



Daniel Scholten

I aim to contribute to a smooth energy transition, both domestically and globally, through fundamental and actionable knowledge on the geopolitics and governance of the energy transition.

Contact

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Experience (in years)

Research: 16

Teaching: 13

(Project) management: 11

Policy advice: 3

Skills

- Geopolitics, international relations, political economy, political science, economics, institutional economics
- Energy & resource security
- Energy & climate politics and governance
- Sustainability, societal transitions, energy scenarios
- Energy policy & regulation
- Qualitative research
- Teaching, supervision
- Project management

Languages

Dutch: Native

German: Native

English: Excellent, C2

Russian: Beginner, A1

Experience

08/2023 - 08/2025 **Visiting Assistant Professor** at the Center for Science, Technology, and Environmental Policy at the Humphrey School of Public Affairs, University of Minnesota, USA.

Research:

- Geopolitics of the energy transition
- Governance of sustainability

Teaching:

- Climate Change Policy
- Economics of Environmental Policy
- Geopolitics and Governance of the Energy Transition

09/2021 - 07/2023 **Senior Strategic Advisor Energy and Sustainability** at The Netherlands Authority for Consumers and Markets (and energy regulator), The Hague

11/2011 - 08/2021 **Assistant professor** (tenured) at the Faculty of Technology, Policy and Management, Delft University of Technology

Research:

- Geopolitics of renewable energy, energy security
- Governance of energy systems, market regulation
- Transitions to sustainability, energy scenarios

Main projects/grants:

- 2 volumes on the geopolitics of the energy transition
- Organization of over 30 conferences, workshops, sessions
- ERASMUS+ simulation game on the geopolitics of the energy transition, 265.000 euro, with the Universities of Stavanger, Ghent, and Munich
- The external dimension of the European Green Deal, 87.500 euro, with Clingendael Institute, for the European Climate Foundation
- NWO-TRAPESES - Transition patterns enabling smart energy systems, 132.000 euro, together with DRIFT, Erasmus University Rotterdam

Computer skills

- Microsoft Office (Word, Excel, PowerPoint)
- Statistical Package for the Social Sciences (SPSS)

Characteristics

- Reliable
- Independent
- Social
- Analytical
- Innovative

Personal interests

- History and theory of international and European relations, the rise and fall of great powers
- Nature, climate change and the environment
- Member of the European Movement of The Netherlands
- Skiing, tennis, hiking in mountains

Consulted expert and/or invited speaker at:

Organizations

- OECD
- IEA
- IRENA
- European Commission (DG-ENER and EPC-EEAS)
- CEPS
- Ministries of Foreign Affairs of the Netherlands, Norway, Germany, UK, and Italy

Academia

- Harvard University
- Yale University
- European University Institute
- King's College
- KAPSARC

- EDGaR D1 - Integrating local and regional energy systems for enhancing sustainability, 1.200.000 euro over 4 partners (TUD, ECN, TNO, KIWA)

Teaching:

- Socio-technology of Future Energy Systems, MSc, 2x/year
- Governance of Socio-Technical Systems, BSc
- Micro-economics (and regulation of infrastructures), BSc
- Supervised over 100 MSc theses
- Dutch University Teaching Qualification (UTQ), 12/2013
- Average student evaluation 2012-2021: 8,2 out of 10
- Studytour 2019 to Russia, Kazakhstan, and South Korea
- Member of BSc education committee, 2017-2021

07/2018 -
07/2021

Non-resident fellow, Payne Institute, Colorado School of Mines.

02/2018 -
01/2019

Member expert panel of the IRENA global commission on the geopolitics of energy transformation:
www.geopoliticsofrenewables.org.

06/2014 -
present

Guest lecturer on the Geopolitics of the Energy Transition at e.g. University of Oxford, University of Stavanger, Warwick Business School, Hebrew University of Jerusalem, Leiden University, University of Amsterdam

11/2011 -
10/2016

Managing editor of the International Journal Competition and Regulation in Network Industries

08/2008 -
07/2012

Affiliated research fellow at the Energy Programme Asia of the International Institute for Asian Studies

08/2008 -
10/2009

Lecturer International Political Economy at Department of International Relations, Webster University Leiden

08/2007 -
09/2011

PhD candidate at Delft University of Technology
Thesis: Keeping an Eye on Reliability; the Organizational Requirements of Future Renewable Energy Systems
(defence: Delft, 29 June 2012)

09/2006 -
07/2007

Statistical researcher at the Centre for Policy Related Statistics of Statistics Netherlands (CBS)

Education

09/2005 -
06/2006

Executive Master International and European Relations
- *with distinction*. Amsterdam School of International Relations, University of Amsterdam

- German Institute for International and Security Affairs (SWP)
- Times Higher Education

Industry

- Credendo
- Vattenfall
- ENEL
- Konrad Adenauer Stiftung
- Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
- Heinrich-Böll-Stiftung
- Aperio Intelligence
- Signum Global

Media

- Wall Street Journal
- Daily Telegraph
- Al-Jazeera
- Oil&Energy
- Podcast Looking Glass by the Institute of Physics
- VPRO Tegenlicht
- De Correspondent
- Volkskrant
- Quest

09/2002 - **Master Political Science**, Faculty of Management Sciences, Radboud University Nijmegen
08/2003

09/1999 - **Bachelor Political Science**, Faculty of Management Sciences, Radboud University Nijmegen
08/2002

Highlights

- Speaker on the geopolitics of hydrogen at the pre-assembly meeting on the geopolitics of energy transformation, 10th session of the **IRENA Assembly**, Abu Dhabi, 10-12 January 2020.
- Expert at the Dutch Ministry of Foreign Affairs, session informing **Minister Blok** on energy geopolitics, The Hague, 4 July 2019.
- **Keynote speaker** on the geopolitics of renewables at EU–Ukraine Renewable Energy Investment Forum, upon invitation by European Commission DG-ENER, Kiev, 17-18 December 2018.
- Book presentation of ‘the geopolitics of renewables’ at the **European Commission**, DG-ENER, Brussels, 14 June 2018 and Dutch **Ministry of Foreign Affairs**, ESA and IGG sections, The Hague, 23 April 2018.
- Publications achieving **top download scores** at Energypost, Energy Research and Social Science, and Springer Nature and citations by prominent outlets such as **The Economist** (issue 17-23 March 2018) and **Stratfor** (June 2018).
- Being recognized as a person that is **pioneering a new field**.
- Expert at the geopolitics of renewables workshop, organized by Harvard University, Columbia University, NUPI, and IRENA, **Berlin Energy Transition Dialogue 2017**, Berlin, 22-23 March 2017.
- Expert at **Royal Symposium**, meeting the Dutch royal family, Dam Palace Amsterdam, 4 December 2015. Robert Kaplan spoke on the energy routes and pipelines in 21st century maritime Eurasia.
- Co-organizer of the 13th Economics of Infrastructures conference, Delft, 27-28 May 2010. We hosted two **Nobel Prize laureates** in economics: Elinor Ostrom and Oliver Williamson.
- **Visiting scholar** at
 - European Centre for Energy and Resource Security, King’s College, London, October 2017.
 - 3 visits to Institute for West-Asian & African Studies and Institute for Industrial Economics, Beijing, 2008-2010 (KNAW grants).

List of Publications

Work in Progress

Scholten, D. (ed.) 2023. *Handbook on the Geopolitics of the Energy Transition*. Edward Elgar. Forthcoming November 2023.

Scholten, D. 2024. "The Stability of Energy Relations - A Theory of Energy Geopolitics", research ongoing, planned for *Geopolitics or Energy Policy*.

Scholten, D. 2024. "The Other Energy Transition – How Global Demand Shifts towards the South Impact Energy Geopolitics", research ongoing, planned for *Energy Strategy Reviews or Energy Research and Social Science*.

Scholten, D. 2025. "Global Politics and the Road to a Smooth Energy Transition", research ongoing, planned for *Energy Policy or Renewable and Sustainable Energy Reviews*.

Scholten, D. 2026. "Power Transitions - A Novel Perspective", research ongoing, planned for *World Politics*.

Past Publications

Journal articles

Sattich, T., D. Freeman, D. Scholten and S. Yan 2021. "Renewable Energy in EU-China Relations: Policy Interdependence and its Geopolitical Implications", *Energy Policy*, Vol. 156, 112456.

Van den Berg, P., D. Scholten, J. Schachter and K. Blok 2021. "Updating Scenarios – A Multi-Layer Framework for Structurally Incorporating New Information and Uncertainties into Scenarios", *Futures*, Vol. 130, 102751.

Van de Graaf, T., I. Overland, D. Scholten and K. Westphal 2020. "The New Oil? The Geopolitics and International Governance of Hydrogen", *Energy Research and Social Science*, Vol. 70, 101667.

Kuzemko, C., M. Bradshaw, G. Bridge, A. Goldthau, J. Jewell, I. Overland, D. Scholten, T. Van de Graaf and K. Westphal 2020. "COVID-19 and the Politics of Sustainable Energy Transitions", *Energy Research and Social Science*, Vol. 68, 101685.

Scholten, D., M. Bazilian, I. Overland and K. Westphal 2020. "The Geopolitics of Renewables: New Board, New Game", *Energy Policy*, Vol. 138, 111059.

Vakulchuk, R., I. Overland and D. Scholten 2020. "Renewable Energy and Geopolitics: Literature Review", *Renewable and Sustainable Energy Reviews*, Vol. 122, 109547.

Scholten D., D. Crikemans and T. van de Graaf 2020. "An Energy Transition Amidst Great Power Rivalry", *Journal of International Affairs*, Vol. 73, No. 1, 195-203.

Mata Pérez, M.E., D. Scholten and K. Smith Stegen 2019. "The Multi-Speed Energy Transition in Europe: Opportunities and Challenges for EU Energy Security", *Energy Strategy Reviews*, Vol. 26, 100415.

Dignum, M., A. Correlje, M. Groenleer and D. Scholten 2018. "Governing through Visions: Evaluating the Performativity of the European Gas Target Models", *Energy Research and Social Science*, Special issue on energy and the future, Vol. 35, 193-204.

Van de Kaa, G., D. Scholten, J. Rezaei and C. Milchram 2017. "The Battle between Battery and Fuel Cell Powered Electric Vehicles: A BWM Approach", *Energies*, Vol. 10, No. 11, 1707.

Scholten, M. and D. Scholten 2017. "From Regulation to Enforcement in the EU Policy Cycle: A New Type of Functional Spillover?", *Journal of Common Market Studies*, Vol. 55, No. 4, 925-942.

Scholten, D. and R. Künneke 2016. "Towards the Comprehensive Design of Energy Infrastructures", *Sustainability*, Vol. 8, No. 12, 1-24.

Eid, C., A. Bollinger, B. Koirala, D. Scholten, E. Facchinetti, J. Lilliestam and R. Hakvoort 2016. "Market Integration of Local Energy Systems: Is Local Energy Management Compatible with European Regulation for Retail Competition", *Energy*, Vol. 114, 913-922.

Scholten, D. and R. Bosman 2016. "The Geopolitics of Renewables; Exploring the Political Implications of Renewable Energy Systems", *Technological Forecasting and Social Change*, Vol. 103, 273-283.

Scholten, D. and M. Scholten 2014. "Towards a European Division of Labour: Do Europe's Crises Highlight Structural Challenges to Sustainable Economic Growth in the Euro Zone?", *European Review*, Vol. 22, No. 3, 382-387.

Scholten, M. and D. Scholten 2014. "The Sense and Nonsense of the EU Integration Debate", *European Review*, Vol. 22, No. 2, 274-282.

Scholten, D. 2013. "The Reliability of Energy Infrastructures; the Organizational Requirements of Technical Operations", *Competition and Regulation in Network Industries*, special issue, Vol. 14, No. 2, 173-205.

Scholten, M. and D. Scholten 2013. "De Zin en Onzin van het EU Integratie Debat", *Internationale Spectator*, Vol. 67, No. 5, 35-41.

Scholten, D. 2012. "Structurele Uitdaging voor Eurozone; Europa's Crises als Afspiegeling van Scheefgroei tussen Noord en Zuid", *Internationale Spectator*, Vol. 66, No. 2, 63-66.

Books, chapters, reports

IRENA 2019. *A New World - The Geopolitics of the Energy Transformation*. Report by the Global Commission on the Geopolitics of Energy Transformation. Abu Dhabi: IRENA.

Scholten, D. (ed.) 2018. *The Geopolitics of Renewables*. Cham: Springer Nature.

Scholten, D. 2018. "The Geopolitics of Renewables - An Introduction and Expectations", In Scholten, D. (ed.), *The Geopolitics of Renewables*. Cham: Springer Nature.

Scholten, D. and R. Bosman 2018. "The Strategic Realities of the Emerging Energy Game - Conclusion and Reflection", In Scholten, D. (ed.), *The Geopolitics of Renewables*. Cham: Springer Nature.

Scholten, D., R. Kunneke, J. de Joode, F. Dalla Longa, K. Smeekens, B. Daniels, H. de Laat, K. Pulles, C. Bos, A. Chitu, L. Ghazaryan and T. Attema 2016. *Integrating Local and Regional Energy Systems for Enhancing Sustainability*. Report for EDGaR D1. Groningen: Energy Delta Gas Research (EDGaR).

Scholten, D. 2015. *Designing Institutions for Future Energy Systems*. EDGaR D1 project report WP3, Delft.

Correljé, A., J. Groenewegen, R. Kunneke and D. Scholten 2014. "Design for Values in Economics", In van den Hoven, J., I. van de Poel and P. Vermaas (eds.), *Handbook of Ethics, Values and Technological Design*. Dordrecht: Springer.

TU Delft and Thales Research & Technology Nederland 2014. *New Governance Models for Next Generation Infrastructures*. Report for NGInfra and Alliander.

Scholten, D. 2012. "Energy Transition Governance Paradigms and Their Impact on Green Innovation Processes", In M. Amineh and Y. Guang (eds.), *Secure Oil and Alternative Energy - The Geopolitics and Energy Paths of China and the European Union*. Leiden/Boston/London: Brill Academic Publishers.

Scholten, D. 2012. *Keeping an Eye on Reliability; the Organizational Requirements of Future Renewable Energy Systems*. PhD Thesis. Delft University of Technology. 29 June 2012. Delft: Eburon.

Scholten, D. 2010. "Transition Management and Institutional Reform: The Case of a Transition to Hydrogen as a Motor Fuel in The Netherlands", In M. Amineh and Y. Guang (eds.), *The Globalization of Energy; China and the European Union*. Leiden/Boston/London: Brill Academic Publishers.

Conference and working papers, proceedings

Van de Graaf, T., M. Bradshaw, I. Overland, D. Scholten and K. Westphal 2021. "Shipping Sunshine: The Potential and Pitfalls of Cross-Border Hydrogen Trade", *EUJA conference*, Brussels, Belgium, 26-28 May 2021.

Sattich, T., D. Freeman, D. Scholten and S. Yan 2020. "Renewable Energy in EU-China Relations - Complex Interdependence and Its Geopolitical Implications", *ECPR conference*, Innsbruck, Austria, 26-28 August 2020.

Sattich, T., D. Freeman, D. Scholten and S. Yan 2019. "Between Geopolitical Competition, Voluntary Cooperation and Sectoral Entanglement - The Impact of RE Policies in EU-China Bilateral Relations", *International Conference on Renewable Electrification in Geopolitical Contested Settings*, Jerusalem, Israel, 18-20 December 2019.

Mata Pérez, M.E. and D. Scholten 2018. "Divergent Energy Paths within the European Union", Conference paper, *ECPR Conference*, Hamburg, Germany, 22-24 August 2018.

Scholten, D. and R. Kunneke 2016. "Towards the Comprehensive Design of Energy Infrastructures", Conference paper, *ECPR Conference*, Tilburg, The Netherlands, 6-8 July 2016.

Scholten, M. and D. Scholten 2016. "From Regulation to Enforcement in the EU Policy Cycle: A New Type of Functional Spillover?", Conference paper, *ECPR Conference*, Tilburg, The Netherlands, 6-8 July 2016.

Finger, M., R. Kunneke, D. Scholten and M. Dignum (eds.) 2015. *Proceedings of the Eight Annual Conference on Competition and Regulation in Network Industries*. Brussels: CRNI-Intersentia.

Sattich, T., I. Ydersbond and D. Scholten 2015. *European Power Struggles. Can the EU's Decarbonisation Agenda Break the State-Company Axis in the Power Sector?*, FEEM working paper, Fondazione Eni Enrico Mattei.

Akerboom, S. and D. Scholten 2014. "Legal Restrictions and Solutions for Local Solar PV Markets in The Netherlands", Conference paper, *7th Competition and Regulation in Network Industries Conference*, 7 November, 2014, Brussels Belgium.

Finger, M., R. Künneke, D. Scholten and A. Cruz Velis (eds.) 2014. *Proceedings of the Seventh Annual Conference on Competition and Regulation in Network Industries*. Brussels: CRNI-Intersentia.

Avelino, F., R. Bosman, N. Frantzeskaki, S. Akerboom, P. Boontje, J. Hoffman, G. Paradies, B. Pel, D. Scholten and J. Wittmayer 2014. *The (Self-)Governance of Community Energy: Challenges & Prospects*. DRIFT Practice Brief nr. PB 2014.01, Rotterdam: DRIFT.

Cayford, T. and D. Scholten 2014. "The Viability of Self-Governance Arrangements in Community Energy Systems", Conference paper, *5th Workshop on the Ostrom Workshop*, 18-21 June 2014, Bloomington (Indiana), USA.

Cayford, T. and D. Scholten 2014. *Self-governance in Community Energy Systems: An Approach to Assess the Viability*. EDGaR working paper, Groningen.

Cayford, T. and D. Scholten 2013. "Viability and Varieties of Self-Governance in Community Energy Systems", Conference paper, *2nd research workshop on energy economics of the Benelux Association for Energy Economics*, 4 October 2013, Leuven, Belgium.

Finger, M., R. Künneke, D. Scholten and A. Cruz Velis (eds.) 2013. *Proceedings of the Sixth Annual Conference on Competition and Regulation in Network Industries*. Brussels: CRNI-Intersentia.

Scholten, D. and R. Bosman 2013. "The Geopolitics of Renewables; a Mere Shift or Landslide in Energy Dependencies?", Conference paper, *Political Science Day*, 30-31 May 2013, Ghent, Belgium.

Finger, M., R. Künneke and D. Scholten (eds.) 2012. *Proceedings of the Fifth Annual Conference on Competition and Regulation in Network Industries*. Brussels: CRNI-Intersentia.

Scholten, D. 2012. "The Power of Energy; What Can IR Theories Teach Us About Energy-Related Patterns of Cooperation and Conflict Between and Among States and Non-state Actors", Position paper, *Political Science Day Conference, workshop session 8 (Energy, Geopolitics, and International Relations)*, 31 May - 1 June 2012, Amsterdam, The Netherlands.

Finger, M., R. Künneke, M. Laperouzza and D. Scholten (eds.) 2011. *Proceedings of the Fourth Annual Conference on Competition and Regulation in Network Industries*. Brussels: CRNI-Intersentia.

Finger, M., R. Künneke and D. Scholten (eds.) 2010. *Proceedings of the Third Annual Conference on Competition and Regulation in Network Industries*. Brussels: CRNI-Intersentia.

Finger, M., R. Künneke, M. Laperouzza and D. Scholten (eds.) 2009. *Proceedings of the Second Annual Conference on Competition and Regulation in Network Industries*. Brussels: CRNI-Intersentia.

Scholten, D. 2009. "Pursuing the Alignment of Institutions to Technologies as a Policy Objective in Times of Technical Change", Conference paper, *CRNI conference*, Brussels, 20 November 2009.

Scholten, D. 2009. "Towards a Framework for Aligning Institutions to Technologies in Times of Technical Change", Conference paper, *EAEPE conference*, Amsterdam, 06-08 November 2009.

Scholten, D. 2009. "Matching Institutions to Technologies; The Case of a Transition to Hydrogen in The Netherlands", Conference paper, *ECPR Conference*, Potsdam 10-12 September 2009.

Scholten, D. 2009. "The Role of Coherence in the Coevolution between Institutions and Technologies", Conference paper, *NGI workshop*, Lausanne, Switzerland, 12 June 2009.

Finger, M., R. Künneke and D. Scholten (eds.) 2008. *Proceedings of the First Annual Conference on Competition and Regulation in Network Industries*. Brussels: CRNI-Intersentia.

Policy briefs, popular outlets

Riemersma, B. and D. Scholten 2021. "Hydrogen – Expectations for Future Energy Relations", *Journal of International Affairs*, 4 February 2021, at: <https://jia.sipa.columbia.edu/online-articles/hydrogen-expectations-future-energy-relations>.

Scholten, D. 2020. "Met Olie, Zonder Olie", *Quest*, Vol. 8, 79.

Voskuyl, J. and D. Scholten 2020. "Renewables: The End of Energy Globalization?", *Energy Transition – The Global Energiewende*, 22 April 2020, at: <https://energytransition.org/2020/04/renewables-the-end-of-energy-globalization/>.

Scholten, D. 2019. "The Strategic Implications of Renewable Energy", *Green European Journal*, 19 December 2019, at: <https://www.greeneuropeanjournal.eu/the-strategic-implications-of-renewable-energy/>.

Braun, J-F. and D. Scholten 2019. "What's Next for the Geopolitics of Energy Transformation?", *Energy Post*, 25 March 2019, at: <https://energypost.eu/whats-next-for-the-geopolitics-of-energy-transformation/>

Scholten, D. 2019. "Earth, Wind and Solar Energy", *Green European Journal*, special edition 2049: open future, 100-103.

Scholten, D., M. Bazilian, I. Overland and K. Westphal 2018. "Nieuwe Energie, Nieuwe Politiek - Hoe de energietransitie de relatie tussen landen verandert", *De Helling*, Vol. 4, 54-58.

Van Calcar, C. and D. Scholten 2018. "The Dutch Energy Transition: Shifting Topology and Fortunes", *EUCERS newsletter*, at: <https://www.kcl.ac.uk/sspp/departments/warstudies/research/groups/eucers/newsletter/newsletter71.pdf>

Scholten, D. 2017. "Renewable Energy Security", *EUCERS newsletter*, at: <https://www.kcl.ac.uk/sspp/departments/warstudies/research/groups/eucers/newsletter/newsletter64.pdf>

Guillou, A., C. Schramm, R. Schachtschneider, P. Fink, I.P.A., M. Derdevet and D. Scholten 2015. "New and Ambitious or Just More of the Same? The Energy Union at a Crossroads", *Terra Nova*, 23 November 2015.

Scholten, D., I. Ydersbond, T. Sattich and T. Inderberg 2015. "Consensus, contradiction, and conciliation of interests: the geo-economics of the Energy Union", Policy brief, *EPC*.

Scholten, D., I. Ydersbond, I. Alloisio, T. Sattich and T. Inderberg 2015. "The EU's 2030 agenda and the Energy Union: Member States' bargaining positions and the way forward", Policy paper, *Egmont*.

Scholten, D., T. Sattich and I. Ydersbond 2014. "Power Struggles: The Intra-Community Implications of EU Energy Policy", *EU Energy Policy Blog*, 30 November 2014, at: <http://www.energypolicyblog.com/2014/11/30/powerstrugglestheintracommunityimplicationsofeenergy-policy/>

Ydersbond, I., D. Scholten and T. Sattich 2014. "Power Struggles: The Geopolitical Implications of EU Energy Policy", *Energi og Klima*, 27 November 2014, at: <http://energiogklima.no/kommentaranalyse/powerstrugglesthegeopoliticalimplicationsofeenergy-policy/>

Bosman, R. and D. Scholten 2013. "How Renewables Will Transform Commercial and (geo)Political Relations", *Energy Post*, 6 November 2013, at: <http://www.energypost.eu/renewables-will-transform-commercial-geopolitical-relations/>

Bosman, R. and D. Scholten 2013. "How renewables will shift the balance of power", *Renew Economy*, 5 November 2013, at: <http://reneweconomy.com.au/2013/how-renewables-will-shift-the-balance-of-power-78579>.

Bosman, R. and D. Scholten 2013. "Renewable Energy: Shifting Sources of Power", *Government Gazette*, October issue, 13-14.

Scholten, D. 2012. "The Governance Perspectives behind Renewables", *International Institute for Asian Studies (IIAS) Newsletter*, special edition, December issue.

Scholten, D. 2011. "Organizing Future Energy Systems for Reliability", *Energy Delta Gas Research (EDGaR) newsletter*, Vol. 3, No. 2, 12-16.

Scholten, D. 2009. "Transition Management and Institutional Reform", *International Institute for Asian Studies (IIAS) Newsletter*, special edition 51.

Scholten, D. 2008. "Broken Promises by Transition Management on Institutional Reforms", *Network Industries Quarterly*, Vol. 10, No. 4. EPFL Lausanne, Switzerland and TU Delft, The Netherlands.