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Water Market Outlook

# *2016 Global Water Market Outlook*

*This book describes the water  
sector as it is structured in Italy,  
presenting innovative engineering,  
financial and managerial solutions*

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*implemented by the Italian water sector, through the experiences of its major stakeholders. The main themes addressed include water regulation, financing infrastructures, economic performance of the leading companies, abstraction,*

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*potabilization, distribution, treatment and purification technologies, energy production, and organizational restructuring. The last part of the work presents company profiles with important financial indicators, as well as*

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*future strategic postures. Written by leading Italian experts, the book reflects the remarkable advances that have been made in the field of water governance and environmental management. The book is especially valuable for*

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*researchers, water professionals, utility managers, as well as policy makers and foreign investors looking for opportunities. This work has been prepared as part of the research activities of the Observatory on Sustainable Water*

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*Industry, one of Agici's Research and Advisory units.*

*This book is about the issues, challenges and directions currently faced by water as a key resource for mankind. The book aims at providing a finer understanding of*

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*the water regulatory future. The contributions in this book are grouped around specific themes. In Part I, the contributions address the water challenge to public international law. In Part II, the authors explore the most pressing*

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*ethical, legal, and social issues. In Part III, the discussion covers the economic drivers shaping the future of water.*

*The book provides an overview on national policies and regulations related to water resource*



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*management in the Middle East and North African countries (MENA), where water scarcity problems are critical. The physical/natural constraints, socio-economic and political circumstances make the MENA*

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*region a sort of 'laboratory' for natural resource management and particularly water management. The book provides a good comparison on how neighboring countries with quite similar natural constraints and cultures are*

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*addressing water problems in different ways. It enlightens water resource specialists on successful experiences around the region and show cases the reforms undertaken in the water sector to meet the challenges posed by urbanization,*

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*food security, water pollution and climate change. The book constitutes nine chapters, seven of them with content from the main MENA countries. It starts with an introductory chapter that provides background information on the*

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*region's water resources with descriptive statistics and historical developments of the water sector. It ends with a chapter that summarizes the policy implications and main conclusions on the way forward for sustainable*

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*management of water in MENA  
countries.*

*Current Trends and Future  
Developments in (Bio-)  
Membranes: Membranes in  
Environmental Applications offers  
an overview of environmental*

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*pollution, covering the air, water, waste from agriculture and climate change, and including emerging offenders such as microplastics and electronic waste which can be solved by conventional and advanced membrane techniques.*

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*Chapters cover environmental pollution issues followed by specific membrane processes, problems related to environmental pollution, and the different techniques used for solving these problems. For each pollutant, such as CO<sub>2</sub> and*



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*fuel, water and wastewater, waste from agriculture, etc., specific membrane processes are described. Users will find a comprehensive overview on the environmental problems that influence climate change and*

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*aquatic/water preservation, CO2 emission and air pollution, metals, toxic pollutants in water, wastewater problems and treatments, and more. Presents an overview on the interconnections between membrane technology and*

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*environmental issues Provides a  
comprehensive review of the  
environmental pollution issues  
tackled by membrane processes  
Addresses key issues in energy  
production from renewable sources  
Experiences from the Global South*

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*Lessons Learnt and Long-Term  
Implications*

*The Global Innovation Index 2018  
Environmental Policy and Public  
Health*

*The Oxford Handbook of Energy  
and Society*

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*Air Pollution, Marine Plastics, and  
Coastal Erosion in the Middle East  
and North Africa*

*OECD Studies on Water Ten Years  
of Water Sector Reform in Eastern  
Europe, Caucasus and Central Asia*

**This book serves as a technical yet**

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**practical risk management manual for professionals working with water and wastewater organizations. It provides readers with a functional comprehension of water and wastewater operations as well as a broad understanding of industry derivations and various stakeholder**

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**interconnectivity. This knowledge is imperative, as most administrative professionals are proficient in their respective areas of expertise but sometimes lack fluency on the broader technical aspects of their organization's purpose, operations, and externalities. It also examines risk management best**

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**practices and provides an actionable review of doing the right thing, the right way, every time through a combination of core risk management principles. These include enterprise, strategic, operational, and reputational risk management, as well as risk assessments, risk/frequency matrixes,**



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**checklists, rules, and decision-making processes. Finally, the book addresses the importance of risk transfer through insurance policies and provides best practices for the prudent selection of these policies across different scenarios. Features: Provides an understanding of water and wastewater technical**

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**operations to properly implement sound risk management and insurance programs. Emphasizes the importance of building well-designed, resilient systems, such as policies, processes, procedures, protocol, rules, and checklists that are up to date and fully implemented across a business. Offers a**

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**detailed look into insurance policy terms and conditions and includes practical checklists to assist readers in structuring and negotiating their own policies. Handbook of Risk and Insurance Strategies for Certified Public Risk Officers and Other Water Professionals combines practical**

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**knowledge of technical water/wastewater operations along with the core subjects of risk management and insurance for practicing and aspiring professionals charged with handling these vital tasks for their organizations. Readers will also gain invaluable perspective and knowledge**

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**on best-in-class risk management and insurance practices in the water and wastewater industries.**

**While economic and social indicators in many Middle East and North Africa (MENA) countries have improved over the past three decades, the region's blue natural assets—clean air, healthy seas,**

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**and coastlines—have degraded virtually everywhere. Air pollution levels in the region's cities are among the highest in the world. Per capita marine plastic pollution is among the highest in the world; coastal erosion rates are the second fastest in the world. These combined challenges threaten local**

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**communities, livelihoods, and economies. In fact, the economic cost of MENA's deteriorating skies and seas is estimated at more than 3 percent of GDP per year. Blue Skies, Blue Seas: Air Pollution, Marine Plastics, and Coastal Erosion in the Middle East and North Africa reviews integrated**

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**solutions that the authors identify as the “four I’s”:**

- **Inform stakeholders about the sources of these challenges.**
- **Provide incentives that improve environmental outcomes for the public and the private sector.**
- **Strengthen institutions to lower air and plastic pollution and to mitigate uncontrolled**



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**development and erosion of coastlines. ●  
Invest in abatement options and  
promote sustainable solutions.  
Restoring MENA's blue skies and seas  
will benefit the health, livelihoods, and  
incomes of residents. There will  
inevitably be trade-offs, but choosing a  
path of green growth will create jobs,**

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**diversify economies, and make the region a better place for current and future generations. The actions of policy makers today will shape the trajectory of economies and communities for decades to come. An outstanding group of internationally-renowned comparative political**

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**scientists provide a substantive introduction to comparative politics. Thematic in organisation, readers are guided through a comprehensive analysis of the core methods, theories, and concepts in comparative politics. An unrivalled amount of empirical material in the text and on the**

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**supporting website illustrates key similarities and differences of political systems in practice. The wealth of empirical data also encourages students to go beyond the "what" of comparison to the "how". Combining cutting edge treatment of theories and truly global geographical coverage, this exciting**

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**textbook is essential reading for all  
comparative politics students.**

**The prosperity and national security of  
the United States depend directly on the  
prosperity and stability of both partner  
and competing countries around the  
world. Today, U.S. interests are under  
rising pressure from water scarcity,**

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**extreme weather events and water-driven ecological change in key geographies of strategic interest to the U.S. Those water-driven stresses are undermining economic productivity, weakening governance systems and fraying social cohesion in scores of countries and, in the process,**

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**undermining the vitality of rural livelihoods, fostering local and ethnic conflicts, driving broad migratory movements and contributing to the growth of insurgencies and terrorist networks. While the U.S. intelligence community has steadily expanded natural resource concerns in their**

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**global threat analyses, our overseas development assistance remains locked into provision of water and hygienic services rather than responding to the full sweep of global water challenges including governance and policy failures, growing conflicts over water and the need for promoting sustainable**



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**transboundary water arrangements in partner countries. A fundamental departure from the past is urgently needed. Based on 18 case studies, Water, Security and U.S. Foreign Policy provides an analytical framework to help policy makers, scholars and researchers studying the intersection of**

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**U.S. foreign policy with the environment and sustainability issues, interpret the impacts of water-driven social disruptions on the stability of partner governments and U.S. interests abroad. The book also delivers specific recommendations to reorient U.S. development and diplomatic**

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**engagements that can forestall and prevent social disruptions and ensuing threats to U.S. prosperity and national security.**

**Reconsidering the Impact of Climate Change on Global Water Supply, Use, and Management  
Technologies and Global Markets**

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**Losing Nature**

**Emerging Global Problems and  
Solutions**

**The Italian Water Industry**

**Managerial Perspectives**

**Wastewater: the untapped resource**

***The African Economic Outlook  
2017 presents the continent's***

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***current state of affairs and forecasts its situation for the coming two years.***

***This groundbreaking collection on global leadership features innovative and critical perspectives by scholars from***

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***international relations,  
political economy, medicine,  
law and philosophy, from  
North and South. The book's  
novel theorization of global  
leadership is situated  
historically within the classics  
of modern political theory and***

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***sociology, relating it to the crisis of global capitalism today. Contributors reflect on the multiple political, economic, social, ecological and ethical crises that constitute our current global predicament. The book***

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***suggests that there is an overarching condition of global organic crisis, which shapes the political and organizational responses of the dominant global leadership and of various subaltern forces. Contributors***



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***argue that to meaningfully address the challenges of the global crisis will require far more effective, inclusive and legitimate forms of global leadership and global governance than have characterized the neoliberal***

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***era.***

***Intensifying water constraints threaten food security and nutrition. Thus, urgent action is needed to make water use in agriculture more sustainable and equitable. Irrigated agriculture remains***

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***by far the largest user of freshwater, but scarcity of freshwater is a growing problem owing to increasing demand and competition for freshwater resources. At the same time, rainfed agriculture is facing increasing***

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***precipitation variability  
driven by climate change.  
These trends will exacerbate  
disputes among water users  
and inequality in access to  
water, especially for small-  
scale farmers, the rural poor  
and other vulnerable***

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***populations. The State of Food and Agriculture 2020 presents new estimates on the pervasiveness of water scarcity in irrigated agriculture and of water shortages in rainfed agriculture, as well as on the***

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***number of people affected. It finds major differences across countries, and also substantial spatial variation within countries. This evidence informs a discussion of how countries may determine appropriate***

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***policies and interventions, depending on the nature and magnitude of the problem, but also on other factors such as the type of agricultural production system and countries' level of development and their***

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***political structures. Based on this, the publication provides guidance on how countries can prioritize policies and interventions to overcome water constraints in agriculture, while ensuring efficient, sustainable and***



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***equitable access to water. Drinking water and wastewater services must be provided to many sectors of a nation's economy, including its industrial, commercial, and residential sectors. This forms the scope of the water***

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***industry's activities and it explains why the privatisation of water sanitation and water services has become a huge market and a much-debated issue in a number of jurisdictions. Historically the water industry has been run***

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***as a public service which is owned by the local or national government, recent trends suggest that the role of the private sector is increasing. The growing economic interests concerning water and wastewater services are***

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***generating a tension with the recent recognition of the human right to water and sanitation. This tension between human right and economic rules is the focus of this book, which reviews all the international rules that***

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***form the regulation of global  
water services.***

***Smart Water Technologies  
and Techniques***

***Beyond Scarcity***

***Public Engagement and  
Sustainable Urban Water  
Management***

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***Current Trends and Future  
Developments on (Bio-)  
Membranes  
Charting the Water  
Regulatory Future  
Festschrift in Honour of Asit  
K. Biswas  
The United Nations world***

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## ***water development report 2016: water and jobs***

***This is a Festschrift in honour of  
Professor Asit K. Biswas, for his  
manifold contributions to water  
resources policy and  
management and his extensive***

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***efforts over six decades to generate, synthesize, apply, and disseminate knowledge at national and global levels. Global Water Resources: Festschrift in Honour of Asit K. Biswas includes invited contributions on***



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***global water issues from 23 globally renowned leaders in the public and private sectors, as well as academia, who have made significant contributions to the field of water resources policy, management,***

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***development and governance.  
The vision and expertise of this  
distinguished group of experts  
provides a unique focus on  
unfolding water issues and their  
bearing on world development  
This book will be of great value***

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***to scholars, students, and policymakers interested in water resource governance, sustainable development, and climate change. The chapters in this book were originally published as a special issue of***

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***the International Journal of  
Water Resources Development.  
Economical, Political, and Social  
Issues in Water Resources  
provides a fully comprehensive  
and interdisciplinary overview of  
all three factors in their relation***

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***to water resources. Economic issues consist of Water accounting, Water economy, Water pricing, Water market, Water bank and bourse. Political issues consist of Water power and hydrogemistry, Water***

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***diplomacy and hydropolitics,  
Water rights and water laws,  
Water governance and policy,  
Shared water resources  
management, Water  
management systems, and social  
issues consist of Water and***

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***culture, civilization and history, Water quality, hygiene, and health, Water and society. This book familiarizes researchers with all aspects of the field, which can lead to optimized and multidimensional water***

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***resources management. Some of abovementioned issues are new, so the other aim of this book is to identify them in order to researchers can easily find them and use them in their studies. Includes diverse case studies***



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***from around the world Presents  
contributions from global and  
diverse contributors with  
interdisciplinary backgrounds,  
including water engineers,  
scientists, planners the  
economic, political and social***

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***issues surrounding water  
Contains in-depth definitions and  
concepts of each topic  
Water has always been a source  
of risks and opportunities in the  
Middle East and North Africa. Yet  
rapidly changing socioeconomic,***

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***political, and environmental conditions make water security a different, and more urgent, challenge than ever before. This report shows that achieving water security means much more than coping with water scarcity.***

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***It means managing water resources in a sustainable, efficient, and equitable way. It also involves delivering water services reliably and affordably, to reinforce relationships between service providers and***

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***water users and contribute to a renewed social contract. Water security also entails mitigating water-related risks such as floods and droughts. Water security is an urgent target, but it is also a target within reach. A***

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***host of potential solutions to the region's water management challenges exist. To make these solutions work, clear incentives are needed to change the way water is managed, conserved, and allocated. To make these***

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***solutions work, countries in the region will also need to better engage water users, civil society, and youth. The failure of policies to address water challenges can have severe impacts on people's well-being and political stability.***

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***The strategic question for the region is whether countries will act with foresight and resolve to strengthen water security, or whether they will wait to react to the inevitable disruptions of water crises.***



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***This report provides: An overview of the global market for specialty chemicals used in water treatment. Analyses of global market trends, with data from 2015, estimates for 2016, and projections of compound***

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***annual growth rates (CAGRs) through 2021. Elaboration on the influence of government regulations, current technology, and the economic factors that are and will shape the marketplace. A look at the***

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***regulatory environment which has been a driving force in the specialty water treatment chemicals industry. Analysis of the product life cycle and technology life cycle of various types of specialty chemicals***

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***used in water treatment. Information on competitor initiatives, and information with regard to demand for specialty chemicals used to develop new products and for new applications. Profiles of leading***

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***companies in the industry.  
Sustainable Solutions for Urban  
Water Security  
Narratives of Environmental  
Challenges in Brazil and India  
Cases of Excellence  
Finance for Sustainability in a***

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***Turbulent Economy  
Membranes in Environmental  
Applications  
Global Crises and the Crisis of  
Global Leadership  
The State of Food and  
Agriculture 2020***

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*As with the first edition, this second edition describes how environmental health policies are developed, the statutes and other policies that have evolved to address public health concerns associated with specific*

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*environmental hazards, and the public health foundations of the policies. It lays out policies for what is considered the major environmental physical hazards to human health. Specifically, the authors describe hazards from air,*



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*water, food, hazardous substances, and wastes. To this list the authors have added the additional concerns from climate change, tobacco products, genetically-modified organisms, environment-related diseases,*

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*energy production, biodiversity and species endangerment, and the built environment. And as with the first edition, histories of policymaking for specific environmental hazards are portrayed. This edition differs*

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*from its antecedent in three significant themes. Global perspectives are added to chapters that describe specific environmental hazards, e.g., air pollution policies in China and India. Also there is the material on*

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*the consequences of environmental hazards on both human and ecosystem health. Additionally readers are provided with information about interventions that policymakers and individuals can consider in*

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*mitigating or preventing specific environmental hazards.*

*Is safe and sustainable water and sanitation for all an unaffordable pipedream? This book surveys the worldwide development of water and sewage services and the*

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*challenges in meeting Sustainable Development Goal 6 (SDG6) along with climate change, population growth and urbanisation. It explores the reasons why current SDG6 progress is failing, including weak policy*

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*implementation, staff shortages and inadequate funding, as well as the limited impact of aid funding. The author contends that despite a series of innovations, debt finance remains too small to address needs of developing*

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*economies. Therefore, instead of advocating new funding, this book proposes addressing the funding gap through technological innovation and more efficient management and procurement through a series of examples that*



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*have challenged traditional assumptions. After four decades of good intentions, SDG6 is making a difference in monitoring shortfalls for the first time, allowing for more effective responses. This book outlines the role of*

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*innovation in hardware development, procurement and installation, and discusses how network management and operations can most effectively address funding gaps. The potential for savings is*

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*considerable, if effectively replicated. New approaches are driving forward affordable resilience, including nature-based solutions such as upstream habitat enhancement to retain water and improve downstream*

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*water quality; the circular economy, including water, nutrient, energy and heat recovery from wastewater; and demand management. This book will be of great value to scholars, policy makers and practitioners*

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*interested in the global finance of sustainable water and sanitation. Published to coincide with the Fourth United Nations Environmental Assembly, UN Environment's sixth Global Environment Outlook calls on*

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*decision makers to take bold and urgent action to address pressing environmental issues in order to protect the planet and human health. By bringing together hundreds of scientists, peer reviewers and collaborating*

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*institutions and partners, the GEO reports build on sound scientific knowledge to provide governments, local authorities, businesses and individual citizens with the information needed to guide societies to a truly*

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*sustainable world by 2050. GEO-6 outlines the current state of the environment, illustrates possible future environmental trends and analyses the effectiveness of policies. This flagship report shows how governments can put*



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*us on the path to a truly sustainable future - emphasising that urgent and inclusive action is needed to achieve a healthy planet with healthy people. This title is also available as Open Access on Cambridge Core.*

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*Much has been written about China's economy, as well as its business management system. China's Global Political Economy, however, is designed to bring together these two perspectives, serving to enhance our*

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*understanding of China's growing global role. Examining changes in the management strategies of foreign companies investing in China and Chinese enterprises doing business overseas, this book analyses China's political economy*

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*in the context of the Communist Party's changing policies. The introductory section begins by studying the aspects of Chinese economic growth as it impacts on domestic social issues and the projection of Chinese power*

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*abroad. Within this overall framework, it then goes on to critically assess the effects of foreign investment, business management strategies, human resource management, corporate social responsibility and the*

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*financial services sector. Arguing that the encouragement of consumption is a significant objective of the Chinese leadership, the last section is concerned with the importance of the food industry. This book will*

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*be of interest to students and scholars of Chinese business, management and international political economy, as well as policymakers and business practitioners.*

*Global Water Funding*

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*Innovative Studies*

*Blue Skies, Blue Seas*

*Energizing the World with  
Innovation*

*China's Global Political Economy*

*Comparative Politics*

*World Energy Outlook 2016*



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**This report evaluates how well EECCA countries have done in ensuring people's access to adequate water supply and sanitation services since their Economic, Finance, and Environment Ministers**

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adopted the Almaty Guiding Principles to support such efforts in 2000.

Environmental Management of Air, Water, Agriculture, and Energy brings together the most current state of knowledge on four major

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elements for sustaining life on planet Earth: air, water, food, and energy. It examines how green technology aids in mitigating the global water, energy, and climate change crises, including the use of

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electrostatic force and green infrastructure. The concepts of underwater vegetation and aquatic cultivation, as well as vertical farms, are presented to spark discussion on emerging water-

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energy-food nexus lessons, experiences, and opportunities. This book takes a comprehensive global-scale approach to examining potential future environmental scenarios and outcomes. Features: Analyzes

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the most recent research findings in each of the areas covered Synthesizes the state-of-the-art understanding Recommends ways to strive forward and to shape future research Serves as an educational

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tool for educators and students Supported by detailed examples and case studies, this book serves not only as an up-to-date source of information for environmental experts and researchers in the field,

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but also as an educational tool for relevant undergraduate and graduate courses. It is also suitable for industry professionals concerned with preserving planet Earth for generations to come.



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An Insightful Examination of Smart Water Systems and Technology Inland water supplies are under increasing pressure. Climate, social, and demographic change have begun tipping the balance

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toward demand management, as supplies begins to dwindle. Water and wastewater infrastructure will play a central role in the management of this increasingly valuable resource, and Smart Water

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**Technologies and Techniques:  
Data Capture and Analysis  
for Sustainable Water  
Management provides insight  
on a key part of the  
solution. Smart water  
applications optimise the  
way water and wastewater**

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services are used, allowing more efficient allocation of limited resources while adding flexibility to the system. Automation, real-time data capture, and rapid interpretation allow utilities and users to

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monitor, manage, and act on the part of the water cycle that matters to them, minimizing costs of providing service through optimal use of extant assets. This book brings together the core

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principles, key  
developments, and current  
state-of-the-art into a  
single resource that:  
Considers smart water within  
operational, economic,  
policy, and regulatory  
contexts Provides a

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comprehensive overview of  
the smart water concept and  
the latest advances in the  
field Examines key  
considerations and  
objections raised to date  
Discusses the potential  
value of smart water, from

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perception to policy Shows  
how smart water systems can  
optimize efficiency and  
flexibility of water and  
wastewater management  
Explores future directions  
for smart water development  
in the pursuit of balanced



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supply and demand Although primarily designed for water supply and sanitation, smart water systems may be applied to irrigation, reservoir and dam management, inland water flows, and more, making it a valuable asset as water

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scarcity begins to spread around the globe. This book answers the questions, assuages concerns, and explains the technology that could revolutionize the way water is accessed and supplied.

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Water is a finite and non-substitutable resource. As the foundation of life, societies and economies, it carries multiple values and benefits. But unlike most other natural resources, it has proven extremely

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difficult to determine its true 'value'. The 2021 edition of the United Nations World Water Development Report, titled "Valuing Water" assesses the current status of and challenges to the valuation

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of water across different sectors and perspectives and identifies ways in which valuation can be promoted as a tool to help improve its management and achieve global sustainable development.

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**Entrepreneurship and  
Industrialisation**

**The United Nations world  
water development report,  
2017**

**Economical, Political, and  
Social Issues in Water  
Resources**

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Issues, Challenges and  
Directions

African Economic Outlook

2017 Entrepreneurship and  
Industrialisation

Environmental Management of  
Air, Water, Agriculture, and

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## **Energy**

This volume presents a unique and comprehensive glimpse of current and emerging issues of concern related to potable water. The themes discussed include: (1) historical perspective of the



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evolution of drinking water science and technology and drinking water standards and regulations; (2) emerging contaminants, water distribution problems and energy demand for water treatment and transportation; and (3) using

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alternative water sources and methods of water treatment and distribution that could resolve current and emerging global potable problems. This volume will serve as a valuable resource for researchers and environmental

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engineering students interested in global potable water sustainability and a guide to experts affiliated with international agencies working toward providing safe water to global communities.

This book highlights the relationship

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between the water sector and various other sectors in order to establish an improved understanding of the importance of water resources as an essential cross-cutting vector of socio-economic development. The book

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is both policy and practice oriented and is not constrained by existing definitions on water security. It includes actual experiences of policy, management, development and governance decisions taken within the water sector, and

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examples on how these have affected the energy and agricultural sectors as well as impacted the environment, and vice versa, as appropriate. It also discusses trade-offs, short and long-term implications, lessons learnt, and the

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way forward. The book includes case studies on cities, countries and regions such as Australia, China, Singapore, Central Asia, Morocco, Southern Africa, France, Latin America, Brazil and California. The Global Innovation Index 2018

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provides detailed metrics about the innovation performance of 126 countries and economies around the world. Its 80 indicators explore a broad vision of innovation, including political environment, education, infrastructure and



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business sophistication. The GII 2018 analyses the energy innovation landscape of the next decade and identifies possible breakthroughs in fields such as energy production, storage, distribution, and consumption. It

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also looks at how breakthrough innovation occurs at the grassroots level and describes how small-scale renewable systems are on the rise.

Narratives of Environmental Challenges in Brazil and India:

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Losing Nature is comprised of research on the representation and interrogation of environmental issues in both subcontinents, Brazil and India.

Specialty Water Treatment  
Chemicals

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Global Water Security

Valuing Water

The United Nations World Water  
Development Report

Water Markets

Global Environment Outlook –  
GEO-6: Healthy Planet, Healthy

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People

The Regulation of the Global Water  
Services Market

Water management in  
industrialised western  
countries has long been seen  
as a technical process  
associated with pipes,

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drains and bureaucracies.  
This technical model of  
water management is now  
being questioned. This book  
examines the nature of  
contemporary water  
management and the prospects  
for and barriers to

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different forms of  
engagement with the public.  
In particular, it shows how  
historical and social  
scientific understandings  
develop and question current  
water management norms in  
relation to water in the

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landscape, water in the home and the hidden management of water beneath our streets and behind our walls. It is shown that the four-fold challenges of climate change, urbanisation, changing environmental



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standards and fiscal accountability mean that we can no longer rely on unseen technical fixes to erase the threats of pollution, water shortages and floods. Such concerns offer two prompts for public engagement and

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participation. First, on a purely instrumental level, public engagement can complement, or offer an obvious alternative to, technical fixes. Second, public engagement may provide a route to find new

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ways of addressing water and related challenges. The author offers a unique social science perspective on many of the socio-technical issues facing the management of water in urban settings in developed

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countries, where urban is interpreted broadly to include all areas served by piped water. Drawing on historical context and an extensive review of the published literature, as well as the author's own

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empirical studies, the work prompts broader discussions about how we manage water in contemporary society. It is invaluable for students and professionals in water resource management and planning.

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Changes in the planet's climate in recent years have led to significant impacts on natural resources and ecosystems. New strategies must be adopted in order to support the protection and continued development of

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numerous natural resources.  
Reconsidering the Impact of  
Climate Change on Global  
Water Supply, Use, and  
Management is a pivotal  
reference source for the  
latest scholarly material on  
the relationship between

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global climate changes and the planet's water ecosystems. Highlighting relevant environmental, social, and economic issues, this book is ideally designed for academics, researchers, policy makers,



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students, and practitioners interested in the impacts of climate change on global water resources.

The latest World Energy Outlook offers the most comprehensive analysis of what this transformation of

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the energy sector might look like, thanks to its energy projections to 2040. It reviews the key opportunities and challenges ahead for renewable energy, the central pillar of the low- carbon energy

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transition, as well as the critical role for energy efficiency.

The importance of small towns is gaining increased recognition as a result of two developments. The first development concerns the

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possible role of small towns in migration flows and urbanization. Development of small towns, in the form of improved basic services and other amenities, has been promoted in order to abate the impact of urbanization

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on large urban centres and to alleviate service provision pressures in major urban centers, whilst stimulating rural economies and eventually prompting social transformations. The second development concerns

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the targets set by the SDGs in 2015. SDG6 requires countries to ensure universal and equitable water services by 2030. This inclusive target requires that the water services needs of small towns are

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considered in the expansion of sustainable and equitable water services. This book aims to contribute to the study of water services in small towns by critically examining different approaches and experiences

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of water supply in small towns. It brings together empirical testimonies of how the implementation of reductionist models and the perseverance of certain principles underlying these models in the water sector



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have yielded suboptimal results. Much remains to be done before achieving universal service coverage in small towns is likely. In order to do that, we should start speaking of small towns as a category on their

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own and continue the work in elaborating further what these are and how they work. In Focus - a book series that showcases the latest accomplishments in water research. Each book focuses on a specialist area with

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papers from top experts in the field. It aims to be a vehicle for in-depth understanding and inspire further conversations in the sector.

Occupational Outlook  
Handbook

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Data Capture and Analysis  
for Sustainable Water  
Management

Global Water Resources

Overcoming water challenges  
in agriculture

Water, Security and U.S.  
Foreign Policy

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Innovation and efficiency as  
enablers for safe, secure  
and affordable supplies

Creating Prospects for a  
Sustainable Future in Rural  
Iran

Climate change and the  
depletion of resources will have

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a long-lasting effect on the globe. Thus, it is essential that businesses and organizations across the world adopt financial practices and strategies that allow them to continue their service, limit emissions, and

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preserve resources. However, these practices are only made more difficult to adopt within the context of a turbulent economy. In this context, it is imperative to research financial strategies to protect the environment and

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support business resilience. Finance for Sustainability in a Turbulent Economy provides international financial strategies to achieve sustainable business practices within a turbulent economy. It highlights the



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importance of maintaining environmental health in a cost-effective way. Covering topics such as environmental finance, renewable energy frameworks, and social responsibility, this premier reference source is an

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essential resource for  
environmental scientists,  
government officials, engineers,  
business executives,  
environmentalists, politicians,  
students and educators of higher  
education, researchers, and

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academicians.

In Iran, climate change combined with low adaptation capacity has an unparalleled impact on ecosystems as well as human livelihoods. The Roodasht region, in the lower part of the

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Zayandeh Rud basin in Central Iran, is severely affected by water scarcity, desertification and land degradation. This book describes the effects this has on the environment and society, analyzes the degree of

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vulnerability and suggests possible ways to improve land and water management. This book provides comprehensive and interdisciplinary insights into the environmental and social situation in the region, as well as

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possible solutions to deal with the current challenges. Written by German and Iranian scientists, NGO staff and government officials and bridging the gap between research and practical

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implementation, the book not only enhances our understanding of climate change and desertification, but also raises public awareness and promotes knowledge transfer between disciplines.

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Exploring water scarcity issues in light of the growing crisis in global water management, this book examines the applicability of water markets. It provides an overview and understanding of the presence of water markets



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across the globe, analysing the ways in which different countries and regions are grappling with water scarcity.

The Oxford Handbook of Energy and Society presents an overview of this expanding area

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that has evolved dramatically over the past decade, away from one largely dominated by structural, political economic treatments on the one hand, and social-psychological studies of individual-level attitudes and

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behaviors on the other, toward a far more conceptually and methodologically rich and exciting field that brings in, for example, social practices, system complexity, risk theory, social studies of science, and

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social movements theories. This volume seeks to capture the variety of scales and methods, and range of both conceptual and empirical analyses that define the field, while drawing particular attention to indigenous

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peoples, poverty, political power, communities and cities.

Organized into seven sections, chapters cover social theory and energy-society relations, political-economic perspectives, consumption dynamics, energy

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equity and energy poverty,  
energy and public, energy and  
governance, as well as emerging  
trends.

Water Policies in MENA  
Countries

Standing up to Climate Change

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Handbook of Risk and Insurance  
Strategies for Certified Public  
Risk Officers and other Water  
Professionals

Reconnecting People and Water  
Water Services in Small Towns  
A Global Assessment

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Water Security in the Middle East  
and North Africa

This book presents solutions to address water security in rapidly urbanizing cities, and explores the new paradigms of water security in changing contexts. Highlighting the latest developments in



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water research, changes in water policy, and current discourses on water security, the book also provides information and tools for local stakeholders, water managers, and policymakers to build the capacity for sustainable water governance. The

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book discusses a wide range of sustainable solutions and their implementation to ensure that the balance between water supply and demand remains sustainable in the long term, with a focus on local solutions to build capacity and developing policy

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awareness for a wide range of stakeholders. As the concept of urban water security in changing contexts is open to multiple interpretations, the authors set out various approaches. Providing an overview of the changing perspectives of urban water security in

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different contexts, the book is based on findings of the Asia-Pacific Network water security project at the United Nations University, Tokyo, as well as the authors' current research-based at Pokhara University, Nepal, Hosei University, Tokyo, Institute for the

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Global Environmental Strategies, Japan and the Australian National University, Australia. The book also includes the views of international authorities (such as water experts) on the subject. The solutions are complemented by analysis of case

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studies of various localized sustainable solutions at different scales. The book is a valuable resource for water professionals and policymakers around the globe, academics, teachers working in water-related areas, NGOs, think tanks, water research institutes, donor

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organizations, and international and  
local water utility services.

Potable Water