



Information, Models, and Sustainability : Policy Informatics in the Age of Big Data and Open Government /

Zhang, Jing,

editor

Luna-Reyes, Luis Felipe.,

editor

Pardo, Theresa A.,

editor

Sayogo, Djoko S.,

editor

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This book reflects on the emerging trends, development, and challenges of policy on sustainability using information technology, and provides valuable insights to both research and practice communities. Sustainability has become an important focus for government, civil society and the corporate community world-wide. Growing interest in addressing environmental deterioration and associated social inequality and economic challenges is shifting focus to this important issue. The lack of fresh water and arable land, extreme weather, rising cost of relying on fossil fuels, and poverty and regional instability, are drawing attention to the need for government intervention and policy instruments that encourage the development of sustainable alternatives. Governments can play a very important role in facilitating sustainable development through better public policies. First of all, public investments can be directed toward establishing incentives for renewable energy, energy efficiency, sustainable agriculture, and land and water conservation, or toward leveling the field for sustainable alternatives by phasing out the subsidies directed to unsustainable production and development. Second, regulatory and pricing mechanisms could help with the development of markets for sustainable products. This book engages policy informatics analytical and modeling approaches, stakeholder engagement in policy development, implementation and evaluation, and big data and policy informatics to generate valuable insights in the policy on sustainable energy, and will be of interest to researchers in public administration and sustainability, open data and information technology ecological economics

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Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es