

## Bibliography on the subject of Sustainable water resources management and transformation

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## Introduction

Classical networked infrastructure systems are increasingly coming under pressure and see themselves confronted with new problems for which the usual concepts offer less and less solutions. These challenges are posed equally for all infrastructure sectors. Particularly topical, however, is the future of water supplies and sewage management. In the meantime, this subject is being discussed in most industrial countries, whereby the problems encountered can greatly vary.

While in Germany, at least in the course of public debate, the predominant topics are demographic contraction and the adaptive strategies for supply and sewage disposal companies which this makes necessary, in other countries thought is being given to alternative supply and sewage disposal concepts, either because a sustained high settlement pressure or the effects of the threatening change in climate creates problems with the continuation of the supply and sewage disposal models used to date. Not infrequently, though, it is the entirely classical problems of insufficient water resources that prompt the search for new, sustainable concepts of supply and sewage disposal.

Nevertheless, it is not entirely clear just how to supplant the previous infrastructure model. Some principles can be formulated which the future development of the infrastructure should follow. However, only the beginnings of these alternatives are concretely described in sufficient detail. This is also true for the question of who should initiate and accompany such a process. Often, only a technological paradigm change is described, without questioning the underlying infrastructure model in its entirety.

The research association netWORKS is investigating these questions in conjunction with a transformation management for the example of selected German cities of different sizes, with the objective of defining recommendations for action for decision makers at the municipal level. In this relatively early stage of debating alternatives, it would appear to be especially useful to study similar developments in other industrial countries. Even if no ideal type models of transformation can be identified here, an analysis of the status of international debates permits confrontation with many highly promising discourses, models and concepts for sustained water resources management of relevance for the future development of this sector in Germany.

The results of this working module are examined in netWORKS – Paper 25 "*Transformation of Municipal Water Infrastructures: International experiences*" and served for the preparation of the international workshop "*Sustainable Urban Water Infrastructure - Possibilities of Adaptation and Transformation -An international workshop on infrastructural needs between demographic change, climate adaptation, technical options and economical frameworks*", organised by netWORKS in September 2008 in Berlin, with presenta-



tions from researchers from Australia, the USA, France, Israel, Sweden, the Netherlands and Switzerland taking. 3

Within the framework of the work package a comprehensive analysis of the literature was made. Databases specific to this subject, relevant professional journals, official documents and "gray" literature were examined fore this purpose. The evaluation was restricted to contributions since the year 2002 from industrial countries. The restriction in time is due to the fact that this special debate about the future of infrastructure was only initiated at the beginning of this century; the geographical restriction arises from the interest in being able to utilise these experiences for the situation in the Federal Republic of Germany.

The present report includes a summary of the literature evaluated. Besides the bibliographic information, for each reference the principal geographical area in which the work was carried out is given. To the extent available, the Internet sources are also given. Reference is made either directly to the relevant document or to the organisation publishing the document. 4

Viewing the international literature addressing the topic of models and practical projects for the transformation of water infrastructure, it emerges that a few essential driving forces can be seen as the decisive factors:

- Sustainable development
- Climatic change
- New technologies
- Demographic change
- Urban regeneration projects
- Integration of infrastructure and spatial planning.

This differentiation was also used for summarising the literature.

<sup>3</sup> Further information under <u>http://www.networks-group.de</u>

<sup>4</sup> Accessed in mid-February 2009



Abbr:	Country/Region
AU	Austria
AUS	Australia
BRAZ	Brasil
CAN	Canada
CHIL	Chile
CHIN	China
DK	Denmark
F	France
FIN	Finland
GER	Germany
IRE	Ireland
JP	Japan
LUX	Luxembourg
MEC	Mexico
NL	Netherlands
NZ	New Zealand
POR	Portugal
SCO	Scotland
SPA	Spaine
SCO	Scotland
SWE	Sweden
UK	United Kingdom
USA	United States of America
Developed Countries	OECD
EU	European Union
Global	No spatial focus



## Sustainability

Author	Year	Titel	Spatial focus
Abeysuriya K., et.al.	2008	Expanding Economic Perspectives for Sustainability in Urban Water and Sanitation, in: Development Vol. 51 S. 23–29	Global
ACTEW Corpo- ration Ltd, -	2005	Future Water Options for the ACT Region . Implementation Plan Document No: 4690, Canberra April <u>www.actew.com.au/FutureWaterOptions/</u>	AUS
Adams, N., et.al.	2006	Analysis of Water Resources Management Strategies for the Santa Ana River Water- shed Region: Water Reuse, Recharge and Use Efficiency. Group Project Thesis for the degree of Master's in Environmental Science and Management for the Donald Bren School of Environmental Science & Management University of California, Santa Bar- bara	USA
Adeli, H	2002	Sustainable Infrastructure Systems and Environmentally – Conscious Design – A View for the Next Decade, in: Journal of Computing in Civil Engineering, Vol. 16, H.4, S. 231-233	Global
Adinyira, E. et.al-	2007	A Review of Urban Sustainability Assessment Methodologies. International Conference on Whole Life Urban Sustainability and its Assessment, M. Horner, C. Hardcastle, A. Price, J. Bebbington (Eds) Glasgow, http://sue-mot.org/conference-2007/papers	Developed countries
Ali Bagheri, A.,	2006	Sustainable Development. Implementation in Urban Water Systems. Lund Univer- sity/Swe, May www.lu.se/o.o.i.s?id=12683&postid=546536	SWE
Allacker K. De Troyer F.,	2007	Combining environmental impact and financial cost calculations with quality assessment at the building level. International Conference on Whole Life Urban Sustainability and its AssessmentM. Horner, C. Hardcastle, A. Price, J. Bebbington (Eds) Glasgow http://sue-mot.org/conference-2007/papers/	Developed countries
Atherton, A. et.al.	2008	Accounting for Environmental Costs to Inform Strategic Decision–Making. Exploring Yarra Valley Water's Experience. Paper presented at Enviro 08 Australasia's Environ- mental & Sustainability Conference & Exhibition Melbourne May 5-7 2008	AUS



		www.isf.uts.edu.au/publications/index.html	
Bagheri, A., P. Hjorth,	2006	A framework for process indicators to monitor for sustainable development: Practice to an urban water system, in: Environment, Development and Sustainability (online ver- sion)	Developed countries
Balkema, A.J., H.A. Preisig, R. Otterpohl, D.J.D. Lambert,	2002	Indicators for sustainability assesment of wastewater treatment systems, in: Urban Water, Vol. 4, H.2, S. 153 – 161	Developed countries
Barraque, B., R. M. Formiga Johnsson, A. L. Britto,	2007	Sustainable water services and interaction with water resources in Europe and in Brazil Hydrol. Earth Syst. Sci. Discuss., 4, 3441–3467	EU, BRAZ
Bartle, I. P. Vass,	2007	Independent economic regulation: A reassessment of its role in sustainable develop- ment, in: Utilities Policy 15, 261-269	UK
Bartle, I. P. Vass,	2006	Economic Regulators and sustainable development: Promoting good governance Re- search Report 18 CRI Centre for the Studies of Regulated Industries, Bath/UK, Octo- ber www.bath.ac.uk/cri/	UK
Bartle, I., P. Vass	2007	Independent economic regulation: A reassessment of its role in sustainable develop- ment, in: Utilities Policy 15 261- 269	UK
Bergkamp, G. C. W. Sadoff,	2008	Water in a Sustainable Economy, in: The Worldwatch Institute, State of the World 2008. Innovations for a Sustainable Economy www.worldwatch.org	Global
Bergman, N. L. Whitmarsh, J.Köhler	2008	Transition to sustainable development in the UK housing sector:from case study to model implementation. Tyndall Centre for Climate Change Research Working Paper 120, Norwich August www.tyndall.ac.uk /	UK
Brandes, O., et.al.	2007	A New Path to Water Sustainability for the Town of Oliver, BC A Soft Path for Water Case Study: POLIS Discussion Series Paper 07-01, University of Victoria, Victoria, BC, February www.polisproject.org/publications	CAN



Brandes, O.M.	2007	Urban Water Soft Path. Back of the Envelope' Backcasting Framework .The POLIS	CAN
T. Maas ,		Project on Ecological Governance University of Victoria, POLIS Discussion Series Pa-	
		per 07-02 February	
		www.polisproject.org/publications	
Brown, P. R.,	2007	The importance of water infrastructure and the environment in tomorrow's cities, in:	Developed countries
		Novotny, V., P. Brown (Eds.) Cities of the Future. Towards integrated sustainable water	
		and landscape management. IWA Publishing, London, S. 2-7	
Business for So-	2007	At the Crest of a Wave: A Proactive Approach to Corporate Water Strategy, Septem-	Developed countries
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ity (BSR) and		www.pacinst.org/reports/crest_of_a_wave/	
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tute			
Butler, D. and	2006	Water Related Infrastructure for Sustainable Communities. Technological Options and	UK
Makropoulos, C		Scenarios for Infrastructure Systems. Science Report No. SC05002501. Environment	
		Agency.	
		www.environment-agency.gov.uk/	
Callaghan, E. G.	2007	Building sustainable & resilient communities: a balancing of community capital,in: Envi-	Developed countries
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Cashman, A.,	2006	A watery form of sustainability, in: Water and Environment Journal, Vol. 20, No. 1, 2-6	UK
Chan, E.H.	2007	Design considerations for environmental sustainability in high density development: a case study of Hong Kong; in: Environ Dev Sustain	НК
et.al.,			
Clay, C. J. Mil-	2007	Water Sector. The CIP Report, critical infrastructure protec tion programme, Vol. 6,	USA
loy Goobic (Eds)		number 4 October,	
		http://cipp.gmu.edu	
Cole, P. & M.	2007	Environmental Impact Assessment (EIA) and Strategie Environmental Assessment	Developed countries
Broderick,		(SEA): an exploration of synergies through development of a Strategie Environmental	
		Framework (SEF), in: Kungolas, A., C.A. Brebbia, E. Beriatos (Eds.), Sustainable De-	
		velopment and Planning, Vol.1,WIT Transactions on Ecology and the Environment,	
		Southampton . Boston 2007,S. 313 – 322	
Cole, R, J.	2007	Reframing environmental performance goals for buildings: . International Conference on Whole Life Urban Sustainability and its Assessment. M. Horner, C. Hardcastle, A.	Developed countries



		Price, J. Bebbington (Eds) Glasgow, http://sue-mot.org/conference-2007/papers	
Communities and Local Gov- ernment	2007	Planning for a Sustainable Future. White Paper. Presented to Parliament by The Sec- retary of State for Communities and Local Government, The Secretary of State for En- vironment, Food and Rural Affairs, The Secretary of State for Trade and Industry, The Secretary of State for Transport by Command of Her Majesty May www.communities.gov.uk/publications/planningandbuilding/planningsustainablefuture	UK
Crase, L., et.al.	2008	An intersectoral comparison of Australian water reforms, in.: Water Policy 10, 43-56	AUS
Crase, L., S. O'Keefe, J. Burston,	2007	Inclining Block Tariffs for Urban Water, Agenda, Volume 14, Number 1, S: 69-80	AUS
Craveiro, J., P. Machado, D. Sil- va & Á. Pereira,	2007	Reflecting about the emergence of sustainable urban communities – a social ecological point of view. Laboratório Nacional de Engenharia Civil (LNEC), Lisboa, Portugal	EU
Creedy, A. Ch. Zuidema, G. Porter, G. e Roo,	2007	Towards Liveable Cities and Towns. Guidance for Sustainable Urban Management, EUROCITIES www.eurocities.org.	Developed countries
Cremasco, V.,	2007	Sustainability Tools Dedicated to Urban Infrastructure: The Existing and the Distinct- iveness of PETUS, in: Indoor Built Environ;16;3:226–234	EU
Dale; A., J. Ha- milton,	2007	Sustainable Infrastructure: Implications for Canada's Future. Canada Research Chair in Sustainable Community Development, Royal Roads University Hamilton, March http://crcresearch.org	CAN
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Dasgupta, S. ,E. K.L. Tam,	2005	Indicators and framework for assessing sustainable infrastructure, in: Can. J. Civ. Eng. 32: 30–44	CAN
Davis JP et.al.	2003	Sustainability and Vulnerability – two contrasting aspects of urban and large infrastruc- ture systems. University of Bristol, www.bristol.ac.uk/ias/res-programmes/water-res-1.html	Global
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Department for Environment, Food and Rural Affairs	2008	Statutory Social and Environmental Guidance to the Water Services Regulation Author- ity (Ofwat), August www.defra.gov.uk/corporate/consult/ofwat-guidance/	UK
Dimitrijevic; B., D. Langford,	2007	Assessment Focus for More Sustainable Buildings. SUE-MoT Conference 2007, 27-29 June 2007. International Conference on Whole Life Urban Sustainability and its As- sessment. Conference theme: Sustainability Appraisal of Buildings, <u>http://sue-mot.org/conference-2007/papers/</u>	Developed countries
Economic Regu- lation Authority	2008	Inquiry into Pricing of Recycled Water in Western Australia, Perth www.era.wa.gov.au.	AUS
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Fayyaz A. M.;	2007	Sustainability investigation tools for water management in new developments Interna- tional Conference on Whole Life Urban Sustainability and its Assessment. M. Horner,	Developed countries
		C. Hardcastle, A. Price, J. Bebbington (Eds) Glasgow http://sue-mot.org/conference-2007/papers	
Forum for the	2007	The sustainable cities index ranking the largest 20 British cities, October	UK
Future		www.forumforthefuture.org /	
Frontier Eco- nomics,	2007	The Economic and Social Impacts of Water Trading Case studies in the Victorian Mur- ray Valley. Report for the Rural Industries Research and Development Corporation, National Water Commission and Murray–Darling Basin Commission, Barton Act Sep- tember www.rirdc.gov.au/fullreports/index.html	AUS
Frontier Econo-	2008	Approaches to urban water pricing Waterlines Occasional Paper No 7, Published by	AUS
mics,		the National Water Commission Canberra July	
		www.nwc.gov.au	
Garrido, A., M.R.	2007	Water Management in Spain: An example of changing paradigms. Paper presented at	ESP
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		www.rcep.org.uk/urban/report/green-infrastructure-david-goode.pdf	
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		Birmingham, UK. 9-10 Jan	
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Holt, P.K.	2006	Decision making framework for selecting sustainable wastewater reuse treatment tech- nologies. Young Water Professionals www.ywp.org.au/ywp2006/proceedings.html	AUS
Hurley, L.,	2007	A decision support system for water cycle management in new developments: user scenarios for consideration of sustainability imperatives. International Conference on Whole Life Urban Sustainability and its Assessment. M. Horner, C. Hardcastle, A. Price, J. Bebbington (Eds) Glasgow http://sue-mot.org/conference-2007/papers	Developed countries
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Jackson; J. I	2007	Implementing principles of sustainable development: the role of partnership and col- laboration in the design and construction of a new housing development at Upton, Northampton, UK. International Conference on Whole Life Urban Sustainability and its Assessment.M. Horner, C. Hardcastle, A. Price, J. Bebbington (Eds) Glasgow, http://sue-mot.org/conference-2007/papers	UK
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Johnson, B., M. Lehmann,	2006	Sustainability and Cities as Systems of Innovation. Danish Research Unit for Industrial Dynamics. DRUID Working Paper No. 06-17, Aalborg	EU
Jones, P., J. Patterson,	2007	The Development of a Practical Evaluation Tool for Urban Sustainability Indoor Built Environ,;16;3:255–272	Developed countries
Jonsson, D. K	2006	Situations of Opportunity for Infrasystems: Understanding and pursuing change to- wards environmental sustainability Division of Environmental Strategies Research – fms Department of Urban Planning and Environment Royal Institute of Technology, Stockholm,	SWE
Kain, J-H., H. Söderberg	2005	Management of Complex Knowledge in Planning for Sustainable Urban Development International Conference for Integrating Urban Knowledge & Practice Gothenburg, Sweden. May 29 – June 3,	Developed countries
Kärrmann, E.,	2001	Strategies towards sustainable wastewater management, in: Urban Water Vol. 3, S.	Developed countries



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Kayaga, S.	2007	Water demand management - shifting urban management towards sustainability, in:	Developed countries
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Keath, N. A and	2008	Are Extreme Events a Crisis or Catalyst for Sustainable Urban Water Management?	AUS
R. R. Brown		The Case of two Australian Cities, 11th International Conference on Urban Drainage, Edinburgh, UK	
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E. M ,J.Cramer		Water Sector, in: Sustainable Development Sust. Dev. (in press)	
Korhonen, J.	2007	Environmental planning vs. systems analysis: Four prescriptive principles vs. four de-	Global
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Lahti, P., et.al	2006	Towards Sustainable Urban Infrastructure, Helsinki	Global
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Lee, K. N.	2006	Urban sustainability and the limits of classical environmentalism, in: Environment & Ur-	Global
		banization, Vol 18(1), 9- 22	
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		vironmental Law, Vol. 12, No. 1, S. 3- 19	
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		Brazil and the United States. Journal of the American Water Resources Association	
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R. Küller,		powerment Environ Dev Sustain , Vol. 10:311–336	
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Mathur; V. N., et.al.,	2007	Defining, identifying and mapping stakeholders in the assessment of urban sustainabil- ity International Conference on Whole Life Urban Sustainability and its Assessment.M. Horner, C. Hardcastle, A. Price, J. Bebbington (Eds) Glasgow http://sue-mot.org/conference-2007/papers	Developed countries
Mell, I.C.	2007	Can Green Infrastructure promote the Urban Renaissance and aid urban sustainability in the UK? International Conference on Whole Life Urban Sustainability and its As- sessment.M. Horner, C. Hardcastle, A. Price, J. Bebbington (Eds) Glasgow http://sue-mot.org/conference-2007/papers	UK
Miller, G. et.al.		As Moving Towards a Sustainable City: Accomplishments & Agenda .September Pre- liminary Draft, New York	USA
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Ministerial Water and Sewerage Taskforce,	2006	Reform of Tasmania's Water and Sewerage Sector. Discussion Paper, Hobart Tas- mania, December <u>www.treasury.tas.gov.au/domino/dtf/dtf.nsf/v-pages/2AA2C8FFA7FA6D81-CA257-</u> <u>36700101092</u>	AUS
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Mitchell, C., et.al.	2007	Costing for Sustainable Outcomes in Urban Water Systems A Guidebook, Research Report 35 Sailsbury/Aus www.waterguality.crc.org.au/publications/report35 costing sustainable outcomes.pdf	AUS
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Niwa, N.,	2007	Industrial ecology as an instrument for innovative spatial planning Institute for Land Use Policies and Human Environment University of Lausanne . Switzerland. (o.J.)	Global
Office of Water (OW), United States Environ- mental Protec- tion Agency (EPA)	2005	Meeting with Utility Leaders on Sustainable Management, July 27-28, Meeting Sum- mary www.epa.gov	USA
OFWAT	2008	Ofwat's future strategy for customer charges for water and sewerage services: a con- sultation. Birmingham/UK; January www.ofwat.gov.uk	UK
OFWAT	2009	Ofwat's response to the independent review of competition and innovation in water markets; Birmingham, January, www.ofwat.gov.uk	UK



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