

ABOUT ME

About me

June 2016 - Present

Professor at SRH University Heidelberg

January 2013 - May 2016

German Aerospace Center (DLR) - Institute of Vehicle Concepts

Team leader / Project leader – Road vehicles

June 2010 - December 2012

University of Stuttgart - Institute of Energy Economics and Rational Energy Use

Team leader

October 2005 - May 2010

University of Stuttgart - Institute of Energy Economics and Rational Energy Use

Research Assistant

September 2002 - September 2005

Middle East Technical University (Ankara/Turkey)

Teaching Assistant (Mechanical Engineering Department)

EXCERPT

I have contributed to these publications

Peer-Review

Kugler, U., Ehrenberger, S., Brost, M., Dittus H., and Özdemir, E.D., 2016, "Real-world driving, energy demand and emissions of electrified vehicles", Journal of Earth Sciences and Geotechnical Engineering, Volume 6, Issue 4 - (Special Issue: Transport and Air Pollution)

Redelbach, M., Özdemir, E.D., Friedrich, H.E., 2014, Optimizing battery sizes of plug-in hybrid and extended range electric Vehicles for different user types", Energy Policy, Volume 73, Pages 158-168

Felsnig, T., Tomaschek, J., Özdemir, E.D., Bruchof, D., Fahl, U., Eltrop, L., 2013, "Assessment of selected CCS technologies in electricity and synthetic fuel production for CO2 mitigation in South Africa", Energy Policy, Volume 63, Pages 168–180

Özdemir, E.D., Hartmann, N., 2012, "Impact of electrical range and fossil fuel prices on the economics of plugin hybrid vehicles and GHG abatement costs in Germany", Energy Policy, Volume: 46 Pages: 185-192

Özdemir, E.D., Marathe, S. D., Tomaschek, J., Dobbins, A., Eltrop, L., 2012, "Economic and environmental analysis of solar water heater utilization in Gauteng province, South Africa", Journal of Energy in Southern Africa (SCI-Expanded), Volume: 23 Issue: 2 Pages: 2-19

~~T~~omaschek, J., Özdemir, E.D., Fahl, U., Eltrop, L., 2012, "Greenhouse Gas Emissions and Abatement Costs of Biofuel Production in South Africa", Global Change Biology Bioenergy, Volume: 4 Issue: 6 Pages: 799-810

~~G~~ardoso, R.S., Özdemir, E.D., Eltrop, L., 2012, "Environmental and economic assessment of international bioethanol trade options for the German transport sector", Biomass and Bioenergy, Vol. 36, Pages 20-30

Özdemir, E.D., Härdtlein, M., Jenssen, T., Zech, D., Eltrop, L., 2011, "A confusion of tongues or the art of aggregating indicators – Reflections on three projective methodologies on sustainability measurement of renewable heating technologies", Renewable & Sustainable Energy Reviews, Volume 15, Issue 5, June 2011, Pages 2385-2396

Hartmann, N., Özdemir, E.D., 2011, "Impact of different utilization scenarios of electric vehicles on the German grid in 2030", Journal of Power Sources, Vol. 196, Issue: 4, Pages: 2311-2318

Goyns, P., Özdemir, E.D., 2011, "Characterizing emissions from private passenger vehicles using engine operating patterns", Int. J. Environmental Engineering, Vol. 3, No. 1, pages 83-99

Özdemir, E.D., Härdtlein, M., Eltrop, L., 2009, "Land substitution effects of biofuel side products and implications on the land area requirement for EU 2020 biofuel targets", Energy Policy, Volume 37, Issue 8, Pages 2986-2996

Özdemir, E.D., Aksel, M. H. and Sisman; T. Ç., 2007, "Implementation of Rotation into a Two dimensional Euler Solver", Modeling, Simulation & Control B, Vol. 76, No.6, Pages: 1-19

Non Peer-Review

~~W~~eyrauther, S., Özdemir, E.D., 2018, „Analyse eines nach dem Atkinson-Zyklus arbeitenden Kurbeltriebs“, MTZ, Februar, 60-65

~~B~~rokate, J., Özdemir, E. D., Kugler, U., 2013, „Der PKW-Markt bis 2040: Was das Auto von morgen antreibt“, Projektbericht

~~B~~lesl, M., Bruchhof, D., Hartmann, N., Özdemir, E.D., Fahl, U., Eltrop, L., Voß, A., 2009, "Entwicklungsstand und Perspektiven der Elektromobilität", Projektbericht

Fahl, U., Härdtlein, M., Özdemir, E.D., Rath-Nagel, S., Remme, U., Eltrop, L., 2009, "Möglichkeiten der LNG-Nutzung in Baden-Württemberg ", Projektbericht

Peplowska, M., Härdtlein, M., Kruck, C., Özdemir, E.D., Eltrop, L., „Methodische Grundlagen und Beispiele für die Berechnung von CO₂- Vermeidungskosten für Biogasanlagen“, IER Veröffentlichungsreihe

~~I~~ER, DEU, VKF, ZES, 2007, "Evaluierung eines Gas-FlexFuel-Konzeptes zur Erzeugung und Nutzung biogener Kraftstoffe – Evaluation of a Gas-Flex Fuel Concept for Production and Utilization of Biogenic Fuels", Project Report

~~S~~wider, D., Voß, A., Özdemir, E.D., et al., 2006, "Guiding a least cost grid integration of res-electricity in an extended Europe. Case studies on conditions and costs for RES-E grid integration", Green-Net, Projektbericht

Book chapters

~~E~~ltrop, L., Härdtlein, M., Jenssen, T., Özdemir, E.D., Henßler, M., Kruck, C., (2014), "Grundlagen und Planung von Bioenergieprojekten ", FNR, Weidner, Rostock

~~E~~ltrop, L., Härdtlein, M., Jenssen, T., Henßler, M., Kruck, C., Özdemir, E.D., (2014), „Leitfaden Feste Biobrennstoffe“ Kapitel 1, 4, 5 und 6 in 2014 Edition, FNR, Weidner, Rostock

Özdemir, E.D., Marathe, S. D., (2013), "Ecological Footprint – the example of Gauteng region", Kapitel 4 in "Glances at Renewable and Sustainable Energy, –Principles, approaches and methodologies for an ambiguous benchmark", Jenssen, T.(Editor), Springer

Telsnig, T., Özdemir, E.D., Eltrop, L., (2013), „ The role of Concentrated Solar Power (CSP) plants for South Africa's electricity generation", Kapitel in "Energy and Sun", Eltrop, L., Telsnig, T., Fahl, U. (Editors), Jovis

Telsnig, T., Özdemir, E.D., Marathe, S.M., Tomaschek, J., Eltrop, L., (2013), „ Solar energy technologies – GHG abatement costs and potentials for Gauteng", Kapitel in "Energy and Sun", Eltrop, L., Telsnig, T., Fahl, U. (Editors), Jovis

Conference papers and lectures

Vorträge

Kleiner, F., Özdemir, E. D., Schmid, S. Beermann, M., Catay, B. Moran, B. Lim, O.T., Friedrich, H. E., 2015, "Electrification of transport logistic vehicles: A techno-economic assessment of battery and fuel cell electric transporter", EVS28 International Electric Vehicle Symposium, 3.-6. Mai, KINTEX, Korea.

Eltrop, L., Özdemir, E.D., Annegarn, H., 2010, "Sustainable energy supply for the urban poor – technology evaluation and experiences from South Africa and Gauteng City Region (EnerKey-Project)", AAG Annual Meeting, Washington D.C., USA

Özdemir, E.D., Marathe, S.D., Tomaschek, J., Eltrop, L., 2009, "Role of solar water heaters in Gauteng province", South Africa, ISES Solar World Conference 2009, Johannesburg, Südafrika

Özdemir, E.D., König, A., Eltrop, L., 2008, "Evaluation of biogas and biomass gasification pathways", BIOGASTECH workshop, TÜBITAK MRC Gebze Campus, Türkei

Özdemir, E.D., Härdtlein, M., Eltrop, L., 2007, "Auswirkungen des Handels von Bio-Treibstoffen zur Abdeckung der EU-Ausbauziele auf den Flächenbedarf ", 3. Forum Bioenergie Proceedings, Berlin

Konferenzbeiträge

Sehimeczek, C., Özdemir, E.D., Schmid, S., 2016, Effectiveness of Monetary and Non-Monetary Incentives on the Purchase of Plug-in Electric Vehicles Considering National and Regional Frameworks Within the European Union, ETC - European Transport Conference 2016, 5 - 7 October 2016, Barcelona.

Özdemir, E. D., Tosun, H. B., 2015, "Total Cost of Ownership Analysis for Passenger Cars in Turkey", International Association for Energy Economics -IAEE International Conference, 25-27. Mai. 2015, Antalya, Türkei

Rousseau, A., Stephens, T., Brokate, J., Özdemir, E. D., Klötzke, M., Schmid, S., Plötz, P., Badin, F., Ward, J., Lim, O.T., 2015, "Comparison of Energy Consumption and Costs of Different Plug-in Electric Vehicles in European and American Context", EVS28 International Electric Vehicle Symposium, 03.-06. Mai 2015, KINTEX, Südkorea.

Friedrich, H. E., Kevlishvili, N., Özdemir, E. D., 2014, Green Mobility - Technology Roadmap. SCCERMobility 1st Annual Conference, 11. September 2014, Zürich.

Jungmeier, G., Dunn, J. B., Elgowainy, A., Gaines, L., Ehrenberger, S., Özdemir, E. D., Althaus, H. J., Widmer, R., 2014, "Life cycle assessment of electric vehicles – Key issues of Task 19 of the International Energy Agency (IEA) on Hybrid and Electric Vehicles (HEV)", Proceedings of TRA 2014. Transport Research Arena 2014, 14.-17. April 2014, Paris, Frankreich

Özdemir, E. D., Ehrenberger, S., Kleiner, F., Gerner, S., Keller, M., 2014, "Integrated Assessment of Fuel Cell Powertrain

Concepts", H2 Expo, 23.-26. Sept. 2014, Hamburg.

Jungmeier, G., Dunn, J. B., Elgowainy, A., Özdemir, E. D., Ehrenberger, S., Althaus, H.J., Widmer, R., 2013, "Key Issues in Life Cycle Assessment of Electric Vehicles - Findings in the International Energy Agency (IEA) on Hybrid and Electric Vehicles (HEV)", EVS27 International Electric Vehicle Symposium, 17.-20. Nov. 2013, Barcenola, Spanien

Hartmann, N., Özdemir, E.D., 2010, "Impact of different charging strategies of electric vehicles on the german grid", Proceedings of ASME 4th international conference on energy sustainability, vol 1 pages: 811-817

Debbsins, A., Tomaschek, J., Özdemir, E.D., Fahl, U., Eltrop, L., 2009, "Advanced local energy planning using energy models: A case study of residential water heating in the Gauteng City Region", South Africa, International Conference 'Megacities: Risk, Vulnerability and Sustainable Development' Leipzig

Hartmann, N., Özdemir, E.D., Goyns, P., Ludger Eltrop, 2009, "Calculation of energy storage potential of electric vehicles in Germany", European Conference SmartGrids + Mobility, Würzburg

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König, A., Özdemir, E.D., Eltrop, L., 2007, "Analysis and evaluation of alternative pathways for the energetic use of biogenous gases, In: Tagungsband „Fortschritt beim Biogas – Development of Biogas Conference", Universität Hohenheim, Hohenheim

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