

Contents

Part I Global Change and the Nexus Approach to Management of Environmental Resources

- 1 The Nexus Approach to Governance of Environmental Resources Considering Global Change 3**
Mathew Kurian and Reza Ardakanian
- 2 The Water-Energy-Food Nexus: Enhancing Adaptive Capacity to Complex Global Challenges. 15**
Christopher A. Scott, Mathew Kurian and James L. Wescoat Jr.
- 3 The Nexus Approach to Managing Water, Soil and Waste under Changing Climate and Growing Demands on Natural Resources 39**
Rattan Lal

Part II Financing of Infrastructure Projects: Implications for Sustainability and Accountability

- 4 Intergovernmental Fiscal Relations: Questions of Accountability and Autonomy 63**
Linda Gonçalves Veiga and Mathew Kurian
- 5 Results-Based Financing and Its Potential Role in Advancing the Nexus Approach 83**
Mario Suardi and Mathew Kurian
- 6 Life-Cycle Cost Analysis of Infrastructure Projects 105**
V. Ratna Reddy and Mathew Kurian

Part III Strategies for Implementation: Guidance on Resource Reuse and Data Visualization

7 Applications of Life-Cycle Cost Analysis in Water and Wastewater Projects: Lessons from European Experience . . . 131
Georg Schiller and Stefan Dirlich

8 Designing Sustainable Wastewater Reuse Systems: Towards an Agroecology of Wastewater Irrigation. 153
Philipp Weckenbrock and Graham Alabaster

9 Visualization of Water Services in Africa: Data Applications for Nexus Governance. 189
Theresa Mannschatz, Manfred F. Buchroithner and Stephan Hülsmann

10 Policy Is Policy and Science Is Science: Shall the Twain Ever Meet? 219
Mathew Kurian and Reza Ardakanian



<http://www.springer.com/978-3-319-05746-0>

Governing the Nexus

Water, Soil and Waste Resources Considering Global
Change

Kurian, M.; Ardakanian, R. (Eds.)

2015, XX, 230 p. 39 illus., 28 illus. in color., Hardcover

ISBN: 978-3-319-05746-0