gGmbH

*Commissioned by: Bundesstelle für Energieeffizienz beim Bundesamt für Wirtschaft und Ausfuhrkontrolle (BfEE)*

**Assessment of the environmental, social and economic impacts of the sector targets for 2030 of the Federal Government's Climate Action Plan 2050 (2018)**

Repenning, J.; Bergmann, T.; Blanck, R.; Böttcher, H.; Bürger, V.; Cludius, J.; Cook, V.; Emele, L.; Hennenberg, K.; Hermann, H.; Hünecke, K.; Jörß, W.; Kreye, K.; Loreck, C.; Ludig, S.; Matthes, F.; Nissen, C.; Scheffler, M.; Schumacher, K.; Wiegmann, K.; Zell-Ziegler, C.; in cooperation with Forschungsinstitut für biologischen Landbau (FiBL); Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Institut für Ressourceneffizienz und Energiestrategien GmbH (IREES); Prognos

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

**RELIS – Resource-efficient infrastructures that are fit for the future (2017)**

Mottschall, M.; Bauknecht, D.; Vogel, M.; Winger, C.; in cooperation with Deutsches Institut für Urbanistik gGmbH (difu)

*Commissioned by: German Environment Agency (UBA)*

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

Wolff, F.; Förster, H.; Gensch, C.; Griesshammer, R.; Gsell, M.; Heyen, D.; Schumacher, K.

*Commissioned by: German Environment Agency (UBA)*

**Methodological adaptation of the German GHG emission inventories to the revised "UNFCCC reporting guidelines on annual inventories for Parties included in Annex I to the Convention" (2017)**

Harthan, R.; Anderson, G.; Böttcher, H.; Hennenberg, K.; Herold, A.; Jörß, W.; Koch, M.; Scheffler, M.

*Commissioned by: German Environment Agency (UBA)*

**Development of an Energy Costs Index for German industry (2017)**

Matthes, F.; Greiner, B.; in cooperation with Deutsches Institut für Wirtschaftsforschung (DIW)

*Commissioned by: European Climate Foundation (ECF)*

**Integration of the heat and cooling sector in the PowerFlex electricity model to analyse cross-sectoral effects on climate targets and the integration of renewable energies (2017)**

Koch, M.; Bauknecht, D.; Bürger, V.; Flachsbarth, F.; Haller, M.; Heinemann, C.; Hermann, H.; Hesse, T.; Kenkmann, T.; Loreck, C.; Rausch, L.; Ritter, D.; Timpe, C.; Vogel, M.; Winger, C.; in cooperation with Institut für sozial-ökologische Forschung gGmbH (ISOE); Zentrum für Windenergieforschung (ForWind)

*Funded by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Approaches to present and assess the national emission development including the EU ETS (2016)**

Gores, S.; Graichen, J.; Hermann, H.

*Commissioned by: German Environment Agency (UBA)*

**Developing a concept for the overall reduction of energy demand: potentials, general conditions and tools to achieve energy saving goals of the German National Energy Concept (2016)**

Förster, H.; Blanck, R.; Brohmann, B.; Brunn, C.; Bürger, V.; Cludius, J.; Fischer, C.; Hacker, F.; Heyen, D.; Hünecke, K.; Keimeyer, F.; Kenkmann, T.; Schleicher, T.; Schumacher, K.; Wolff, F.; in cooperation with Institut für Ressourceneffizienz und Energiestrategien GmbH (IREES)  
*Commissioned by: Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)*

**Development of a concept for achieving national energy-saving goals by 2020 and by 2050, considering relevant EU regulations, in the context of an integral climate and energy policy (Action plan for energy efficiency) (2016)**

Bürger, V.; Cludius, J.; Förster, H.; Keimeyer, F.; Kenkmann, T.; Schumacher, K.; in cooperation with ECOFYS; Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Institut für Ressourceneffizienz und Energiestrategien GmbH (IREES)  
*Commissioned by: 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 (2016)**

Repenning, J.; Brohmann, B.; Jörß, W.; Kenkmann, T.; Schüler, D.; Schumacher, K.; in cooperation with Arepo Consult; Dr. Hans-Joachim Ziesing; Ecologic Institut gGmbH; Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)  
*Commissioned by: Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)*

**Implications of the changed reporting requirements of the Effort Sharing Decision for the EU ETS and the national GHG inventory (DENK3) (2016)**

Jörß, W.; Anderson, G.; Emele, L.; Gores, S.; Graichen, J.; Hermann, H.; Herold, A.; Siemons, A.; Zell-Ziegler, C.; in cooperation with Institut für Zukunftsstudien und Technologiebewertung (IZT)  
*Commissioned by: German Environment Agency (UBA)*

**GHG projections: Further development of the methods and implementation of the EU Effort Sharing Decision in the 2015 projection report (“Policy scenarios”) (2016)**

Repenning, J.; Bergmann, T.; Blanck, R.; Cook, V.; Emele, L.; Flachsbarth, F.; Förster, H.; Gores, S.; Greiner, B.; Haller, M.; Harthan, R.; Hermann, H.; Jörß, W.; Loreck, C.; Ludig, S.; Rausch, L.; Scheffler, M.; Schumacher, K.; Wiegmann, K.; Zell-Ziegler, C.; in cooperation with Dr. Hans-Joachim Ziesing; Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)  
*Commissioned by: German Environment Agency (UBA)*

**Expert analyses on current issues of climate policy in Germany (2015)**

Repenning, J.; Blanck, R.; Bürger, V.; Dehoust, G.; Emele, L.; Hermann, H.; Hesse, T.; Jörß, W.; Loreck, C.; Matthes, F.; Scheffler, M.; Wiegmann, K.; Zell-Ziegler, C.; Zimmer, W.  
*Commissioned by: Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)*

**Examining the consistency of environmental objectives and measures for the purpose of environmental reporting** (2015)

Wolff, F.; Alt, S.; Barth, R.; Bunke, D.; Groß, R.; Hacker, F.; Hennenberg, K.; Heyen, D.; Hünecke, K.; Kasten, P.; Küppers, P.; Manhart, A.; Mehlhart, G.; Schütte, S.; Spieth-Achtnich, A.; Wiegmann, K.; in cooperation with Forschungszentrum für Umweltpolitik - Freie Universität Berlin (FFU); Health and Environment Alliance (HEAL)

*Commissioned by: German Environment Agency (UBA)*

**3.2 German energy and climate protection policy – sector specific**

**Investigation of instruments and measures to develop the additional renewable energy expansion required from a climate protection perspective** (in progress)

Bauknecht, D.; Haller, M.; Heinemann, C.; Palacios, S.; Ritter, D.; Seebach, D.; Vogel, M.; Winger, C.; in cooperation with Stiftung Umweltenergierecht

*Commissioned by: German Environment Agency (UBA)*

**Model comparison of electricity grid models in the European context** (in progress)

Koch, M.; Flachsbarth, F.; Palacios, S.; Winger, C.; in cooperation with DLR-Institut für Vernetzte Energiesysteme; Forschungsstelle für Energiewirtschaft (FfE); Karlsruher Institut für Technologie (KIT); RWTH Aachen University (Rheinisch-Westfälische Technische Hochschule Aachen); Technische Universität Dortmund; Technische Universität Dresden

*Funded by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Enera – demonstration project wind** (in progress)

Bauknecht, D.; Flachsbarth, F.; Haller, M.; Heinemann, C.; Koch, M.; Ludig, S.; Palacios, S.; Ritter, D.; Vogel, M.; Wingenbach, M.; Winger, C.; in cooperation with OFFIS-Institut für Informatik; EWE; RWTH Aachen University (Rheinisch-Westfälische Technische Hochschule Aachen)

*Funded by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Stuttgart Airport: Compensation for the LTO cycle** (in progress)

Brunn, C.; Cames, M.; Gores, S.

*Commissioned by: Flughafen Stuttgart GmbH (Stuttgart Airport)*

**Comparative analysis of electricity storage systems - application scenarios, economic and ecological evaluation** (in progress)

Heinemann, C.; Bauknecht, D.; Koch, M.; Vogel, M.; Stahl, H.; Möller, M.; Bulach, W.; Baron, Y.

*Commissioned by: Bayerisches Landesamt für Umwelt*

**The energy system of the future in the 'solar arch' of Southern Germany** (in progress)

Heinemann, C.; Bauknecht, D.; Bracker, J.; Flachsbarth, F.; Ritter, D.; Seebach, D.; Vogel, M.; Wingenbach, M.; Winger, C.; in cooperation with Becker Büttner Held PartGmbH

*Funded by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Sustainable utilization of resources – requirements for a sustainable bio-based economy as part of the implementation of Agenda 2030/SDGs** (in progress)

Hünecke, K.; Hennenberg, K.; in cooperation with Ecologic Institut gGmbH; University of Sussex (UOS)

*Commissioned by: German Environment Agency (UBA)*

**Identification of actor-related options for action for a turnaround in food and agriculture with a view to shaping the CAP after 2020** *(in progress)*

Böttcher, H.; Hünecke, K.; Scheffler, M.; Wiegmann, K.

*Commissioned by: Stiftung Zukunftserbe*

**Implementation of KWSB recommendations (section 2): Interaction of a decommissioning measure with the electricity market** *(in progress)*

Hermann, H.; Gores, S.; Matthes, F.; Mendelewitsch, R.; in cooperation with r2b - research to business energy consulting

*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Scientific analyses of current climate policy issues in the land use, land-use change and forestry sector (LULUCF)** *(in progress)*

Böttcher, H.; Hennenberg, K.; Hünecke, K.; Reise, J.; Scheffler, M.; Wiegmann, K.; in cooperation with Forschungsinstitut für biologischen Landbau (FiBL); Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)

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

**Systemic challenges of Germany's heat transition** *(in progress)*

Bürger, V.; Braungardt, S.; Hesse, T.; in cooperation with Fraunhofer Institut für Solare Energiesysteme (Fraunhofer ISE); Hamburg Institut Consulting GmbH

*Commissioned by: German Environment Agency (UBA)*

**Analyses and assessments of the climate protection impact of instruments and measures for greenhouse gas reduction in transport, development of design options** *(in progress)*

Timpe, C.; Heinemann, C.; Merz, C.; Hacker, F.; Keimeyer, F.; Förster, H.; Graichen, J.; Repenning, J.; Sutter, J.; Schumacher, K.; Cames, M.; Buchert, M.; Mottschall, M.; Dolega, P.; Kasten, P.; Blanck, R.; Bergmann, T.; Graichen, V.; Wiebke Zimmer, W.; Görz, W.; in cooperation with INFRAS AG; Institut für Energie und Umweltforschung Heidelberg GmbH (ifeu)

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

**Sustainable cooling in buildings in Europe – Concepts for avoiding heat islands and for a comfortable indoor climate** *(in progress)*

Braungardt, S.; Bürger, V.; in cooperation with ECOFYS

*Commissioned by: German Environment Agency (UBA)*

**Concepts for the enforcement of climate protection laws in the building sector including third parties** *(in progress)*

Keimeyer, F.; Bürger, V.; Hesse, T.; in cooperation with Prof. Dr. Stefan Klinski

*Commissioned by: German Environment Agency (UBA)*

**Direct Marketing of renewable energies and further marketing models for renewable energies** *(in progress)*

Seebach, D.; Haller, M.; Rausch, L.; Ritter, D.; Winger, C.; in cooperation with Energy Brainpool (Portfolio Consultants); Fraunhofer Institut für Solare Energiesysteme (Fraunhofer ISE)

*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Systemic monitoring and modelling of the bioeconomy** *(in progress)*

Böttcher, H.; Hennenberg, K.; Hünecke, K.; Reise, J.; Wiegmann, K.; Winger, C.; in cooperation with Deutsches Biomasseforschungszentrum (DBFZ); Gesellschaft für wirtschaftliche Strukturforschung (GWS); Helmholtz-Zentrum für Umweltforschung GmbH; INFRO - Informationssysteme für Rohstoffe; Meo Carbon Solutions GmbH; Universität Kassel  
*Funded by: German Federal Ministry of Education and Research (BMBF)*

**Climate protection in air and maritime transport: Options for meeting emission targets** *(in progress)*

Cames, M.; Böttcher, H.; Graichen, J.; Healy, S.; Nissen, C.; in cooperation with CE Delft; Deutsches Zentrum für Luft- und Raumfahrt (DLR)  
*Commissioned by: German Environment Agency (UBA)*

**Life cycle assessment of high and extra high-voltage lines in Germany** *(in progress)*

Sutter, J.; Flachsbarth, F.  
*Commissioned by: German Environment Agency (UBA)*

**Support of EnergieVision e.V. with respect to management of the organisation and to strategy development** *(in progress)*

Seebach, D.; Bracker, J.; Bürger, V.  
*Commissioned by: Verein zur Förderung von Nachhaltigkeit und Markttransparenz in der Energiewirtschaft (EnergieVision e.V.)*

**Recognition of imported guarantees of origin** *(in progress)*

Seebach, D.; Bracker, J.; Timpe, C.; in cooperation with Becker Büttner Held PartGmbH  
*Commissioned by: German Environment Agency (UBA)*

**Living Spaces: Instruments for needs-based use of living space in municipalities, Project of German Federal Ministry of Education and Research within the framework of the “Innovative Municipalities” program** *(in progress)*

Kenkmann, T.; Fischer, C.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu); Institut für sozial-ökologische Forschung gGmbH (ISOE)  
*Funded by: German Federal Ministry of Education and Research (BMBF)*

**MODEX model intercomparison** *(in progress)*

Haller, M.; Koch, M.; Ritter, D.; Winger, C.; in cooperation with ewi Energy Research & Scenarios (ewi ER&S); Fraunhofer-Institut für Energiewirtschaft und Energiesystemtechnik IEE; Hertie School of Governance gGmbH; Universität Duisburg-Essen (UDE)  
*Funded by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Model based scenario analysis of energy transition in the German electricity system within the context of future development possibilities in Europe up to 2050** *(in progress)*

Koch, M.; Bauknecht, D.; Haller, M.; Harthan, R.; Heinemann, C.; Rausch, L.; Ritter, D.; Vogel, M.; Winger, C.; in cooperation with Eclareon  
*Funded by: Federal Ministry for Economic Affairs and Energy (BMWi)*



**Evaluation of the measure "National efficiency label for old heating systems" (2020)**

Schumacher, K.; Kenkmann, T.; in cooperation with Institut für Zukunftsstudien und Technologiebewertung (IZT)

*Commissioned by: Federal Agency for Energy Efficiency at the Federal Office of Economics and Export Control (BfEE)*

**Support of EnergieVision e.V. with respect to management of the organisation and to strategy development (2020)**

Seebach, D.; Wingenbach, M.

*Commissioned by: Verein zur Förderung von Nachhaltigkeit und Markttransparenz in der Energiewirtschaft (EnergieVision e.V.)*

**Scale up! Emission-free airport vehicles (in progress)**

Hacker, F.; Bracker, J.; Bulach, W.; Haller, M.; Kühnel, S.; Minnich, L.; Seebach, D.; in cooperation with Flughafen Stuttgart GmbH; Losch Airport Service GmbH

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

**Further development of the Renewable Energy Sources Act (EEG) surcharge calculator (2019) (2019)**

Ritter, D.; Haller, M.

*Commissioned by: Agora Energiewende*

**Social design of GHG mitigation in the German transport sector: Distributional effects of policies and measures (2019)**

Blanck, R.; Cludius, J.; Görz, W.; Kreye, K.; Schönau, M.; Schumacher, K.; Zimmer, W.; in cooperation with Freie Universität Berlin

*Commissioned by: Agora Verkehrswende*

**Environmental assessment of different transport types in Germany (2019)**

Bergmann, T.; Bracker, J.; Seebach, D.; in cooperation with INFRAS AG; Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)

*Commissioned by: German Environment Agency (UBA)*

**Historical and future development of the EEG surcharge and its influence on electricity prices (2019)**

Loreck, C.; Graichen, V.; Haller, M.; Matthes, F.; Rausch, L.; Ritter, D.; Winger, C.

*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Support of EnergieVision e.V. with respect to management of the organisation and to strategy development (2019)**

Seebach, D.; Wingenbach, M.

*Commissioned by: Verein zur Förderung von Nachhaltigkeit und Markttransparenz in der Energiewirtschaft (EnergieVision e.V.)*

**Quantification of GHG mitigation potential (2019)**

Scheffler, M.; Wiegmann, K.

*Commissioned by: Klima-Allianz Deutschland*

**Project for analysis and restructuring of cross-cutting energy law (electricity) (2019)**

Seebach, D.; Bracker, J.; Timpe, C.; in cooperation with Becker Büttner Held PartGmbH; Ecologic Institut gGmbH; Stiftung Umweltenergierecht

*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Quantitative modelling of the impacts of a carbon floor price for the electricity sector in Germany in 2025 and 2030 (2019)**

Hermann, H.; Flachsbarth, F.; Matthes, F.; Mendelewitsch, R.

*Commissioned by: WWF Germany*

**Industrial waste heat recovery (2019)**

Braungardt, S.; in cooperation with Becker Büttner Held Consulting AG; Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Institut für Klimaschutz, Energie und Mobilität (IKEM)

*Commissioned by: Ministry of the Environment, Climate Protection and the Energy Sector Baden-Wuerttemberg*

**Perspectives of citizen participation in Germany's energy transition including consideration of distribution issues: Low temperature district heating networks and citizen energy as transformation strategies (2018)**

Bürger, V.; Braungardt, S.; Gensch, C.; Kenkmann, T.; in cooperation with Deutsches Institut für Urbanistik gGmbH (difu)

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

**Integrating a carbon floor price in the policy mix for Germany's coal phase-out (2018)**

Ludig, S.; Cook, V.; Hermann, H.; Loreck, C.; Matthes, F.

*Commissioned by: WWF Germany*

**The role of skilled craft companies for reaching the German energy efficiency targets for buildings (2018)**

Kenkmann, T.; Braungardt, S.

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

**Forest Vision Germany - Plan B for German forests (2018)**

Böttcher, H.; Hennenberg, K.; Winger, C.

*Commissioned by: Greenpeace*

**Perspectives on public participation for energy transition under consideration of distribution aspects: Taking social factors on development of the grid into account (2018)**

Koch, M.; Flachsbarth, F.; Timpe, C.; Winger, C.; in cooperation with Europa-Universität Flensburg; Fraunhofer Institut für Solare Energiesysteme (Fraunhofer ISE); Institut für Zukunftsstudien und Technologiebewertung (IZT); Kulturwissenschaftliche Institut in Essen (KWI)

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

**Further development of the Renewable Energy Sources Act (EEG) surcharge calculator (2018) (2018)**

Ritter, D.; Haller, M.; Loreck, C.

*Commissioned by: Agora Energiewende*

**Decentralization, regionalisation and power grid infrastructures: Meta-study on assumptions, insights and narratives (2018)**

Matthes, F.; Flachsbarth, F.; Vogel, M.

*Commissioned by: Renewables Grid Initiative e.V.***Increasing transparency with regard to the need to expand the electricity transmission grid (2018)**

Timpe, C.; Bauknecht, D.; Breuer, J.; Flachsbarth, F.; Haller, M.; Heinemann, C.; Koch, M.; Loreck, C.; Ludig, S.; Ritter, D.; Schulze, F.; Vogel, M.; Winger, C.; in cooperation with e-fect dialog evaluation consulting eG

*Funded by: German Federal Ministry of Education and Research (BMBF)***Nexus resource efficiency and land use: approaches to a multidimensional environmental assessment of resource efficiency (2018)**

Böttcher, H.; Gsell, M.; Hennenberg, K.; Scheffler, M.; Wiegmann, K.; Wolff, F.; in cooperation with Hochschule für Forstwirtschaft Rottenburg; Leibniz-Institut für Agrartechnik Potsdam-Bornim e.V.

*Commissioned by: German Environment Agency (UBA)***RegMex Project: Model experiments and comparisons for the simulation of paths towards a fully renewable energy supply system (2018)**

Koch, M.; Flachsbarth, F.; Winger, C.; in cooperation with Deutsches Zentrum für Luft- und Raumfahrt (DLR)

*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)***Climate accounting for green electricity (2018)**

Seebach, D.; Bracker, J.

*Commissioned by: MAN Truck & Bus AG***Development of a market-based mechanism or emissions trading scheme for aviation that is optimal from an ecological and economic perspective as a reference and benchmark for the market-based mechanism negotiated under ICAO (2018)**

Gores, S.; Cames, M.; Graichen, V.; Keimeyer, F.; in cooperation with CE Delft; Transport Analysis and Knowledge Systems (TAKS)

*Commissioned by: German Environment Agency (UBA)***Lignite opencast mine Hambach: Climate protection and energy management necessity (2018)**

Bauknecht, D.; Flachsbarth, F.; Ritter, D.; Vogel, M.

*Commissioned by: BUND LV NRW e.V.***Climate-neutral building stock 2050 II (2017)**

Bürger, V.; Hesse, T.; in cooperation with Fraunhofer Institut für Solare Energiesysteme (Fraunhofer ISE)

*Commissioned by: German Environment Agency (UBA)***Climate Protection in the electricity sector – Comparison of instruments to reduce emissions (2017)**

Hermann, H.; Cook, V.; Greiner, B.; Keimeyer, F.; Loreck, C.; Ritter, D.; Winger, C.; in cooperation with Büro für Energiewirtschaft und technische Planung (BET Aachen); Prof. Dr. Stefan Klinski

*Commissioned by: German Environment Agency (UBA)*

**Renewable vs. fossil power systems: comparison of costs (2017)**

Matthes, F.; Cook, V.; Heinemann, C.; Ludig, S.; Ritter, D.  
*Commissioned by: Agora Energiewende*

**Workshop on the further development of a regulatory innovation zone instrument (2017)**

Heinemann, C.; Bauknecht, D.; in cooperation with Becker Büttner Held PartGmbH;  
 Wissenschaftliches Institut für Infrastruktur und Kommunikationsdienste (WIK Consult)  
*Commissioned by: Ministry of the Environment, Climate Protection and the Energy Sector Baden-Wuerttemberg*

**Analysis and dialogue for ensuring the carbon emission advantage of e-mobility (2017)**

Timpe, C.; Bracker, J.; Flachsbarth, F.; Hacker, F.; Haller, M.; Kasten, P.; Seebach, D.; in  
 cooperation with Energynautics; Lynda Hepburn  
*Commissioned by: Federal Ministry for the Environment, Nature Conservation, Building and  
 Nuclear Safety (BMUB)*

**Germany's electric future – Coal phase-out 2035 (2017)**

Loreck, C.; Cook, V.; Emele, L.; Flachsbarth, F.; Hermann, H.; Ludig, S.; Matthes, F.; Ritter, D.;  
 Winger, C.; in cooperation with Prognos  
*Commissioned by: WWF Germany*

**German lignite industry – historic development, resources, technology, economic structures and environmental effects (2017)**

Matthes, F.; Greiner, B.; Hermann, H.  
*Commissioned by: Agora Energiewende*

**Further development of the Renewable Energy Sources Act (EEG) surcharge calculator (2017) (2017)**

Ritter, D.; Haller, M.; Loreck, C.  
*Commissioned by: Agora Energiewende*

**Decentralised and centralised energy management on the distribution grid level that is geared to integration of renewable energies in the German electricity system (2016)**

Koch, M.; Bauknecht, D.; Flachsbarth, F.; Heinemann, C.; Ritter, D.; Vogel, M.; in cooperation with  
 OFFIS-Institut für Informatik  
*Funded by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Review and classification of technical approaches and stakeholder structures for optimizing decentralized sub-systems of the energy system (2016)**

Bauknecht, D.; Bürger, V.; Heinemann, C.; Ritter, D.; Vogel, M.; in cooperation with Dr. Langniß -  
 Energie und Analyse  
*Commissioned by: German Environment Agency (UBA)*

**Position paper on the use of biogenic raw materials in emulsion paints (2016)**

Hennenberg, K.; Hünecke, K.  
*Commissioned by: CAPAROL Farben Lacke Bautenschutz GmbH*

**Update of "Data and calculation model: Energy consumption and pollutant emissions of motorized transport in Germany, 1960 – 2035 (TREMOD) for emissions reporting in 2016 (reporting period 1990 – 2014)" (2016)**

Gores, S.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)  
*Commissioned by: German Environment Agency (UBA)*

**Electric mobility as a building block of energy transition (Energiewende) and climate protection: Development of an energy and transport analysis instrument for modelling the contribution of electric mobility (2016)**

Zimmer, W.; Blanck, R.; Förster, H.; Hacker, F.; Hülsmann, F.; Kasten, P.; Mottschall, M.; Schumacher, K.; von Waldenfels, R.; Zell-Ziegler, C.; in cooperation with Deutsches Zentrum für Luft- und Raumfahrt (DLR); INFRAS AG; Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu); tippingpoints – Agentur für nachhaltige Kommunikation GmbH  
*Commissioned by: 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 (2016)**

Bürger, V.; Hesse, T.; Quack, D.  
*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Further development of the Renewable Energy Sources Act (EEG) surcharge calculator (2016) (2016)**

Haller, M.; Graichen, V.; Hermann, H.; Loreck, C.; Ritter, D.; in cooperation with Agora Energiewende  
*Commissioned by: Agora Energiewende*

**Climate protection and cogeneration: Current developments in the context of economic conditions and technological progress (2016)**

Gores, S.; Emele, L.; Harthan, R.; Hermann, H.; Jörß, W.; Matthes, F.; Zell-Ziegler, C.; in cooperation with Dr. Hans-Joachim Ziesing  
*Commissioned by: Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)*

**Development of proposals for instruments to increase the use of heating and cooling from renewable energies in buildings and processing of selected legal issues relating to developing further the law on promotion of renewable energies in the heat sector (German Renewable Heat Energy Sources Act, EEWärmeG) (2015)**

Keimeyer, F.; Bürger, V.; Heyen, D.; Kenkmann, T.; in cooperation with Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu); Institut für Technische Gebäudeausrüstung (ITG); Prof. Dr. Stefan Klinski; Rechtsanwälte Geiser & von Oppen  
*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Further development of the Renewable Energy Sources Act (EEG) surcharge calculator (2015)**

Haller, M.; Cook, V.; Graichen, V.; Heinemann, C.; Loreck, C.; Ludig, S.; Matthes, F.; Ritter, D.; Sachs, A.  
*Commissioned by: Agora Energiewende*

**Expert advice on supporting the development of Smart Grids in Baden-Wuerttemberg (2015)**

Heinemann, C.; Bauknecht, D.; Sachs, A.; in cooperation with Wissenschaftliches Institut für Infrastruktur und Kommunikationsdienste (WIK Consult)

*Commissioned by: Ministry of the Environment, Climate Protection and the Energy Sector Baden-Wuerttemberg*

**Formulation of recycling-related and environmental requirements and strategies for preventing supply risks in connection with innovative Energy Storage Systems (2015)**

Stahl, H.; Bauknecht, D.; Vogel, M.; in cooperation with Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (ZSW)

*Commissioned by: German Environment Agency (UBA)*

**Analysis and discussion of the results of the Federal Forest Inventory that are significant from a nature conservation perspective (2015)**

Hennenberg, K.; Böttcher, H.; Wiegmann, K.; Winger, C.; in cooperation with Dr. Susanne Winter; Judith Reise

*Commissioned by: Federal Agency for Nature Conservation (BfN)*

**Climate Neutral Building Stock 2050 (2015)**

Bürger, V.; Hesse, T.; in cooperation with Fraunhofer Institut für Solare Energiesysteme (Fraunhofer ISE)

*Commissioned by: German Environment Agency (UBA)*

**Evaluation and reporting concept for a chapter on Europe in the annual VET report of the German Emissions Trading Authority (DEHSt) (2015)**

Gores, S.; Cludius, J.; Graichen, V.; Healy, S.

*Commissioned by: German Environment Agency (UBA)*

**Expert analysis of Germany's heat and cooling market and preparation of the progress report on German Renewable Energies Heating Act (EEWärmeG) (2015)**

Bürger, V.; Hesse, T.; in cooperation with Deutsches Zentrum für Luft- und Raumfahrt (DLR); Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Karlsruher Institut für Technologie (KIT); Prognos

*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**Further development of the EEG regulation and instrument (2015)**

Timpe, C.; Bauknecht, D.; Ritter, D.; Seebach, D.; Vogel, M.; in cooperation with Becker Büttner Held PartGmbH; Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Institut für Klimaschutz, Energie und Mobilität (IKEM); Stiftung Umweltenergierecht

*Commissioned by: Federal Ministry for Economic Affairs and Energy (BMWi)*

**4. Regional and communal energy and climate protection policy**

**Project management within the update of the Integrated Energy and Climate Protection Concept Baden-Württemberg (in progress)**

Bürger, V.; Bauknecht, D.; Böttcher, H.; Kenkmann, T.; Ritter, D.; Scheffler, M.; Wiegmann, K.; in cooperation with Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI)

*Commissioned by: Ministry of the Environment, Climate Protection and the Energy Sector Baden-Wuerttemberg*

**Service contract for the development of the Integrated Climate Protection Plan 2025 for the federal state of Hessen, including subsequent monitoring, communication and public participation in the plan** *(in progress)*

Wiegmann, K.; Heinemann, C.; Hennenberg, K.; Hünecke, K.; Kenkmann, T.; Koch, M.; in cooperation with Climate-Babel; Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Institut Wohnen und Umwelt GmbH (IWU); Potsdam Institut für Klimafolgenforschung (PIK); UmbauStadt GbR

*Commissioned by: Hessen Agentur GmbH*

**City of Offenburg - Evaluation of the municipal support programme for building refurbishment** *(in progress)*

Kenkmann, T.; Schumacher, K.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)

*Commissioned by: City Offenburg*

**Evaluation of the Renewable Heat Law Baden-Württemberg** *(in progress)*

Bürger, V.; Kenkmann, T.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)

*Commissioned by: Ministry of the Environment, Climate Protection and the Energy Sector Baden-Wuerttemberg*

**Conducting the external evaluation within the framework of the project “MehrWert NRW” (Value Added for North Rhine-Westphalia)** *(in progress)*

Schumacher, K.; Repenning, J.; Schumacher, H.; Wiegmann, K.; Zell-Ziegler, C.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)

*Commissioned by: Verbraucherzentrale Nordrhein-Westfalen (VZ-NRW)*

**Small private forests in Germany based on the example of Baden-Württemberg: Energy wood supply and regional value creation, new competition for use and aspects of sustainable management** *(in progress)*

Hennenberg, K.; Hünecke, K.

*Commissioned by: Fachagentur Nachwachsende Rohstoffe e.V. (FNR)*

**Update of the climate protection concept of the Protestant Regional Church in Baden (EKIBA) for the period 2022 - 2032** *(in progress)*

Kenkmann, T.; Hesse, T.; Winger, C.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)

*Commissioned by: Protestant Regional Church in Baden*

**Update of the Climate Protection Concept for the Archdiocese of Freiburg with the goal / vision of climate neutrality by 2030** *(in progress)*

Kenkmann, T.; Hesse, T.; Winger, C.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)

*Commissioned by: Archdiocese of Freiburg*

**CO<sub>2</sub>-free administration of the State of Berlin: Starting balance sheet and action plan** *(in progress)*

Kenkmann, T.; Winger, C.; in cooperation with Berliner Energieagentur

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

**City of Freiburg: Update of 2018 Climate Protection Plan (2018)**

Kenkmann, T.; Braungardt, S.; Timpe, C.; in cooperation with Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu)

*Commissioned by: City of Freiburg im Breisgau*

**Preparation of the first progress report in accordance with § 9 of the Climate Protection Act for Baden-Württemberg (2017)**

Kenkmann, T.; Hesse, T.; in cooperation with Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (ZSW)

*Commissioned by: Ministry of the Environment, Climate Protection and the Energy Sector Baden-Wuerttemberg*

**Expert analysis "Climate Action Target and Strategy Munich 2050" (2017)**

Kenkmann, T.; Hesse, T.; Rausch, L.; Timpe, C.; Winger, C.; in cooperation with Klaus Hoppe Consulting

*Commissioned by: City of Munich*

**Energy and Climate Protection Scenarios for 2030 (2017)**

Bürger, V.; Förster, H.; Greiner, B.; Hennenberg, K.; Scheffler, M.; Wiegmann, K.; in cooperation with Fraunhofer-Institut für System- und Innovationsforschung (Fraunhofer ISI); Institut für Energie- und Umweltforschung Heidelberg GmbH (ifeu); Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (ZSW)

*Funded by: Ministry of the Environment, Climate Protection and the Energy Sector Baden-Wuerttemberg*

**Support services regarding an early closure of the coal-fired cogeneration power plant in Munich-Nord (2016)**

Timpe, C.; Gores, S.; Hermann, H.; Rausch, L.; Ritter, D.

*Commissioned by: Stadtwerke München*

**Scenarios for a shutdown of the cogeneration plant Munich Nord (2015)**

Timpe, C.; Gores, S.; Rausch, L.; Ritter, D.

*Commissioned by: Stadtwerke München*