



Dr. Florian Kern

Forschungsfeldleiter „Umweltökonomie und Umweltpolitik“ und Themenkoordinator „Umweltpolitik und Governance“ sowie „Innovation und Technologie“

Ausgewählte Publikationen

a) Zeitschriftenartikel

Kern, Florian; Sharp, Helen; Hachmann, Samyra (2020): **Governing the second deep transition towards a circular economy: How rules emerge, align and diffuse.** In: Environmental Innovation and Societal Transitions 37: S. 171-186.

Kern, Florian; Petschow, Ulrich; Hofmann, David; Lehmann, Cathérine; Korbun, Thomas (2020): **Vorsorgeorientierte Postwachstumsposition und Transition zur Nachhaltigkeit.** In: Ökologisches Wirtschaften-Fachzeitschrift 33 (3): S. 22-24.

Edmondson, Duncan L.; Rogge, Karolin S.; Kern, Florian (2020): **Zero carbon homes in the UK? Analysing the co-evolution of policy mix and socio-technical system.** In: Environmental Innovation and Societal Transitions 35: S. 135-161.

Kern, Florian; Santarius, Tilman (2020): **Digitalisierung als Treiber einer sozial-ökologischen Transformation?** In: Ökologisches Wirtschaften-Fachzeitschrift 33 (2): S. 8-9.

Bhardwaj, Chandan; Axsen, John; Kern, Florian; McCollum, David (2020): **Why have multiple climate policies for light-duty vehicles? Policy mix rationales, interactions and research gaps.** In: Transportation Research Part A: Policy and Practice 135: S. 309-326.

Kern, Florian; Rogge, Karoline S.; Howlett, Michael (2019): **Policy mixes for sustainability transitions: New approaches and insights through bridging innovation and policy studies.** In: Research Policy 48 (10): S. 1-15.

Edmondson, Duncan L.; Kern, Florian; Rogge, Karolin S. (2019): **The co-evolution of policy mixes and socio-technical systems: Towards a conceptual framework of policy mix feedback in sustainability transitions.** In: Research Policy 48 (10): S. 1-14.



PhD in Science and
Technology Policy
Studies

SCHWERPUNKTE

Nachhaltigkeitstransformationen,
Innovationsforschung,
Governance, Umwelt, Energie-
und Klimapolitik, Policy, Politics

KONTAKT

Tel. +49-30-884594-76
Fax +49-30-8825439
florian.kern@ioew.de

Institut für ökologische
Wirtschaftsforschung (IÖW)
Potsdamer Str. 105
D-10785 Berlin

Kern, Florian; Sharp, Helen; Hachmann, Samyra (2019): **Adopting and Diffusing the Circular Economy as policy concept: The case of the European Union.** Paper for the International Conference on Public Policy.

Köhler, Jonathan; Geels, Frank W.; Kern, Florian; Markard, Jochen; Onsongo, Elsie; Wieczorek, Anna; ... ; Fünfschilling, Lea (2019): **An agenda for sustainability transitions research: State of the art and future directions.** In: Environmental Innovation and Societal Transitions.

Barnes, Jacob P.; Durrant, Rachel; Kern, Florian; MacKerron, Gordon (2018): **The institutionalisation of sustainable practices in cities: how sustainability initiatives shape local selection environments.** In: Environmental Innovation and Societal Transitions. In: Environmental Innovation and Societal Transitions, S. 29, 68-80.

Durrant, Rachael; Barnes, Jacob; Kern, Florian; Mackerron, Gordin (2018): **The acceleration of transitions to urban sustainability: a case study of Brighton and Hove.** In: European Planning Studies 26 (8): S. 1537-1558.

Edmondson, Duncan L.; Kern, Florian; Rogge, Karolin S. (2018): **The co-evolution of policy mixes and socio-technical systems: Towards a conceptual framework of policy mix feedback in sustainability transitions.** In: Research Policy 48 (10): S. 1-14.

Ehnert, Franziska; Frantzeskaki, Niki; Barnes, Jake; Borgström, Sara; Gorissen, Leen; Kern, Florian; Stenchock, Logan; Egermann, Markus (2018): **The acceleration of urban sustainability transitions: a comparison of Brighton, Budapest, Dresden, Genk, and Stockholm.** In: Sustainability, 10 (3), S. 1-25.

Kern, Florian; Rogge, Karolin S. (2017): **Harnessing theories of the policy process for analysing the politics of sustainability transitions: A critical survey.** In: Environmental Innovation and Societal Transitions 27: S. 102-117.

Ehnert, Franziska; Kern, Florian; Borgström, Sara; Gorissen, Leen; Maschmeyer, Steffan; Egermann, Markus (2017): **Urban sustainability transitions in a context of multi-level governance: A comparison of four European states.** In: Environmental Innovation and Societal Transitions 26, S.101-116.

Rogge, Karolin S.; Kern, Florian; Howlett, Michael (2017): **Conceptual and empirical advances in analysing policy mixes for energy transitions.** In: Energy Research & Social Science 33, S. 1-10.

Rosenow, Jan; Kern, Florian; Rogge, Karolin S. (2017): **The need for comprehensive and well targeted instrument mixes to stimulate energy transitions: The case of energy efficiency policy.** In:

Dr. Florian Kern

Forschungsfeldleiter
Umweltökonomie und
Umweltpolitik und
Themenkoordinator
„Umweltpolitik und Governance“
sowie „Innovation und
Technologie“

KONTAKT

Tel. +49-30-884594-76
Fax +49-30-88254-39
florian.kern@ioew.de

Institut für ökologische
Wirtschaftsforschung (IÖW)
Potsdamer Str. 105
D-10785 Berlin

Energy Research & Social Science 33: S. 95-104.

Kern, Florian; Kivimaa, Paul; Martiskainen, Mari (2017): **Policy packaging or policy patching? The development of complex energy efficiency policy mixes.** In: Energy Research & Social Science 23: S. 11-25.

Kern, Florian; Rogge, Karolin S. (2016): **The pace of governed energy transitions: Agency, international dynamics and the global Paris agreement accelerating decarbonisation processes?** In: Energy Research & Social Science 22: S. 13-17.

Geels, Frank W.; Kern, Florian; Fuchs, Gerhard; Hinderer, Nele; Kungl, Gregor; Mylan, Josephine; Neukirch, Mario; Wassermann, Sandra (2016): **The enactment of socio-technical transition pathways: a reformulated typology and a comparative multi-level analysis of the German and UK low-carbon electricity transitions (1990–2014).** In: Research Policy 45 (4): S. 896-913.

Raven, Rob; Kern, Florian; Verhees, Bram; Smith, Adrian (2016): **Niche construction and empowerment through socio-political work. A meta-analysis of six low-carbon technology cases.** In: Environmental Innovation and Societal Transitions 18: S. 164-180.

Raven, Rob; Kern, Florian; Smith, Adrian; Jacobsson, Staffan; Verhees, Bram (2016): **The politics of innovation spaces for low-carbon energy: introduction to the special issue.** In: Environmental Innovation and Societal Transitions 18: S. 101-110.

Kivimaa, Paul; Kern, Florian (2016): **Creative destruction or mere niche support? Innovation policy mixes for sustainability transitions.** In: Research Policy 45 (1): S. 205-217.

Kern, Florian; Gaede, James; Meadowcroft, James; Watson, Jim (2016): **The political economy of carbon capture and storage: an analysis of two demonstration projects.** In: Technological Forecasting and Social Change 102: S. 250-260.

Kern, Florian; Verhees, Braam; Raven, Rob; Smith, Adrian (2015): **Empowering sustainable niches: comparing UK and Dutch offshore wind developments.** In: Technological Forecasting and Social Change 100: S. 344-355.

Verhees, Braam; Raven, Rob; Kern, Florian; Smith, Adrian (2015): **The role of policy in shielding, nurturing and enabling offshore wind in The Netherlands (1973–2013).** In: Renewable and Sustainable Energy Reviews 47: S. 816-829.

Kern, Florian (2015): **Engaging with the politics, agency and structures in the technological innovation systems approach.** In: Environmental Innovation and Societal Transitions 16: S. 67-69.

Kern, Florian; Kuzemko, Carolin; Mitchell, Catherine (2014):

Dr. Florian Kern

Forschungsfeldleiter
Umweltökonomie und
Umweltpolitik und
Themenkoordinator
„Umweltpolitik und Governance“
sowie „Innovation und
Technologie“

KONTAKT

Tel. +49–30–884594-76
Fax +49–30–88254-39
florian.kern@ioew.de

Institut für ökologische
Wirtschaftsforschung (IÖW)
Potsdamer Str. 105
D-10785 Berlin

Measuring and explaining policy paradigm change: the case of UK energy policy. In: Policy & Politics 42 (4): S. 513-530.

Kern, Florian; Smith, Adrian, Shaw, Chris; Raven, Rob; Verhees, Braam (2014): **From laggard to leader: explaining offshore wind developments in the UK.** In: Energy Policy 69: S. 635-646.

Hoggett, Richard; Bolton, Ronan; Candelise, Chiara; Kern, Florian; Mitchell, Catherine; Yan, Jinyue (2014): **Supply chains and energy security in a low carbon transition.** In: Applied Energy 123: S. 292-295.

Smith, Adrian; Kern, Florian; Raven, Rob; Verhees, Braam (2014): **Spaces for sustainable innovation: Solar photovoltaic electricity in the UK.** In: Technological Forecasting and Social Change 81: S. 115-130.

Watson, Jim; Kern, Florian, Markusson, Nils (2014): **Resolving or managing uncertainties for carbon capture and storage: lessons from historical analogues.** In: Technological Forecasting and Social Change 81: S. 192-204.

Verhees, Braam; Raven, Rob; Veraart, Frank; Smith, Adrian; Kern, Florian (2013): **The development of solar PV in the Netherlands: a case of survival in unfriendly contexts.** In: Renewable and Sustainable Energy Reviews 19: S. 275-289.

Chalmers, Hannah; Gibbins, Jon; Gross, Rob; Haszeldine, Stuart; Heptonstall, Phil; Kern, Florian; Markusson, Nils; Pearson, Peter; Watson, Jim; Winkler, Mark (2013): **Analysing uncertainties for CCS: from historical analogues to future deployment pathways in the UK.** In: Energy Procedia 37: S. 7668-7679.

Kern, Florian (2012): **What can transition scholars learn from the literature on environmental policy integration?** In: Environmental Innovation and Societal Transitions 4: S. 79-80.

Markusson, Nils; Kern, Florian; Watson, Jim; Arapostathis, Stathis; Chalmers, Hannah; Ghaleigh, Navraj; Heptonstall, Philip; Pearson, Peter; Rossati, David; Russell, Stewart (2012): **A socio-technical framework for assessing the viability of carbon capture and storage technology.** In: Technological Forecasting and Social Change 79 (5): S. 903-918.

Kern, Florian (2012): **Using the multi-level perspective on socio-technical transitions to assess innovation policy.** In: Technological Forecasting and Social Change 79 (2): S. 298-310.

Kern, Florian (2012): **The discursive politics of governing transitions towards sustainability: an analysis of the Carbon Trust in the UK.** In: International Journal of Sustainable Development 15 (1/2): S. 90-106.

Dr. Florian Kern

Forschungsfeldleiter
Umweltökonomie und
Umweltpolitik und
Themenkoordinator
„Umweltpolitik und Governance“
sowie „Innovation und
Technologie“

KONTAKT

Tel. +49-30-884594-76
Fax +49-30-88254-39
florian.kern@ioew.de

Institut für ökologische
Wirtschaftsforschung (IÖW)
Potsdamer Str. 105
D-10785 Berlin

Kern, Florian (2011): **Ideas, institutions, and interests: explaining policy divergence in fostering 'system innovations' towards sustainability.** In: Environment and Planning C: Government and Policy 29 (6): S. 1117-1134.

Kern, Florian (2009): **The Carbon Trust: A model for fostering low carbon innovation in the transition countries?** In: Economic and Environmental Studies 9 (1): S. 45-57.

Kern, Florian; Howlett, Michael (2009): **Implementing transition management as policy reforms: a case study of the Dutch energy sector.** In: Policy Sciences 42 (4): S. 391-408.

Smith, Adrian; Kern, Florian (2009): **The transitions storyline in Dutch environmental policy.** In: Environmental Politics 18 (1): S. 78-98.

Kern, Florian; Smith, Adrian (2008): **Restructuring energy systems for sustainability? Energy transition policy in the Netherlands.** In: Energy Policy 36 (11): S. 4093-4103.

b) Buchkapitel

Rosenow, Jan; Kern, Florian (2017): **EU energy innovation policy: the curious case of energy efficiency.** In: Leal-Arcas, R.; Wouters, J. (Hrsg.), Research Handbook on EU Energy Law and Policy. London: Edward Elgar, S. 501-517.

Kern, Florian; Markard, Jochen (2016): **Analysing Energy Transitions: Combining Insights from Transition Studies and International Political Economy.** In: Van de Graaf, T.; Sovacool, B. et al. (Hrsg.), The Palgrave Handbook of the International Political Economy of Energy. London: Palgrave Macmillan, S. 291-318.

de Graaf, Thijs; Sovacool, Benjamin K.; Ghosh, Arunabha; Kern, Florian; Klare, Michael T. (2016): **States, Markets, and Institutions: Integrating International Political Economy and Global Energy Politics.** In: Van de Graaf, T., Sovacool, B.K. et al. (Hrsg.), The Palgrave Handbook of the International Political Economy of Energy. London: Palgrave Macmillan, S. 3–44.

Kern, Florian (2016): **Policy mixes in stimulating energy transitions: the case of UK energy efficiency policy.** In: Heffron, R. J.; Little, G. (Hrsg.), Delivering energy law and policy in the EU and the US: A Reader. Edinburgh: Edinburgh University Press, S. 448-451.

Watson, Jim; Wang, Xinxin; Kern, Florian (2015): **Energy systems and innovation.** In: Ekins, P.; Bradshaw, M.; Watson, J. (Hrsg.), Global Energy: Issues, Potentials, and Policy Implications. Oxford: Oxford University Press, S. 34-51.

Kern, Florian; Kuzemko, Caroline; Mitchell, Catherine (2015): **How and**

Dr. Florian Kern

Forschungsfeldleiter
Umweltökonomie und
Umweltpolitik und
Themenkoordinator
„Umweltpolitik und Governance“
sowie „Innovation und
Technologie“

KONTAKT

Tel. +49–30–884594-76
Fax +49–30–88254-39
florian.kern@ioew.de

Institut für ökologische
Wirtschaftsforschung (IÖW)
Potsdamer Str. 105
D-10785 Berlin

why do policy paradigms change; and does it matter? The case of UK energy policy. In: Hogan, J.; Howlett, M. (Hrsg.), Policy paradigms in theory and practice: discourses, ideas and anomalies in public policy dynamics. Studies in the political economy of public policy. London: Palgrave Macmillan, S. 269-292.

Kern, Florian (2012): **An international perspective on the energy transition project.** In: Verbong, G.; Loorbach, D. (Hrsg.), Governing the energy transition: reality, illusion or necessity? Routledge Studies in Sustainability Transitions. London: Routledge, S. 277-295.

Kern, Florian (2010): **Technologiepolitik und klimafreundliche Technologien: die Legitimierung von neuen Politikinitiativen durch Diskurs und deren Implementierung.** In: Biniok, P (Hg.), Wissenschaft und Politik: neue Forschungsperspektiven. Berlin: Verlag Peter Lang, S. 51-66.

Scrase, Ivan; Bauknecht, Dierk; Kern, Florian; Lehtonen, Markuu; MacKerron, Gordon; Martiskainen, Mari; McGowan, Francis; Ockwell, David; Sauter, Raphael; Smith, Adrian; Sorrell, Steve; Wang, Xinxin; Watson, Jim (2009): **Conclusions: transitions, governance and appraisal.** In: Scrase, I.; MacKerron, G. (Hrsg.), Energy for the Future. A New Agenda. Basingstoke: Palgrave Macmillan, S. 223-238.

Lehtonen, Markuu; Kern, Florian (2009): **Deliberative socio-technical transitions.** In: Scrase, Ivan; MacKerron, Gregor (Hrsg.), Energy for the Future. A New Agenda. Basingstoke: Palgrave Macmillan, S. 85-100.

c) Bücher

Van de Graaf, Thijs; Sovacool, Benjamin K.; Ghosh, Arunabha; Kern, Florian; Klare, Michael T. (Hrsg.) (2016): **The Palgrave Handbook of the International Political Economy of Energy.** Basingstoke: Palgrave Macmillan.

d) Dissertation

Kern, Florian (2010): **The politics of governing 'system innovations' towards sustainable electricity systems.** Brighton: University of Sussex.

d) Berichte, Diskussionsbeiträge und Policy Briefings

Petschow, Ulrich; Kern, Florian; Hofmann, David; Lehmann, Cathérine (2020): **Zeitenwende für vorsorgeorientiertes, resilientes Wirtschaften. Neue Impulse durch die Verbindung von Postwachstum- und Transformationsforschung.** Diskussionspapier des IÖW

Dr. Florian Kern

Forschungsfeldleiter
Umweltökonomie und
Umweltpolitik und
Themenkoordinator
„Umweltpolitik und Governance“
sowie „Innovation und
Technologie“

KONTAKT

Tel. +49-30-884594-76
Fax +49-30-88254-39
florian.kern@ioew.de

Institut für ökologische
Wirtschaftsforschung (IÖW)
Potsdamer Str. 105
D-10785 Berlin

Lange, Steffen; Banning, Maximilian; Berner, Anne; Kern, Florian; Lutz, Christian; Peuckert, Jan; Santarius, Tilman; Silbersdorff, Alexander (2019): **Economy-Wide Rebound Effects: State of the art, a new taxonomy, policy and research gaps**. Diskussionspapier. Insitut für ökologische Wirtschaftsforschung

Köhler, Jonathan; Geels, Frank W.; Onsongo, Elsie; Wieczorek, Anna; Kern, Florian (2017): **A research agenda for the Sustainability Transitions Research Network**. In: STRN Working Group.

Schot, Johan; Steinmueller, Edward; Kern, Florian; Kivimaa, Paul; Rogge, Karolin (2017): **Designing Innovation Policy for Transformative Change**. In: SPRU Briefing note for OECD.

Kern, Florian; Kivimaa, Paul; Rogge, Karolin (2017): **Accelerating low-carbon innovation: the role for phase-out policies**. In: CIED Policy Briefing 05.

Bird, James; Kern, Florian; Kivimaa, Paul; Rogge, Katerina (2016): **We must support the transition to low carbon by phasing out high carbon**. In: Green Alliance blog post (25. Nov. 2016).

Kern, Florian (2016): **After the 2016 Autumn Statement: The low carbon transition – still blowing in the wind?** In: Sussex Energy Group blog post (4. Aug. 2016).

Kern, Florian; Sovacool, Benjamin K. (2016): **CIED Response to National Infrastructure Assessment: consultation**. In: National Infrastructure Commission.

Rogge, Karolin S.; Kern, Florian (2015): **Stimulating innovation in renewable energy technologies: reflections on the German experience**. In: Sussex Energy Group blog post (25. Nov. 2015).

Kern, Florian (2015): **Could Canada hold the key to Britain's rotten record on carbon capture?** In: Sussex Energy Group blog post (9. Okt. 2015).

Kern, Florian (2015): **The scrapping of the zero carbon homes undermines trust in government's commitment to energy efficiency**. In: Sussex Energy Group blog post (13. Juli 2015).

Sorrell, Steve; Kern, Florian et al. (2015): **Response to Ofgem's discussion paper on 'Non-traditional business models: Supporting transformative change in the energy market. SEG/CIED**. In: SPRU.

Mackerron, Gordon; Carter, C; Kern, Florian (2015): **Whither energy policy: Is the government getting the worst of two worlds?** In: Sussex Energy Group blog post (9. Dez. 2015).

Dr. Florian Kern

Forschungsfeldleiter
Umweltökonomie und
Umweltpolitik und
Themenkoordinator
„Umweltpolitik und Governance“
sowie „Innovation und
Technologie“

KONTAKT

Tel. +49-30-884594-76
Fax +49-30-88254-39
florian.kern@ioew.de

Institut für ökologische
Wirtschaftsforschung (IÖW)
Potsdamer Str. 105
D-10785 Berlin

Kivimaa, Paul; Kern, Florian (2015): **Stimulating 'creative destruction' to transform how we use energy.** In: Sussex Energy Group blog post (15. Dez. 2015).

Martiskainen, Mari; Kern, Florian (2014): **Tackling the existing building stock as a real energy policy priority.** In: Sussex Energy Group blog post (9. Okt. 2014).

Kern, Florian (2014): **What can sustainability transition scholars learn from international political economy research?** In: Sussex Energy Group blog post (29. Sept. 2014).

Johnstone, Phil; Gross, Mathew; MacKerron, Gordon; Kern, Florian; Stirling, Andy (2013): **Response to the DECC Consultation of the siting process for a Geological Disposal Facility.** In: SPRU.

Kern, Florian (2013): **Energy transitions and deliberate transition management: implementing the green economy.** In: Ökologisches Wirtschaften 3: S. 20-22.

Watson, Jim; Kern, Florian; Gross, Mathew; Gross, Rob; Heptonstall, Phil; Jones, Felicity; Haszeldine, Stuart; Ascui, Francisco; Chalmers, Hannah; Ghaleigh, Navraj; Gibbins, Jon; Markusson, Nils; Marsden, Wendy; Rossati, David; Russell, Stuart; Winskel, Mark; Pearson, Peter; Arapostathis, Stathis (2012): **Carbon capture and storage: realising the potential?** In: UK Energy Research Centre, London.

Kern, Florian (2007): **The pharmaceutical industry and access and benefit-sharing.** In: European Regional Meeting on an Internationally Recognized Certificate of Origin / Source / Legal Provenance, (24 - 29 Okt. 2006).

Dr. Florian Kern

Forschungsfeldleiter
Umweltökonomie und
Umweltpolitik und
Themenkoordinator
„Umweltpolitik und Governance“
sowie „Innovation und
Technologie“

KONTAKT

Tel. +49-30-884594-76
Fax +49-30-88254-39
florian.kern@ioew.de

Institut für ökologische
Wirtschaftsforschung (IÖW)
Potsdamer Str. 105
D-10785 Berlin