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Deutsches Institut für
Entwicklungspolitik



German Development
Institute





Conference

“Green transformation and competitive advantage: Evidence from developing countries”

At German Development Institute - Deutsches Institut für Entwicklungspolitik (DIE)

Tulpenfeld 6, 53113 Bonn, Germany, 18-19 June 2018

Developing country governments are increasingly committing to ‘greening’ their economies, most explicitly under the Paris Agreement, where nearly all governments agreed to establish national roadmaps for decarbonisation. Many developing country governments have furthermore enacted comprehensive national green growth strategies aimed at reducing their environmental footprints and turning this into new competitive advantage. Yet, empirical evidence on the economic co-benefits and costs of green transformations in terms of competitiveness, employment and wealth creation is still scarce.

The conference brings together research on the link between green transformation and competitiveness in developing and emerging countries (understood as non-OECD countries, but including Chile and Mexico). It does so by bridging various disciplines and methodologies, including e.g. patent data analysis, qualitative case studies, econometric research, foresight studies, and integrated assessment modelling. It combines invited papers and papers selected via a call and review process.

The conference combines invited keynotes and a Call for Papers. In total, some 40 academic papers were invited. Contributions were selected that are relevant to policy formulation and implementation and reflect upon political-economy aspects that may facilitate or hamper implementation. The results of the conference will be published in a Special Issue. In addition, there will be keynotes and a panel discussion with high level policy speakers.

Travel and accommodation expenses of all accepted presenters will be covered in accordance with DIE’s Travel Reimbursement Guidelines.

For registration and logistical information, please contact Ina Klemke (socioeconomic@die-gdi.de). In case of content related questions, please contact Anna Pegels (anna.pegels@die-gdi.de) or Tilman Altenburg (tilman.altenburg@die-gdi.de).



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Programme

18th June, 2018

09:00-09:30	Registration		
09:30-9:40	Welcome address: <i>John Maughan, GGKP</i>		
9:40 – 10:00	Green transformation and competitive advantage: Aims of the Conference <i>Tilman Altenburg and Anna Pegels, DIE</i>		
10:00-10:45	The aims and objectives of green transformation in developing countries <i>Ed Barbier, Colorado State University</i>		
10:45-11:15	Coffee break		
11:15-12:45	Breakout Sessions (1)		
	A1 <i>Regulatory impacts and performance in international trade</i>	B1 <i>Renewable energies</i>	C1 <i>Exploring greener futures</i>
12:45-13:45	Lunch break		
13:45-14:30	Can emerging economies compete in the green race? <i>Sam Fankhauser, Grantham Research Institute, London School of Economics</i>		
14:30-16:00	Breakout Sessions (2)		
	A2 <i>Upgrading in greener value chains (1)</i>	B2 <i>Energy futures</i>	C2 <i>Green policies impacting on competitiveness</i>
16:00-16:30	Coffee break		
16:30 -17:15	Policy incentives (and unintended consequences) for promoting low carbon innovation in firms <i>Laura Diaz Anadon, University of Cambridge</i>		
19:00	Conference Dinner (by invitation only)		

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09:00-9:45	When do firms go green? Evidence from developing countries <i>Ann Harrison, The Wharton School</i>		
9:45-10:15	Coffee break		
10:15-11:45	Breakout sessions (3)		
	A3 <i>Upgrading in greener value chains (2)</i>	B3 <i>Competitive opportunities in Africa</i>	C3 <i>Technology and Innovation</i>
11:45-12:30	Does the green transformation enable China to leapfrog into new competitive industries? <i>XUE Lan, Tsinghua University</i>		
12:30-13.30	Lunch break		
13:30-14:30	Breakout sessions (4)		
	A4 <i>Financing the transformation</i>	B4 <i>Energy Efficiency</i>	C4 <i>Waste management</i>
14.30-14:50	Awards Ceremony for best policy-relevant papers		
14:50-15.10	How can Africa's economies gain from a green transformation? <i>African high level speaker, tbc</i>		
15.10 -15.30	A 'Big Environmental Push' Strategy with economic co-benefits for Latin America <i>Mario Cimoli, Deputy Executive Secretary, Economic Commission for Latin America and the Caribbean</i>		
15:30-16.00	Coffee break		
16:00- 17.20	Policy panel <ul style="list-style-type: none"> • Mario Cimoli, Deputy Executive Secretary ECLAC • African high level speaker, tbc • Kumi Kitamori, Head of Green Growth & Global Relations Division, OECD Environment Directorate • Axel Klaphake, Director Economic and Social Development, Digitalisation, GIZ • Aik Hoe Lim, Director of the Trade and Environment Division, WTO <i>Moderator: Dirk Messner, Director, DIE</i>		
17.:20-17:30	Wrap up and announcement of follow-up activities		

Breakout Sessions

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11:15-12:45	<p>A1 Regulatory impacts and performance in international trade</p> <p>Barriers to trade in environmental goods? How important they are and what to expect from their removal <i>Jaime De Melo (La Fondation pour les Études et Recherches sur le Développement International, FERDI and University of Geneva) and Jean-Marc Solleder (University of Geneva)</i></p> <p>Green growth strategy and trade performance in Sub-Saharan Africa <i>Opeyemi Akinyemi, Uchenna Efobi (Covenant University, Nigeria), Simplice Asongu (African Governance and Development Institute, Cameroun) and Evans Osabuohien (Covenant University)</i></p> <p>Effects of environmental provisions in trade agreements on trade flows and global value chain upgrading in developing countries <i>Clara Brandi, Axel Berger and Jakob Schwab (all German Development Institute, DIE)</i></p>
	<p>B1 Renewable energies</p> <p>Leveraging private investment to increase the deployment of renewable energy in developing countries: Evidence from Uganda <i>Benedict Probst (University of Cambridge), Lotte Westermann (Evaluation Department, German Development Bank KfW) Laura Díaz Anadon and Andreas Kontoleon (both University of Cambridge)</i></p> <p>Varieties of green transformations: comparative evidence from solar PV and wind energy technology in China and India <i>Michiko Iizuka (National Graduate Research Institute for Policy Studies, GRIPS), Carsten Gandenberger (Fraunhofer Institute for Systems and Innovation Research, ISI) and Hans-Erik Edsands (Chalmers University of Technology)</i></p> <p>The impact of renewable energy policy with local content requirements on technology transfer and local production capacities in South Africa <i>Antoine Dechezlepretre (OECD and London School of Economics) and Benedict Probst (University of Cambridge)</i></p>
	<p>C1 Exploring greener futures</p> <p>Green transformation: System dynamics model on endowment, investment and employment <i>Hefeng Tong, Yan Wang and Jiajun Xu (all Institute of New Structural Economics, Peking University)</i></p> <p>Green technology diffusion and opportunities for capability building in developing countries. Results from a Delphi Survey <i>Georgeta Auktor, Tilman Altenburg and Andreas Stamm (German Development Institute, DIE)</i></p> <p>Economic and social co-benefits and costs of a green transformation in Brazil <i>Emilio La Rovere, William Wills, Carolina Grottera, Carolina Dubeux and Claudio Gesteira (all Federal University of Rio de Janeiro)</i></p>

14:30-16:00	<p>A2 Upgrading in greener value chains (1)</p> <p>Voluntary sustainability standards as tools for green industrial transformation: The cases of cocoa and palm oil <i>Aaron Cosbey, International Institute for Sustainable Development (IISD)</i></p> <p>Aligning sustainability and competitiveness in international supply chains: A consumer driven approach <i>Wolfgang Veit (TH Köln)</i></p> <p>Greening industry in Vietnam: Environmental standards and resource efficiency in SMEs <i>Dalia Fadly (Philipps University of Marburg, Germany)</i></p>
	<p>B2 Energy futures</p> <p>Global energy, policy, and technology: Perspectives of fuel-exporting developing countries towards 2050 <i>Dawud Ansari and Franziska Holz (DIW Berlin)</i></p> <p>Data and insights for a ‘coupling’ and ‘leapfrogging’ of sustainable energy and mobility services for smart and resilient cities and national competitive advantage <i>Joshua Sperling, Jill Engel-Cox and Ron Benioff (all: National Renewable Energy Laboratory, Golden, Colorado, USA), Shaleen Singhal (TERI School of Advanced Studies, Delhi, India and Visiting Fulbright Fellow, Yale University), Karen Seto and Angel Hsu (both Yale University, USA and Yale-National University of Singapore)</i></p> <p>Exploring technological trajectories and technological catch-up in solar energy: Evidence from patent data <i>Sheng Zhong (Energy Studies Institute, National University of Singapore) and Lili Wang (UNU-MERIT, Maastricht)</i></p>
	<p>C2 Green policies impacting on competitiveness</p> <p>Do environmental tax reforms harm competitiveness? Micro evidence from developing countries <i>Nicola Cantore (United Nations Industrial Development Organization, UNIDO) and Massimiliano Cali (World Bank)</i></p> <p>China's green transformation through Eco-industrial Parks <i>Douglas Zhihua Zeng (World Bank) and Lei Shi (Tsinghua University)</i></p> <p>Policy competition in clean technology: Scaling up or innovating up? <i>Jonas Meckling (University of California, Berkeley) and Llewelyn Hughes (Australian National University)</i></p>

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10:15-11:45	<p>A3 Upgrading in greener value chains (2)</p> <p>Greening industrialization: How a technology's product architecture and use environment affect local low-carbon industry development <i>Tyeler Matsuo, Abhishek Malhotra and Tobias Schmidt (all ETH Zurich)</i></p> <p>South-South technology transfer and collaboration in the renewable energy sector: The role of China in shaping emerging sustainable industrialisation pathways in Sub-Saharan Africa <i>Rasmus Lema (Aalborg University) and Ulrich Elmer Hansen (United Nations Environment, UNEP and Technical University of Denmark)</i></p> <p>Retail chains as accelerators of green supply chain standards and their effects on local suppliers <i>Tilman Altenburg (German Development Institute, DIE) and Mike Morris (University of Cape Town)</i></p>
	<p>B3 Competitive opportunities for Africa</p> <p>Green industrialization in Nigeria and Ghana: Extents and impacts from firm-level survey data <i>Uchenna Efobi (Covenant University, Nigeria), Belmondo Tanankem (Ministry of Economy, Planning and Regional Development, Cameroon), Emmanuel Orkoh (North-West University, South Africa), Scholastica Ngozi Atata (Federal University of Agriculture, Abeokuta Nigeria), Opeyemi Akinyemi and Ibukun Beecroft (both Covenant University)</i></p> <p>Electric two-wheelers in Africa? Markets, production and policy <i>Black, Anthony (University of Cape Town), Justin Barnes (B&M Analysts, South Africa), Brian Makundi and Tobias Ritter (both University of Cape Town)</i></p> <p>Green competitive opportunities for South Africa <i>Gaylor Montmasson-Clair, Trade & Industrial Policy Strategies (TIPS), South Africa</i></p>
	<p>C3 Technology and Innovation</p> <p>Technology-enabled governance innovation in achieving SDGs: An empirical study in China <i>Guan Ting and Jing Zhao (Center for Industrial Development and Environmental Governance, Tsinghua University)</i></p> <p>Structural change and sustainable development: Transforming natural resource-based industries in Latin America <i>Anabel Marin and Patrick van Zwanenberg (both Centro de Investigaciones para la Transformación, CENIT and Argentina National Council of Sciences, CONICET)</i></p> <p>Forging ahead: Technology development and emerging economies <i>Mahmood H. Shubbak (University of Bremen)</i></p>

13:30-14:30	<p>A4 Financing the transformation</p> <p>Green investment and business performance: The African experience <i>Joseph Adelegan (University of Venda, South Africa)</i></p> <p>The Green Economy and economic development – investigating competitive implications of sunk costs to greening for developing countries <i>Maj Munch Anderson (Technical University of Denmark)</i></p>
	<p>B4 Energy Efficiency</p> <p>Green industrial policy and energy efficient solutions in India <i>Padmashree Gehl Sampath (UNCTAD) and Ambuj Sagar (Indian Institute of Technology, Delhi)</i></p> <p>The determinants of energy efficiency and the role of policy: Empirical Evidence from developing countries <i>Dina Azhgaliyeva (Energy Studies Institute, National University of Singapore)</i></p>
	<p>C4 Waste management</p> <p>The economic growth implications of monetising select waste streams: Evidence from South Africa <i>Reza C. Daniels, Faaiqa Hartley and Tara Caetano (University of Cape Town)</i></p> <p>Evaluating new urban waste-to-energy systems through the nexus of waste management, energy, and environment policies in developing countries <i>Afreen Siddiqi (Harvard Kennedy School and Massachusetts Institute of Technology), Masahiko Haraguchi and Venkatesh Narayanamurti (Harvard Kennedy School)</i></p>

Your directions to the German Development Institute / Deutsches Institut für Entwicklungspolitik (DIE), Tulpenfeld 6, D - 53113 Bonn

From Bonn Central Station (*Hauptbahnhof*):

Take the U-Bahn U 16/ U 63 or U 66 to "Heussallee/Museumsmeile". Take the exit Heussallee. Turn right after 50 m onto the footpath towards the office complex 'Tulpenfeld'. Follow the signs across Tulpenfeld to the building of DIE at Tulpenfeld 6.

The buses No. 610 and 611 run from the train station Bonn *Hauptbahnhof* to the bus stop "Heussallee/Museumsmeile". Turn onto the footpath towards the office complex 'Tulpenfeld'. Follow the signs across Tulpenfeld to the building of DIE at Tulpenfeld 6.