

# Jessica Jewell

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## EDUCATION

- 2013 Ph.D. (summa cum laude) in Environmental Sciences and Policy, Central European University (CEU), Budapest.  
Thesis: *Energy security and climate change: Interaction in long-term global scenarios*.  
Advisor: A. Cherp. Committee: D. Ürge-Vorsatz, CEU; M. LaBelle, CEU; N. Hultman, University of Maryland; B. van der Zwaan, Energy Research Centre of the Netherlands
- 2009 M.Sc. (distinction) in Environmental Sciences Policy and Management, Lund University, University of Manchester and CEU
- 2004 B.A. (with honors) in Geological Sciences, Brown University

## WORK AND RESEARCH EXPERIENCE

- 2011 – present Research Assistant, the International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria
- 2011 Research Assistant, the International Energy Agency, Paris, France
- 2010 (part) Research Assistant in YSSP program and Consultant, IIASA
- 2009 – 2010 Junior Researcher, CEU
- 2008 – 2009 Research Assistant, Energy security chapter *Global Energy Assessment*
- 2006 – 2007 Geologist, Haley & Aldrich, McLean, VA
- 2004 – 2005 Geological Research Assistant, State College, PA

## PUBLICATIONS

### Refereed Journal Articles

- 2011 Cherp, A. & **Jewell, J.** Three perspectives on energy security. *Current Opinions in Environmental Sustainability*, 3 pp. 202-212.
- 2011 **Jewell, J.** Ready for nuclear?: An assessment of capacities, imperatives, and uncertainties for launching new national nuclear power programs. *Energy Policy*, 39 pp. 1041-1055.
- 2011 **Jewell, J.** A nuclear-powered North Africa: Just a desert mirage or is there something on the horizon? *Energy Policy*, 39 pp. 4445-4457.
- 2011 Cherp, A., **Jewell, J.**, Goldthau, A. Governing global energy: Systems, transitions, and complexity. *Global Policy*, 2: 1 pp. 75-88.

### Book Chapters

- 2013 Cherp, A. **Jewell, J.** Energy security assessment framework and three case-studies. in *International Handbook of Energy Security*. Ed. Maria Trombetta and Hugh Dyer. Edward Elgar publishing, pp. 146-173.
- 2012 Riahi, K. ... **Jewell, J.** ...et al. Sustainable energy transition scenarios. in *Global Energy Assessment*. International Institute for Applied Systems Analysis (IIASA): Laxenburg, Austria and Cambridge University Press: Cambridge, UK and New York, NY, USA, pp. 1203-1306.
- 2012 Cherp, A. ... **Jewell, J.** ...et al. Energy security. in *Global Energy Assessment*, pp. 325-384. *ibid.*
- 2011 Cherp, A., **Jewell, J.** Measuring energy security: from universal indicators to contextualized frameworks. In *Handbook of Energy Security*. Ed. Benjamin Sovacool. London: Routledge.

## Policy Publications

- 2012 Nakicenovic, N., Kammen, D., & **Jewell, J.** Technical report of Task Force 2 in support of doubling the global rate of energy efficiency improvement and doubling the share of renewable energy in the Global energy mix by 2030. *Sustainable Energy for All*. April.
- 2012 Yumkella, K., Nakicenovic, N., Bazilian, M. & **Jewell, J.** The sustainable energy for all initiative and climate change mitigation. *World Meteorological Bulletin*, 61:1.
- 2011 **Jewell, J.** *Measuring energy security*. International Energy Agency: Paris.
- 2011 **Jewell, J.** *The IEA Model of short-term energy security*. International Energy Agency: Paris.

## Manuscripts in Submission

- 2013 **Jewell, J.**, Cherp, A., Vinichenko, V., Bauer, N., Kober, T. McCollum, D., van Vuuren, D. & van der Zwaan, B. Energy security of China, India, the E.U. and the U.S. under long-term scenarios: Results from six IAMs. accepted to *Climate Change Economics* with minor revisions.
- 2013 Cherp, A., **Jewell, J.**, Vinichenko, V., Bauer, N., & De Cian, E. Global energy security under different climate policies, GDP growth rates and fossil resource availabilities. accepted to *Climatic Change* with minor revisions.
- 2013 **Jewell, J.**, Cherp, A. & Riahi, K. Energy security under low-carbon scenarios. submitted to *Energy Policy* October 2012.

## Manuscripts in Preparation

- Leung, G., Cherp A., Wei, F. and **Jewell, J.** Energy security in China: past and present of policies and realities (prepared for *Energy Strategy*).
- **Jewell, J.** and McCollum, D. Oil export revenues under climate policies.

## Other Publications

- 2012 Antonyuk, A. & **Jewell, J.** КОМПЛЕКСНОСТЬ ВЗГЛЯДОВ И ДЕЛ (Integrating views and actions). Oil in Russia (Нефть в России). 2012 Jun. 11:5, 30.
- 2011 Cherp, A. & **Jewell, J.** Disaster scenarios (letter). *Economist*. 399:8727.

## AWARDS AND HONORS

- 2012 Central European University Advanced Doctoral Student Award
- 2011 Central European University Outstanding First-year Student Award
- 2009 Outstanding Academic Achievement Award (best student in Master's class), CEU
- 2007 EU Erasmus Mundus Full Graduate Fellowship (tuition and €21,000/year stipend)
- 2005, 2009 Honorable Mention National Science Foundation Graduate Fellowship

## INVITED TALKS

- 2012 Lund University Centre for Sustainability Studies, Lund, Sweden, November 16.
- 2011 U.N. Sustainable Energy for All Task Force 2 on energy efficiency and renewable energy targets, Brussels, December 14.
- 2011 University of Maryland, Department of Public Policy, November 8.
- 2011 Multi-stakeholder workshop in Canberra Australia on Australia's National Energy Security Assessment. Also gave a public lecture and an internal government seminar, May 12, 13.
- 2011 Australian National University, Canberra Australia, May 11.
- 2010 International Institute of Industrial Environmental Economics, Lund University, September 24.

- 2010 Invited Commentator. Towards A Nuclear Renaissance? Global Public Policy Institute & Brookings Institution. Transatlantic Global Energy Governance Dialogue Series. Potsdam, Germany, March 4-5.

## PRESENTATIONS AND CONFERENCES

- 2013 **Jewell, J.** Energy security of China, India, the E.U. and the U.S. under long-term scenarios: Results from six IAMs. *International Energy Workshop*. Paris, June 19-21.
- 2013 Chair of stakeholder workshop session: Climate mitigation in the context of multiple policies. *LIMITS Second Stakeholder Workshop*. Amsterdam, February 13.
- 2012 Rapporteur for Session 1: Global Transformations—Understanding the World We Live in and its Possible Futures. International Institute for Applied Systems Analysis, *World within reach: From science to Policy*. Vienna, October 24-26.
- 2012 **Jewell, J.** A framework for evaluating energy security under low-carbon transitions. *New Energy Security Challenges Post-graduate Conference*. London, May 10-11.
- 2011 **Jewell, J.** Energy Security under low-carbon transitions. *UK Energy Research Council summer school*. Warwick, June 26 – July 2.
- 2010 Cherp, A., Goldthau, A. and **Jewell, J.** Energy challenges: from local universalism to global contextualism. *Standing Group on International Relations*. Stockholm, September 9-11.
- 2010 **Jewell, J.** Possible expansion of nuclear energy: An assessment of national capacities and imperatives for nuclear power implementation in non-nuclear countries. *Sussex Energy Group Conference: Energy transitions in an interdependent World*. Brighton, February 25-26.
- 2010 **Jewell, J.** Contextualizing the nuclear renaissance: Mapping different national potentials. *LAEE European Conference: Energy Economy, Policies and Supply Security*. Vilnius, August 25-28.
- 2010 **Jewell, J.** Possible expansion of nuclear energy: An assessment of national capacities and imperatives for nuclear power implementation in non-nuclear countries. *Transatlantic Relations, Climate, and Energy Workshop*. Freie University, Berlin, November 28–December 6.
- 2009 **Jewell, J.** Energy security and climate change: Can we kill two birds with one stone. *Erasmus Mundus Conference on Climate Change and Higher Education*. CEU, Budapest, February 26-27.

## SERVICE

- 2012 Co-lead author and task force co-coordinator for the UN Sustainable Energy for All energy efficiency and renewable energy task force
- 2011 Internal reviewer of *Global Energy Assessment* policy messages

## TECHNICAL SKILLS, LANGUAGES, AND HOBBIES

R; Adobe Illustrator; LaTeX

Science communication courses: Royal Society of London. Jul 2011; Edward Tufte, Nov 2011.

English (mother-tongue); Spanish (fluent); French (proficient); Italian (proficient); Hungarian (intermediate)

Hobbies: presentation zen, technology-based collaboration, personal productivity, academic workflows, cognitive science, meditation, guitar, roller-blading, biking, swimming