Record Nr. UNINA9910584476703321 The political economy of urban water security under climate change // **Titolo** edited by Larry Swatuk, Corrine Cash Pubbl/distr/stampa Cham, Switzerland: ,: Palgrave Macmillan, , [2022] ©2022 **ISBN** 3-031-08108-0 Descrizione fisica 1 online resource (280 pages) Collana International Political Economy Ser. 002 Disciplina Soggetti Water security Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Nota di contenuto

Nota di bibliografia Includes bibliographical references and index.

Intro -- Acknowledgements -- Contents -- Notes on Contributors --Acronyms -- List of Tables -- 1 Avoiding 'Day Zero': Challenges and Opportunities for Securing Water for Megacities -- Introduction --Politics, Political Economy, Political Ecology -- Power, Politics and Development -- Urban Challenges -- The Rise and Rise of Slums -- Who Will Deliver? -- Systems of Delivery -- What Have We Learned? -- The Book -- References -- 2 São Paulo's Water System: A Megacity's Efforts to Fight Water Scarcity -- Introduction -- Background -- Water Governance and Management -- Pricing and Cost Recovery -- Key Issues/Challenges -- Water Pollution -- Poverty and Illegal Settling Around the River Basins -- State of Calamity (Flooding and Drought) --Conflicts in Water Consumption -- Lack of Water Treatment -- Efforts to Achieve Water Security -- Infrastructure Development -- Building Citizen/Consumer Confidence -- National Regulations and Framework -- São Paulo Water Recovery Project (Reagua) -- Communication Campaigns -- Conclusion -- References -- 3 Challenges for Urban Water Security in London and Cape Town -- Introduction --Conceptualizing Water Security: Reductionist and Integrated Approaches -- Background: London and Cape Town Compared --Water in Context -- Climate Change -- Main Challenges in the Twenty-First Century -- Cape Town -- London -- In Search of Urban Water Security -- Toward IWRM? -- Managing Supply and Demand --Discussion -- Reductionist Approach -- The Integrative Approach --

Conclusion -- References -- 4 A Megacity's Hydrological Risk:
An Analysis of Water Security Issues in Jakarta City, Indonesia -Introduction -- Background of Jakarta, Indonesia -- Natural Physical
Characteristics of Jakarta, Indonesia -- Demographic Change over Time
-- Jakarta's Water Resources -- Ciliwung River -- Precipitation -- Water
User Profile.

Water Quality -- Cost of Water -- Governance Structures -- Challenges and Main Issues -- Inadequate Infrastructure -- Inadequate Wastewater Treatment and Sewerage Management -- Inadequate Management Systems and Poor Governance Structures -- Key Opportunities for Water Security and Sustainability -- Water Law -- The Sustainable Development Goals in Indonesia (2015-2030) -- Other Planning Initiatives -- Managing Rapid Urbanization -- Investment in Infrastructure and Management Systems -- Good Governance --Improving Integrated Water Resource Management (IWRM) --Education, Public Participation and Collaboration -- Conclusion --References -- 5 Creating Water-Secure Futures in Megacities: A Comparative Case Study of 'Day Zero' Cities-Bangalore and Chennai -- Introduction -- Background -- Bangalore -- Chennai -- Water Supply and Resources -- Bangalore -- Chennai -- Cauvery River --Water Use Profile -- Challenges -- Rapid Unplanned and Unregulated Urbanization -- Surface and Groundwater Contamination -- Heavy Reliance on Groundwater and Remote Resources -- Presence of Expansive Quasi-Legal Water Economies -- High-Modern Water Management Practices -- Climate Change as an Exacerbating Effect --Stakeholders -- International Actors -- State Governments --Municipal Governments -- Community Initiatives -- Discussion --Conclusion -- References -- 6 A Pathway for Beijing: Avoiding 'Day Zero' -- Introduction -- Background -- Governance Structure -- Water Laws -- Beijing Water Governance -- Key Challenges -- Water Pollution -- Climate Change -- Groundwater Withdrawals -- Population and Growing Demand -- Urban Flooding -- Unequal Access --Government Efforts and Strategies -- Urban Flood Mitigation --Wastewater Management -- South-North Water Diversion Project --Water Pricing -- Discussion -- Recommendations -- Conclusion --References.

7 Confronting the System: An Exploration of the Water Security Crisis in Melbourne -- Introduction -- Historical Overview: Differing Perceptions of Water and Land -- Water Profile -- Governance and Management -- Melbourne Water Corporation -- City of Melbourne -- State of Victoria -- Security Through Diversity Approach --Reducing Consumption Through the 'Target 155' Campaign --Management Profile -- Discussion -- Conclusion and Recommendations -- References -- 8 MENA Megacities Approaching Day Zero: A Comparative Study Between Cairo and Istanbul -- Introduction -- Background -- Cairo -- Istanbul -- Key Challenges in Achieving Water Security in Cairo -- Demand-Side Challenges -- Supply-Side Challenges -- Efforts Toward Sustainability -- Key Opportunities in Achieving Water Security in Cairo -- Demand-Side Opportunities -- Supply-Side Opportunities -- Key Challenges in Achieving Water Security in Istanbul -- Demand-Side Challenges --Supply-Side Challenges -- Efforts Toward Sustainability in Istanbul --Istanbul's Key Opportunities in Achieving Water Security -- Supply-Side Solutions -- Demand-Side Solutions -- Discussion -- Conclusions and Recommendations -- Cairo -- Istanbul -- References -- 9 Achieving Urban Water Security in Tokyo -- Introduction -- Background -- Study Area -- Water Resources -- Tokyo's Water Supply System and Water Needs -- Water Tariff Structure in Tokyo -- Water

Governance and Management -- Development of Water Resources -- Compensation Measures for Upstream Residents -- Using Water Effectively -- Key Issues and Challenges -- Climate Change -- Dry Spells -- Natural Disasters -- Pollution -- Water Privatization -- Efforts Made to Achieve Water Security -- Coordinated Drought Risk Management -- Stakeholder Participation in Water Resources Management -- IWRM at River Basin Level -- Tama River -- Tone River -- Water Conservation.

Water Conservation Forest -- Rainwater Harvesting -- Water Efficiency-Reclaimed Wastewater Use -- Emergency Services -- Flood Risk Reduction -- Pollution Control -- Privatizing Some Water Supplies as a Means to Ensuring Sufficient Funds -- Conclusion -- References -- 10 Toward Sustainability, Away from Collapse: Challenges for Twenty-First Century Megacities -- Introduction -- Density and Death -- Citizen Action and 'Stakeholder Participation' -- The Right to the City -- Complexity, Complex Systems and Integrated Management -- Paying for Water -- Smart Cities/Al/Surveillance and Monitoring -- Ethics, Trade-Offs, Tipping Points and the End of Civilisation -- References -- Index.