Peter Kolp

Energy Program
International Institute for Applied Systems Analysis (IIASA) kolp@iiasa.ac.at
2361 Laxenberg, Austria +43 2236 807 505

EXPERTISE

Energy models, software engineering, database, data visualization, web dissemination tools.

EDUCATION

1981 – 1990	Studies at the Technical University of Vienna Engineering / Traffic Engineering.
1981	Matura at the BORG in Oberpullendorf (general qualification for university entrance)

PROFESSIONAL APPOINTMENTS

2004 – present	Professional Programmer, IIASA, Energy Program, Laxenburg, Austria
1999 – 2004	IRM AG (www.irm.at)
1989 – 1999	TEMAPLAN GmbH (www.temaplan.at)

PUBLICATIONS

Refereed Journal Articles

2015 Schucht S, Colette A, Rao S, Holland M, Schoepp W, **Kolp P**, Klimont Z, Bessagnet B, Szopa S, Vautard R, Brignon J-M, Rouil L. Moving towards ambitious climate policies: monetised health benefits from improved air quality could offset mitigation costs in Europe. *Science & Policy, 50:252-269 (June 2015) (Published online 30 March 2015).*

2014 Blanco G. et al. Drivers, Trends and Mitigation. In: Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Reportof the Intergovernmental Panel on Climate Change. *Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.*

2014 Clarke L. et al. Assessing Transformation Pathways. In: Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. *Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.*

2013 McCollum,D.L. Krey,V. **Kolp,P**. Nagai,Y. Riahi,K. Transport electrification: A key element for energy system transformation and climate stabilization. *Climatic Change*, *Article in press (Published online 31 October 2013)* doi

2013 McCollum,D.L. Krey,V. Riahi,K. **Kolp,P.** Grubler,A. Makowski,M. Nakicenovic,N. Climate policies can help resolve energy security and air pollution challenges. *Climatic Change*, 119(2):479-494 doi

2012 Rao,S. Chirkov,V. Dentener,F. van Dingenen,R. Pachauri,S. Purohit,P. Amann,M. Heyes,C. Kinney,P. **Kolp,P.** Klimont,Z. Riahi,K. Schoepp,W**.** Environmental

modeling and methods for estimation of the global health impacts of air pollution. *Environmental Modeling & Assessment*, 17(6):613-622 doi

2007 Grubler,A. O'Neill,B.C. Riahi,K. Chirkov,V. Goujon,A. **Kolp,P.** Prommer,I. Scherbov,S. Slentoe,E. Regional, national, and spatially explicit scenarios of demographic and economic change based on SRES. *Technological Forecasting & Social Change*, 74(7):980-1029. doi

2006 Nakicenovic,N. **Kolp,P.** Riahi,K. Kainuma,M. Hanaoka,T. Assessment of emissions scenarios revisited. *Environmental Economics and Policy Studies*, 7:137-173

Other Publications

2013 Rogelj,J. Riahi,K. **Kolp,P**. The Emissions Gap Report 2013: A UNEP Synthesis Report pdf

2012 McCollum,D.L. Krey,V. Riahi,K. **Kolp,P.** Makowski,M. Schreck,B. The IIASA Energy-Multi Criteria Analysis Tool (ENE-MCA) pdf

2012 **Pachauri,S.** Nagai,Y. **Kolp,P. Riahi,K.** Schreck,B. (2012) The IIASA Energy Access Tool (Energy-ENACT). pdf

2011 Rao,S. Chirkov,V. Dentener,F. van Dingenen,R. Pachauri,S. Purohit,P. Amann,M. Heyes,C. Kinney,P. **Kolp,P.** Klimont,Z. Riahi,K. Schoepp,W. Estimation of the Global Health Impacts of Air Pollution. IASA Interim Report IR-11-035 pdf

2010 Rafaj,P. Rao,S. Klimont,Z. **Kolp,P.** Schoepp,W. Emissions of air pollutants implied by global long-term energy scenarios. IIASA Interim Report IR-10-019 pdf

2006 Furukawa, M. **Kolp, P.** Economic and Environmental performance of Natural Gas and Hydrogen Fueled Decentralized Energy Systems – A Life Cycle Analysis. Interim Report IIASA Contract No. 05-121, submitted to The Tokyo Gas Co., Ltd.

2005 Nakicenovic,N. Grubler,A. Chirkov,V. **Kolp,P.** Synthetic Fuel Technology Adoption under Climatic Constraints in the Asian Region. Research study conducted for the Environmental Research Center (ERC), Tsukuba, Japan; IIASA, Laxenburg, Austria link

INTERACTIVE WEB TOOLS

The IIASA Interactive Collaboration and Dissemination Tools ("databases" selected)

Global Energy Assessment Scenario Database	link	web
Representative Concentration Pathways Database	link	web
Greenhouse Gas Initiative Scenario Database	link	web

The IIASA Energy Access Tool (Energy-ENACT)	link	web
The IIASA Energy-Multi Criteria Analysis Tool (ENE-MCA)	link	web