

## Journal articles, book chapters and books

- Obrist, Michel D., Ramachandran Kannan, Thomas J. Schmidt, and Tom Kober (2021). “Decarbonization pathways of the Swiss cement industry towards net zero emissions”. In: *Journal of Cleaner Production* 288, p. 125413. DOI: <https://doi.org/10.1016/j.jclepro.2020.125413>.
- Kober, T., H. W. Schiffer, M. Densing, and E. Panos (2020c). “Global Energy Perspectives to 2060 - WEC’s World Energy Scenarios 2019”. In: *Energy Strategy Reviews* 31, p. 100523.
- O’Malley, M. J., M. B. Anwar, S. Heinen, T. Kober, J. McCalley, M. McPherson, M. Muratori, A. Orths, M. Ruth, T. J. Schmidt, and A. Tuohy (2020). “Multicarrier Energy Systems: Shaping Our Energy Future”. In: *Proceedings of the IEEE* 108 (9), pp. 1–20.
- Schneider, S., P. Novak, and T. Kober (2020). “Rechargeable batteries for simultaneous demand peak shaving and price arbitrage business”. In: *IEEE Transactions on Sustainable Energy*.
- World Energy Council in collaboration with Accenture Strategy and Paul Scherrer Institute (2019). *World Energy Scenarios 2019 - Exploring Disruptive Innovations in Global Energy Pathways to 2040*. London: World Energy Council.
- World Energy Council in collaboration with the Paul Scherrer Institute (2019). *World Energy Scenarios 2019 - Regional perspective for Europe to 2040*. London: World Energy Council.
- World Energy Council in collaboration with the World Nuclear Association and Paul Scherrer Institute (2019). *World Energy Scenarios 2019 - The future of Global Nuclear to 2060: diverse harmonies in the energy transition*. London: World Energy Council.
- Kober, T., C. Bauer, C. Bach, M. Beuse, G. Georges, M. Held, S. Heselhaus, P. Korba, L. Küng, A. Malhotra, S. Moebus, D. Parra, J. Roth, M. Rüdüsüli, T. Schildhauer, T.J. Schmidt, T.S. Schmidt, M. Schreiber, F.R. Segundo Sevilla, B. Steffen, and S.L. Teske (2019). *Power-to-X: Perspectives in Switzerland*. White Paper of the corresponding Joint Activity of the Swiss Competence Centers for Energy Research. DOI: [10.3929/ethz-b-000341153](https://doi.org/10.3929/ethz-b-000341153).
- Panos, Evangelos, Tom Kober, and Alexander Wokaun (2019). “Long term evaluation of electric storage technologies vs alternative flexibility options for the Swiss energy system”. In: *Applied Energy* 252, p. 113470. DOI: <https://doi.org/10.1016/j.apenergy.2019.113470>.
- Ruiz, P., W. Nijs, D. Tarvydas, A. Sgobbi, A. Zucker, R. Pilli, R. Jonsson, A. Camia, C. Thiel, C. Hoyer-Klick, F. Dalla Longa, T. Kober, J. Badger, P. Volker, B.S. Elbersen, A. Brosowski, and D. Thrän (2019). “ENSPRESO - an open source, EU-28 wide, transparent and coherent database of wind, solar and biomass energy potentials”. In: *Energy Strategy Reviews* 26, p. 100379. DOI: <https://doi.org/10.1016/j.esr.2019.100379>.
- Arango-Aramburo, Santiago, Sean W.D. Turner, Kathryn Daenzer, Juan Pablo Rios-Ocampo, Mohamad I. Hejazi, Tom Kober, A. C. Alvarez-Espinosa, German D. Romero-Otalora, and Bob van der Zwaan (2019). “Climate impacts on hydropower in Colombia: A multi-model assessment of power sector adaptation pathways”. In: *Energy Policy* 128, pp. 179–188. DOI: <https://doi.org/10.1016/j.enpol.2018.12.057>.
- Kober, Tom, Evangelos Panos, and Kathrin Volkart (2018d). “Energy System Challenges of Deep Global CO<sub>2</sub> Emissions Reduction Under the World Energy Council’s Scenario Framework”. In: *Limiting Global Warming to Well Below 2C: Energy System Modelling and Policy Development*. Ed. by G. Giannakidis, K. Karlsson, M. Labriet, and B. O Gallachoir. Vol. 64 Lecture Notes in Energy. Springer.

- Lucena, André F.P., Mohamad Hejazi, Eveline Vasquez-Arroyo, Sean Turner, Alexandre C. Köberle, Kathryn Daenzer, Pedro R.R. Rochedo, Tom Kober, Yongxia Cai, Robert H. Beach, David Gernaat, Detlef P. van Vuuren, and Bob van der Zwaan (2018). “Interactions between climate change mitigation and adaptation: The case of hydropower in Brazil”. In: *Energy* 164, pp. 1161–1177. DOI: <https://doi.org/10.1016/j.energy.2018.09.005>.
- Dalla Longa, Francesco, Teun Strikkers, Tom Kober, and Bob van der Zwaan (2018). “Advancing Energy Access Modelling with Geographic Information System Data”. In: *Environmental Modeling & Assessment*. DOI: [10.1007/s10666-018-9627-1](https://doi.org/10.1007/s10666-018-9627-1).
- Schiffer, Hans-Wilhelm, Tom Kober, and Evangelos Panos (2018). “World Energy Council’s Global Energy Scenarios to 2060”. In: *Zeitschrift für Energiewirtschaft* 42.2, pp. 91–102. DOI: [10.1007/s12398-018-0225-3](https://doi.org/10.1007/s12398-018-0225-3).
- Zwaan, B. van der, M. Halstead, and T. Kober (2018a). “Water Stress Implications of Energy Scenarios for the Middle East: an Assessment of Risks and Uncertainties”. In: *Understanding risks and uncertainties in energy and climate policy: Multidisciplinary methods and tools towards a low carbon society*. Ed. by Haris Doukas, Alexandros Flamos, and Jenny Lieu. Springer, pp. 143–160. DOI: [https://doi.org/10.1007/978-3-030-03152-7\\_6](https://doi.org/10.1007/978-3-030-03152-7_6).
- Zwaan, Bob van der, Tom Kober, Francesco Dalla Longa, Anouk van der Laan, and Gert Jan Kramer (2018b). “An integrated assessment of pathways for low-carbon development in Africa”. In: *Energy Policy* 117, pp. 387–395. DOI: <https://doi.org/10.1016/j.enpol.2018.03.017>.
- Arias-Gaviria, Jessica, Bob van der Zwaan, Tom Kober, and Santiago Arango-Aramburo (2017). “The prospects for Small Hydropower in Colombia”. In: *Renewable Energy* 107, pp. 204–214. DOI: [10.1016/j.renene.2017.01.054](https://doi.org/10.1016/j.renene.2017.01.054).
- World Energy Council in partnership with CAF - Development Bank of Latin America, Electrobras, UPME and the Paul Scherrer Institute (2017). *Latin America and The Caribbean Energy Scenarios*. London: World Energy Council.
- World Energy Council in collaboration with Accenture Strategy and Paul Scherrer Institute (2016). *World Energy Scenarios 2016 - The Grand Transition*. London: World Energy Council.
- Kober, T., P. Summerton, H. Pollitt, U. Chewpreecha, X. Ren, W. Wills, C. Octaviano, L. McFarland, R. Beach, Y. Cai, S. Calderon, K. Fisher-Vanden, and A. M. Loboguerrero (2016b). “Macroeconomic impacts of climate change mitigation in Latin America: a cross-model comparison”. In: *Energy Economics* 56, pp. 625–636. DOI: [10.1016/j.eneco.2016.02.002](https://doi.org/10.1016/j.eneco.2016.02.002).
- Jewell, Jessica, Vadim Vinichenko, David McCollum, Nico Bauer, Keywan Riahi, Tino Aboumahboub, Oliver Fricko, Mathijs Harmsen, Tom Kober, Volker Krey, Giacomo Marangoni, Massimo Tavoni, Detlef P. van Vuuren, Bob van der Zwaan, and Aleh Cherp (2016). “Comparison and interactions between the long-term pursuit of energy independence and climate policies”. In: *Nature Energy* 1.6, p. 16073. DOI: [10.1038/nenergy.2016.73](https://doi.org/10.1038/nenergy.2016.73).
- Kober, T., J. Falzon, B. van der Zwaan, K. Calvin, A. Kanudia, A. Kitous, and M. Labriet (2016a). “A multi-model study of energy supply investments in Latin America under climate control policy”. In: *Energy Economics* 56, pp. 543–551. DOI: [10.1016/j.eneco.2016.01.005](https://doi.org/10.1016/j.eneco.2016.01.005).
- Calderon, S. L., A. C. Alvarez, A. M. Loboguerrero, S. Arango, K. Calvin, T. Kober, K. Fisher-Vanden, and K. Daenzer (2015). “Achieving CO<sub>2</sub> Reductions in Colombia: Effects of Carbon Taxes and Abatement Tragetts”. In: *Energy Economics*. DOI: [10.1016/j.eneco.2015.05.010](https://doi.org/10.1016/j.eneco.2015.05.010).

- van der Zwaan, B., T. Kober, S. Calderon, L. Clarke, K. Daenzer, A. Kitous, M. Labriet, A. de Lucena, C. Octaviano, and N. di Sbroiavacca (2015). “Energy Technology Roll-Out for Climate Change Mitigation: A Multi-Model Study for Latin America”. In: *Energy Economics*. DOI: 10.1016/j.eneco.2015.11.019.
- van Ruiven, B. R., K. Daenzer, K. Fischer-Vanden, T. Kober, S. Paltsev, R. H. Beach, S. L. Calderon, K. Calvin, M. Labriet, A. Kitous, A. F. P. de Lucena, and D. van Vuuren (2015). “Baseline projections for Latin America: base-year assumptions, key drivers and greenhouse emissions”. In: *Energy Economics*. DOI: 10.1016/j.eneco.2015.01.02.003.
- Lucena, A. F. P. de, L. Clarke, R. Schaeffer, A. Szklo, P. R. R. Rochedo, L. P. P. Nogueira, K. Daenzer, A. Gurgel, A. Kitous, and T. Kober (2015). “Climate policy scenarios in Brazil: A multi-model comparison for energy”. In: *Energy Economics*. DOI: 10.1016/j.eneco.2015.02.005.
- Kober, Tom, Bob van der Zwaan, and Hilke Rösler (2015). “Schemes for the Regional Allocation of Emission Allowances under Stringent Global Climate Policy”. English. In: *Informing Energy and Climate Policies Using Energy Systems Models*. Ed. by George Giannakidis, Maryse Labriet, Brian Ó Gallachóir, and GianCarlo Tosato. Vol. 30. Lecture Notes in Energy. Cham, Switzerland: Springer International Publishing, pp. 93–110.
- Kempener, Ruud, Edi Assoumou, Alessandro Chiodi, Umberto Ciorba, Maria Gaeta, Dolf Gielen, Hiroshi Hamasaki, Amit Kanudia, Tom Kober, Maryse Labriet, Nadia Maïzi, Brian Ó Gallachóir, Deger Saygin, Júlia Seixas, Nicholas Wagner, and Evelyn Wright (2015). “A Global Renewable Energy Roadmap: Comparing Energy Systems Models with IRENA’s REmap 2030 Project”. In: *Informing Energy and Climate Policies Using Energy Systems Models*. Ed. by George Giannakidis, Maryse Labriet, Brian Ó Gallachóir, and GianCarlo Tosato. Vol. 30. Lecture Notes in Energy. Cham, Switzerland: Springer International Publishing, pp. 43–67.
- Glynn, James, Patrícia Fortes, Anna Krook-Riekkola, Maryse Labriet, Marc Vielle, Socrates Kypreos, Antti Lehtilä, Peggy Mischke, Hancheng Dai, Maurizio Gargiulo, PerIvar Helgesen, Tom Kober, Phil Summerton, Bruno Merven, Sandrine Seloisse, Kenneth Karlsson, Neil Strachan, and Brian Ó Gallachóir (2015a). “Economic Impacts of Future Changes in the Energy System – Global Perspectives”. In: *Informing Energy and Climate Policies Using Energy Systems Models*. Ed. by George Giannakidis, Maryse Labriet, Brian Ó Gallachóir, and GianCarlo Tosato. Vol. 30. Lecture Notes in Energy. Cham, Switzerland: Springer International Publishing, pp. 333–358.
- Glynn, James, Patrícia Fortes, Anna Krook-Riekkola, Maryse Labriet, Marc Vielle, Socrates Kypreos, Antti Lehtilä, Peggy Mischke, Hancheng Dai, Maurizio Gargiulo, PerIvar Helgesen, Tom Kober, Phil Summerton, Bruno Merven, Sandrine Seloisse, Kenneth Karlsson, Neil Strachan, and Brian Ó Gallachóir (2015b). “Economic Impacts of Future Changes in the Energy System – National Perspectives”. In: *Informing Energy and Climate Policies Using Energy Systems Models*. Ed. by George Giannakidis, Maryse Labriet, Brian Ó Gallachóir, and GianCarlo Tosato. Vol. 30. Lecture Notes in Energy. Cham, Switzerland: Springer International Publishing, pp. 359–387.
- Tavoni, M., E. Kriegler, K. Riahi, D. van Vuuren, T. Aboumahboub, A. Bowen, K. Calvin, E. Campiglio, T. Kober, J. Jewell, G. Luderer, G. Marangoni, D. McCollum, M. van Sluisveld, A. Zimmer, and B. van der Zwaan (2014a). “Post-2020 climate agreements in the major economies assessed in the light of global models”. In: *Nature Climate Change*. DOI: 10.1038/NCLIMATE2475.
- Kober, T. (2014a). *Energiewirtschaftliche Anforderungen an neue fossil befeuerte Kraftwerke mit CO<sub>2</sub>-Abscheidung im liberalisierten europäischen Elektrizitätsmarkt*. Forschungsbericht Band 107. Stuttgart: Institut für Energiewirtschaft und Rationelle Energieanwendung.

- Mikunda, Tom, Tom Kober, Heleen de Coninck, Morgan Bazilian, Hilke Rösler, and Bob van der Zwaan (2014). “Designing policy for deployment of CCS in industry”. In: *Climate Policy*. DOI: 10.1080/14693062.2014.905441.
- Kober, T., B.C.C. van der Zwaan, and H. Rösler (2014). “Emission Certificate Trade and Costs under Regional Burden- Sharing Regimes for a 2°C Climate Change Control Target”. In: *Climate Change Economics* 5.1, pp. 1–32.
- Jewell, J., A. Cherp, V. Vinichenko, N. Bauer, T. Kober, D. McCollum, D. van Vuuren, and B. van der Zwaan (2013). “Energy security of China, India, the EU and the US under long-term scenarios: Results from six IAMs”. In: *Climate Change Economics* 4.4, pp. 1–33.
- Tavoni, M., E. Kriegler, T. Aboumahboub, K. Calvin, G. De Maere, J. Jewell, T. Kober, P. Lucas, G. Luderer, D. McCollum, G. Marangoni, K. Riahi, and D. van Vuuren (2013). “The distribution of the major economies’ effort in the Durban platform scenarios”. In: *Climate Change Economics* 4.4, pp. 1–25.
- Zwaan, B. van der, H. Rösler, T. Kober, T. Aboumahboub, K. Calvin, D. Gernaat, G. Marangoni, and D. McCollum (2013b). “A Cross-model Comparison of Global Long-term Technology Diffusion under a 2°C Climate Change Control Target”. In: *Climate Change Economics* 4.4. 1340013, pp. 0–24.
- Zwaan, B. van der, L. Cameron, and T. Kober (2013a). “Potential for renewable energy jobs in the Middle East”. In: *Energy Policy* 60.0, pp. 296–304. DOI: <http://dx.doi.org/10.1016/j.enpol.2013.05.014>.
- Blesl, Markus, Tom Kober, Ralf Kuder, and David Bruchof (2012). “Implications of different climate protection regimes for the EU-27 and its member states through 2050”. In: *Climate Policy* 12.3, pp. 301–319. DOI: 10.1080/14693062.2011.637815.
- Blesl, M., D. Bruchof, U. Fahl, T. Kober, R. Kuder, B. Götz, and A. Voß (2011b). *Integrierte Szenarioanalysen zu Energie- und Klimaschutzstrategien in Deutschland in einem Post-Kyoto-Regime*. Research report No. 106. Stuttgart.
- Ramirez, A., R. Hoefnagels, M. van den Broek, N. Strachan, A. Fidje, K. Espegren, P. Seljom, M. Blesl, T. Kober, P. E. Grohnheit, and M. Lüthje (2011). “A comparison of national CCS strategies for Northwest Europe, with focus on the potential of common CO<sub>2</sub> storage at the Utsira formation”. In: *Energy Procedia* 4, pp. 2401–2408.
- Strachan, N., R. Hoefnagels, A. Ramirez, M. van den Broek, A. Fidje, K. Espegren, P. Seljom, M. Blesl, T. Kober, and P. E. Grohnheit (2011). “CCS in the North Sea region: A comparison on the cost-effectiveness of storing CO<sub>2</sub> in the Utsira formation at regional and national scales”. In: *International Journal of Greenhouse Gas Control* 5, pp. 1517–1532.
- Voß, A., T. Kober, S. Wissel, and U. Fahl (2011). *Braunkohlenkraftwerke als energiewirtschaftliche Neubauoption*. Essen: RWE power:perspektiven 2011.
- Blesl, M. and T. Kober (2010). “Bedeutung von CO<sub>2</sub>-Transport- und Speicheroptionen im europäischen Energiesystem”. In: *Zeitschrift für Energiewirtschaft* 34.4, pp. 285–301.
- Blesl, M., T. Kober, D. Bruchof, and R. Kuder (2010). “Effects of climate and energy policy related measures and targets on the future structure of the European energy system in 2020 and beyond”. In: *Energy Policy*, p. 15.
- Fahl, U., M. Blesl, A. Voß, D. Bruchof, B. Götz, T. Kober, R. Kuder, M. Frondel, P. Grösche, N. Ritter, M. Preistrup, T. Schmidt, C. Vance, A. Löschel, T. Mennel, and N. Wölfing (2010c). “Die Entwicklung der Energiemärkte bis 2030: Energieprognose 2009”. In: *BWK – Das Energie-Fachmagazin*. Ed. by VDI Verein Deutscher Ingenieure, pp. 6–12.

- Blesl, M., T. Kober, D. Bruchof, and R. Kuder (2008b). “Beitrag von technologischen und strukturellen Veränderungen im Energiesystem der EU-27 zur Erreichung ambitionierter Klimaschutzziele”. In: *Zeitschrift für Energiewirtschaft* 04, pp. 219–229.
- Blesl, M., U. Fahl, T. Kober, and A. Voß (2007b). “Anwendung der Parametrischen Programmierung zur Bewertung von neuen fossilen Kraftwerken im europäischen Strommarkt aus energiewirtschaftlicher Perspektive”. In: *VDI-Berichte* 2018, pp. 175–185.
- Blesl, M., D. Bruchof, U. Fahl, T. Kober, and A. Voß (2007a). “Kraftwerksinnovationen für Europa – Energiewirtschaftliche Anforderungen an neue fossil befeuerte Kraftwerke”. In: *BWK* 59.1/2, pp. 64–68.
- Kober, T. (2005). *Nutzung Erneuerbarer Energien zur Stromerzeugung in Entwicklungs- und Schwellenländern am Beispiel der Biomassenutzung in Südostasien*. Hochschule Bremen.

## Research reports and policy papers

- Panos, E., T. Kober, R. Kannan, and S. Hirschberg (2021). *Long-term Energy Transformation Pathways - Integrated Scenario Analysis with the Swiss TIMES Energy systems Model*. SCCER Joint Activity Scenarios and Modelling final PSI project report.
- Kober, T., R. Kannan, M. Obrist, E. Panos, S. Heald, L. Clements, M. Goldman, and H. Pollitt (2020a). *Swiss Industry: Price Elasticities and Demand Developments for Electricity and Gas (SWIDEM)*. SWIDEM final project report to the Swiss Federal Office of Energy.
- Panos, E. and T. Kober (2021). *Report on energy model analysis of the role of H2-CCS systems in Swiss energy supply and mobility with quantification of economic and environmental trade-offs, including market assessment and business case drafts*. Final PSI project report to the EU-H2020 project ELEGANCY.
- Kober, T., R. Kannan, R. Pietzcker, P. Deane, and F. Fuso-Nerini (2020b). *Research and Innovation Needs for Clean Energy Supply*. Policy Brief of the EU-Project: Dialogue on European Decarbonisation Strategies (DEEDS).
- Slob, A., R. Olivadese, A. Velazques Abad, E. Beianu, J. Brouwer, T. Brunelle, P. Deane, T. Kober, A. Lorenz, G. Luderer, F. Fuso-Nerini, R. Pietzcker, R. Kannan, R. Rodrigues, E. Verdolini, Z. Vrontisi, and M. Willems (2020). *Research and Innovation Agenda*. Dialogue on European Decarbonisation Strategies (DEEDS).
- Engström, R., F. Fuso-Nerini, C. Cassen, S. Luh, V. Viguie, T. Kober, P. Deane, and M. Hamdi-Cherif (2020). *Research and Innovation Needs to Decarbonise European Cities*. Policy Brief of the EU-Project: Dialogue on European Decarbonisation Strategies (DEEDS).
- Levesque, A., R. Pietzcker, R. Rodrigues, C. Bauer, T. Kober, and P. Kolp (2020). *DEEDS Knowledge base*. Technology database published in the EU-project: Dialogue on European Decarbonisation Strategies (DEEDS).
- Fiedl, M., T. Kober, K. Ramachandran, and J. Mühlethaler (2018). *Saisonale Flexibilisierung einer nachhaltigen Energieversorgung der Schweiz*. Fokusstudie für das Forum Energiespeicher Schweiz.
- European Commission (2018). *Final Report of the High-Level Panel of the European Decarbonisation Pathways Initiative*. European Commission - Directorate-General for Research and Innovation.
- Densing, Martin, Kannan Ramachandran, Evangelos Panos, and Tom Kober (2018). *Long-term role of Swiss Hydropower from an Energy Systems and Market Perspective*. Verband der Schweizerischen Elektrizitätsindustrie (VSE).

- Zwaan, B. van der, T. Kober, F. Dalla Longa, A. van der Laan, and G. J. Kramer (2017). *Energy Requirements and Feasibility of Low-Carbon Development in Africa*. TRANSRrisk project report.
- Shivakumar, A., J. Anjo, M. Miller, S. Pye, P. Boutinard-Rouelle, M. Densing, and T. Kober (2017). *Smart energy solutions in the EU: State of play and measuring progress*. Ed. by INSIGHT\_E Policy Report No. 10.
- Fuchs, A., T. Demiray, E. Panos, R. Kannan, T. Kober, C. Bauer, W. Schenler, P. Burgherr, and S. Hirschberg (2017). *ISCHESS - Integration of stochastic renewables in the Swiss electricity supply system - Final Rproject report*. Switzerland.
- Shivakumar, A., A. Faure, B. Normark, S. Gupta, T. Kober, Ch. Bauer, and Z. Xiaojin (2016). *Electricity storage in a redesigned market*. Ed. by INSIGHT\_E Rapid Response Energy Brief No. 12.
- Falzon, J., B. van der Zwaan, T. Kober, R. Schaeffer, A. Lucena, N. Di Sboiavacca, J. Veysey, M. Davis, P. Summerton, B. van Ruiven, L. Clarke, K. Calvin, C. Octaviano, and S. Calderon (2016). *Climate change mitigation in Latin America*. CLIMACAP-LAMP project policy report.
- Ruiz, P., A. Sgobbi, W. Nijs, Ch. Thiel, F. Dalla Longa, T. Kober, B. Elbersen, and G. Hengveld (2015). *The JRC-EU-TIMES model. Bioenergy potentials for EU and neighbouring countries*. Petten: Joint Research Centre of the European Commission.
- Kober, T. (2014c). *Impact of Energy Efficiency Measures on Greenhouse Gas Emission Reduction*. Report for project KEBMIN-EE\_for\_GAP2014. Amsterdam, The Netherlands: Energy research Centre of the Netherlands (ECN), ECN-E-14-038.
- Tavoni, M., E. Kriegler, K. Riahi, D. van Vuuren, N. Petermann, J. Jewell, S. Herreras Martinez, S. Rao, M. van Sluisveld, A. Bowen, A. Cherp, K. Calvin, G. Marangoni, D. McCollum, B. van der Zwaan, T. Kober, and H. Rösler (2014b). *Limiting Global Warming to 2°C - Policy findings from Durban Platform scenario analysis*. LIMITS project report.
- Halstead, M., T. Kober, and B. van der Zwaan (2014). *Understanding the Energy-Water Nexus*. Project report. Amsterdam, The Netherlands: Energy research Centre of the Netherlands (ECN), ECN-E-14-046.
- Kober, T., H. de Coninck, T. Mikunda, and M. Bazilian (2012a). *CCS in industry: the case for an undervalued mitigation option*. Amsterdam: Cato2 work package 2.3 project report D09, ECN-O-12-040.
- Mikunda, T. and T. Kober (2012). *CCS in Emerging Economies - Identifying the role for CCS*. Cato2 work package 2.3 project report D07.
- Kober, T., U. Fahl, M. Blesl, and A. Voß (2012b). *Energiewirtschaftliche Bedeutung der Braunkohlenutzung in Deutschland*. Stuttgart: Institut für Energiewirtschaft und Rationelle Energieanwendung.
- Blesl, M., D. Bruchof, U. Fahl, T. Kober, R. Kuder, R. Beestermöller, B. Götz, and A. Voß (2011a). *Auswirkungen veränderter Laufzeiten für Kernkraftwerke in Deutschland - Szenarioanalysen bis zum Jahr 2035*. Working paper No. 10. Stuttgart: Institut für Energiewirtschaft und Rationelle Energieanwendung.
- Kober, T. and M. Blesl (2010b). *Analysis of potentials and costs of storage of CO<sub>2</sub> in the Utsira aquifer in the North Sea, Regional Analysis*. Final Report for the FENCO ERANET project, Work Package 4. Stuttgart: Institut für Energiewirtschaft und Rationelle Energieanwendung.

- Kober, T. and M. Blesl (2010a). *Analysis of potentials and costs of CO<sub>2</sub> storage in the Utsira aquifer in the North Sea; Country report - Germany*. Institut für Energiewirtschaft und Rationelle Energieanwendung.
- Fahl, U., M. Blesl, A. Voß, P. Achten, D. Bruchof, B. Götz, M. Hundt, S. Kempe, T. Kober, R. Kuder, R. Küster, J. Lambauer, M. Ohl, U. Remme, N. Sun, V. Wille, S. Wissel, I. Ellersdorfer, F. Kesicki, M. Frondel, P. Grösche, M. Peistrup, N. Ritter, C. Vance, T. Zimmermann, A. Löschel, G. Bühler, T. Hoffmann, T. Mennel, and N. Wölfing (2010b). *Die Entwicklung der Energiemärkte bis 2030 - Energieprognose 2009*. Tech. rep. Institut für Energiewirtschaft und Rationelle Energieanwendung (IER), Rheinisch-Westfälisches Institut für Wirtschaftsforschung (RWI), Zentrum für Europäische Wirtschaftsforschung (ZEW).
- Fidje, A., K. Espegren, M. Wangen, P. Seljom, A. Ramirez, R. Hoefnagels, Z. Wu, M. van den Broek, N. Strachan, M. Blesl, T. Kober, P. E. Grohnheit, and M. Lüthje (2010). *Analysis of potentials and costs of CO<sub>2</sub> storage in the Utsira aquifer in the North Sea*. Final Report for the FENCO ERA-NET project. Institute for Energy Technology, Copernicus Institute-Utrecht University, University College London, University of Stuttgart, RisøDTU.
- Remme, U., M. Blesl, and T. Kober (2009). *The Dual Solution of a TIMES Model: its interpretation and price formation equations*. Tech. rep. Energy Technology Systems Analysis Programme (ETSAP).
- Kuder, R., M. Blesl, T. Kober, and D. Bruchof (2008). *Final energy reduction potential within the European industry sector - Analysis by modelling a white certificate trading scheme with TIMES PanEU*. Semi-annual ETSAP Workshop 2008. Sophia Antipolis: ETSAP (Energy Technology Systems Analysis Programme).
- Blesl, M., T. Kober, and D. Bruchof (2008a). *The role of technologies and structural changes in the energy system of the EU 27 to achieve the 450 ppm target*. Paris: ETSAP (Energy Technology Systems Analysis Programme).
- Blesl, M., T. Kober, D. Bruchof, U. Fahl, and A. Voß (2006). *Energiewirtschaftliche Anforderungen an neue Kraftwerke, Forschungsinitiative ‚KW21‘, - Zwischenbericht 2006*. Forschungsinitiative KW21 Teilprojekt E 4a Energiewirtschaftliche Anforderungen und Investitionsentscheidungen für neue Kraftwerke im liberalisierten Markt. Stuttgart: Institut für Energiewirtschaft und Rationelle Energieanwendung.

## Conference proceedings

- Panos, E., T. Kober, and K. Ramachandran (2017). “Die Bedeutung von Flexibilitätsoptionen und Netzen für die langfristige Entwicklung des schweizer Elektrizitätssystems”. In: *12. VDI-Fachtagung Optimierung in der Energiewirtschaft 2017*. Ed. by VDI-Bericht 2303, pp. 47–60.
- Kober, T. and M. Blesl (2008a). “Technische und energiewirtschaftliche Rahmenbedingungen für eine CCS-basierte Erzeugungsstruktur in Europa”. In: *40. Kraftwerkstechnisches Kolloquium 2008 am 14. und 15. Oktober 2008, – Künftiges Brennstoff- und Technologieportfolio in der Kraftwerkstechnik 2*, pp. 258–268.
- Blesl, M., T. Kober, and U. Fahl (2007c). “Role of Technology Progress on Investment Decisions in the European Electricity Market”. In: *The European Electricity Market (EEM) (Cracow, May 24, 2007)*.

## Presentations

- Kober, T. and E. Panos (2021). “Experiences on increasing the spatial and temporal resolution of TIMES models”. In: IEA-ETSAP lunch seminar (webinar, Feb. 23, 2021).
- Kober, T. and E. Panos (2020d). “Langfristperspektiven für das Schweizer Energiesystem im internationalen Kontext”. In: Fachhochschule Nordwest-Schweiz *Transfer Transparent* (invited talk) (webinar, Dec. 1, 2020).
- Kober, T. (2020a). “Perspectives of Power-to-X Technologies in Switzerland”. In: Swiss Federal Office of Energy’s *Energy Research Conference* (webinar, Nov. 20, 2020).
- Kober, T. and E. Panos (2020a). “Die Energielandschaft im Wandel – Zukünftige Dekarbonisierungsszenarien für die Schweiz”. In: Energie-Apéros Aargau (invited talk) (webinar, Oct. 21, 2020).
- Kober, T. and E. Panos (2020b). “Energiesystemanalysen und Szenarien – Reflektionen über die zukünftige Umgestaltung des Energiesystems”. In: Industriewelt Baden - Exhibition *Unter Strom* (invited talk) (webinar, Sept. 24, 2020).
- Kober, T. and E. Panos (2020c). “Energy System Transformation Challenges for Switzerland - an integrated model-based analysis”. In: Austrian Institute of Technology (AIT) - Scientific Energy Lecture (invited talk) (webinar, July 16, 2020).
- Kober, T. and E. Panos (2020e). “Szenarien für das Schweizer Energiesystem im internationalen Kontext”. In: VSE Forschungstagung "Aktuelles aus der Energieforschung" (invited talk) (June 26, 2020).
- Kober, T. (2020c). “Zukünftige Strukturen des Schweizer Energiesystems unter verschiedenen energiepolitischen Zielsetzungen”. In: Impulsvortrag auf der Ostschweizer Regierungskonferenz (invited talk) (Davos, Mar. 12, 2020).
- Kober, T. (2020b). “Weissbuch Power-to-X: Perspektiven in der Schweiz mit Fokus auf den Verkehrssektor”. In: ETH-Tagungsreihe "Aspekte der individuellen Mobilität" (invited talk) (Zürich, Jan. 30, 2020).
- Kober, T. (2019b). “Power-to-X: Perspectives in Switzerland”. In: Launch event of the White Paper on Power-to-X (Zürich, July 8, 2019).
- Kober, T. (2019a). “Energy Modelling Perspectives to support the Transition of the Energy Sector”. In: Business NZ Energy Council: Understanding the future energy environment through modelling (invited talk) (Wellington, New Zealand, May 8, 2019).
- Kober, T. and E. Panos (2018b). “Energy system implications of a well-below 2C emissions trajectory”. In: Annual conference of the Centre for Sustainable Energy Studies (invited talk) (Oslo, Norway, Nov. 22, 2018).
- Kober, T. (2018). “Power-to-X Technologies and their Market Environment in Switzerland”. In: 7<sup>th</sup> Symposium Heat and Electricity Storage (Rapperswil, Nov. 6, 2018).
- Panos, E. and T. Kober (2018). “Langfristige Perspektiven von Speicheroptionen und alternativen Flexibilitätsoptionen in der Schweiz”. In: Energie und Umweltforum der Züricher Hochschule für Angewandte Wissenschaften (invited talk) (Winterthur, Oct. 24, 2018).
- Panos, E., M. Densing, and T. Kober (2018). “Langfristige Preisentwicklungen im Strommarkt”. In: SWISSCLEANTECH tutorial *Die Funktion des Strommarktes und die Folgen für den Strompreis* (invited talk) (Zürich, Oct. 23, 2018).
- Kober, T., M. Yazdanie, and M. Densing (2018c). “Energiedrehscheibe Basel-Stadt: Untersuchung langfristiger Energiebereitstellungspfade für Basel unter Berücksichtigung nationaler Energiepolitiken”. In: 18<sup>th</sup> Workshop of IG Smart City Switzerland (invited talk) (Bern, Aug. 30, 2018).

- Kober, T., E. Panos, M. Densing, and K. Ramachandran (2018b). “Zukünftige Rolle der Schweizer Wasserkraft im Gesamtenergiesystem”. In: Fachtagung des Verbandes der Schweizerischen Elektrizitätswirtschaft (VSE) - *Die Zukunft der Wasserkraft* (invited talk) (Olten, June 27, 2018).
- Kober, T. and E. Panos (2018a). “Energy System Challenges of deep global CO<sub>2</sub> emissions reduction under the World Energy Council’s scenario framework”. In: 37<sup>th</sup> International Energy Workshop (Gothenburg, Sweden, June 19, 2018).
- Kober, T. and E. Panos (2018c). “Long-term evaluation of electricity-based storage technologies vs alternative flexibility options for the Swiss energy system”. In: Quarterly meeting of the Studiengruppe Energieperspektiven (Baden, Mar. 23, 2018).
- Kober, T., M. Friedl, and J. Mühlethaler (2018a). “Saisonale Flexibilisierungsmöglichkeiten der Energieversorgung in der Schweiz”. In: Roundtable of the Forum Energiespeicher Schweiz (Bern, Feb. 28, 2018).
- Kober, T., E. Panos, and K. Ramachandran (2017a). “Die Bedeutung von Flexibilitätsoptionen und Netzen für im Schweizer Elektrizitätssystem”. In: Fachtagung des Verbandes der Deutschen Industrie (VDI) *Optimierung in der Energiewirtschaft* (Würzburg, Nov. 8, 2017).
- Kober, T., E. Panos, K. Volkart, and S. Hirschberg (2017b). “World Energy Scenarios 2016”. In: World Resources Forum (Geneva, Oct. 24, 2017).
- Kober, T., M. Yazdanie, and M. Densing (2017c). “Energiedrehscheibe Basel-Stadt: Langfristuntersuchungen der zukünftigen Basler Energielandschaft basierend auf einem ökonomischen Optimierungsmodell”. In: novatlantis-Bauforum (invited talk) (Basel, June 21, 2017).
- Kober, T. and E. Panos (2016a). “Highlights from the Global Scenario Study of the World Energy Council in partnership with PSI”. In: ETSAP semi-annual workshop (Madrid, Nov. 17, 2016).
- Kober, T. and E. Panos (2016b). “World Energy Scenarios 2016”. In: CEPE Lunch Seminar (Zürich, Nov. 4, 2016).
- Kober, T. and K. Ramachandran (2016a). “Energy Scenario Modelling - a general overview and selected results from PSI”. In: SCCER Supply of Electricity PhD School (Leukerbad, Oct. 19, 2016).
- Kober, T. and K. Ramachandran (2016b). “Integrated assessment of energy storage technologies for Switzerland”. In: Japanese-Swiss Workshop: H<sub>2</sub> Technologies and Energy Storage (Tokio, Oct. 5, 2016).
- Kober, T. (2015a). “Energy Supply Investments in Latin America under Climate Control Policy”. In: *Scientific conference: Our common future under climate change*. Paris, France.
- Kober, T. (2015b). “Energy Supply Investments in Latin America under Climate Control Policy”. In: *International Energy Workshop*. Abu Dhabi, United Arab Emirates.
- Kober, T. (2014b). “GHG emission reduction due to energy efficiency measures under climate policy”. In: *ETSAP semi-annual workshop*. Copenhagen, Denmark.
- Kober, T. and P. Summerton (2014). “Climate change mitigation in Latin America”. In: *ETSAP semi-annual workshop*. Copenhagen, Denmark.
- Kober, T. (2014d). “Uncertain CCS power plant parameters - Do they matter for CCS deployment in Europe?” In: *International Energy Workshop*. Beijing, China.
- Kober, T., B. van der Zwaan, and H. Rösler (2013). “The Role of Burden Sharing Regimes for Reaching a 2°C Climate Target”. In: *International Energy Workshop*. Paris, France.

- Kober, T. (2013a). “Pathway to Reach a 2°C Climate Stabilisation”. In: *ETSAP semi-annual workshop*. Paris, France.
- Kober, T. (2013b). “Renewable Energy Deployment for Reaching a 2°C Climate Stabilisation”. In: *ETSAP semi-annual workshop*. Paris, France.
- Cameron, L., B. van der Zwaan, and T. Kober (2013). “Employment in renewables: a literature review and case study”. In: *International Energy Workshop*. Paris, France.
- Kober, T. (2012). “The role of CCS under different climate targets in Europe”. In: *International Energy Workshop*. Cape Town, South Africa.
- Kober, T. and M. Blesl (2010c). “Perspectives of CCS power plants in Europe, considering uncertain power plant parameters”. In: *International Energy Workshop (IEW)*. Stockholm, Sweden.
- Kober, T. (2010). “Technische und ökonomische Aspekte des CO<sub>2</sub>-Transports”. In: *2. Süd-deutsches CCS Symposium* (May 19, 2010). Stuttgart.
- Fahl, U., M. Blesl, J. Apfelbeck, R. Barth, R. Beestermöller, D. Bruchof, B. Götz, M. Hundt, T. Kober, R. Kuder, and N. Sun (2010a). *Annahmen, Methodik und Ergebnisse von Energieszenarien für Deutschland*. Göttingen: Energie-Forschungszentrum Niedersachsen, Bundesnetzagentur.
- Kober, T. and M. Blesl (2009b). “Perspectives of CCS power plants under different climate policy regimes in Europe”. In: *International Energy Workshop*. Venedig: International Center for Climate Governance, Fondazione Eni Enrico Mattei, Fondazione Giorgio Cini, Euro-Mediterranean Center for Climate Change.
- Kober, T. and M. Blesl (2009a). “Carbon Infrastructure and Storage Options of Neighbouring Countries of the North Sea under European Climate Policy”. In: *ESF-FWF Research Conference: CO<sub>2</sub> Geological Storage: Latest Progress* (Oberurgl, Nov. 22, 2009).
- Blesl, M. and T. Kober (2009). *Implication of the EU Climate Policy for the EU27 and the Member States till 2020 and beyond*. International Energy Workshop (IEW) 2009, PLAN-ETS special session. Venedig: International Center for Climate Governance, Fondazione Eni Enrico Mattei, Euro-Mediterranean Center on Climate Change.
- Kober, T. and M. Blesl (2008b). “Technische und energiewirtschaftliche Rahmenbedingungen für eine CCS-basierte Erzeugungsstruktur in Europa”. In: *40. Kraftwerkstechnisches Kolloquium – Künftiges Brennstoff- und Technologieportfolio in der Kraftwerkstechnik* (Dresden, Oct. 14, 2008).
- Blesl, M., T. Kober, D. Bruchof, and R. Kuder (2008c). *EU 20-20 policy implications on the EU energy system – an analysis with TIMES PanEU*. Semi-annual ETSAP Workshop 2008. Sophia Antipolis: ETSAP (Energy Technology Systems Analysis Programme).
- Kober, T., M. Blesl, and U. Fahl (2007). “Role of Technology Progress on Investment Decisions in the European Electricity Market”. In: *The European Electricity Market (EEM) conference* (Cracow, May 24, 2007).