Record Nr. UNINA9910790394003321 Autore Sovacool Benjamin K. Titolo The national politics of nuclear power: economics, security, and governance / / Benjamin K. Sovacool and Scott Victor Valentine London: New York: .: Routledge, . 2012 Pubbl/distr/stampa **ISBN** 1-136-29437-6 1-280-66025-2 9786613637185 0-203-11526-0 1-136-29438-4 Descrizione fisica 1 online resource (313 p.) Collana Routledge global security studies Altri autori (Persone) ValentineScott V 333.792/4 Disciplina Soggetti Nuclear energy - Economic aspects Nuclear energy - Political aspects Nuclear energy - International cooperation Nuclear power plants Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cover; Title; Copyright; Contents; List of figures; List of tables; Acknowledgments; List of Acronyms and abbreviations; 1 Introduction; Why nuclear power?; Contribution to nuclear scholarship; Methods and key concepts; Case selection; Introducing a theory of nuclear sociopolitical economy; National security and secrecy; Technocratic ideology; Economic interventionalism: Centrally coordinated energy stakeholder network; Subordination of opposition to political authority; Social peripheralization; Up ahead; 2 An introduction to nuclear power technology: Industry overview Nuclear reactor typesNuclear reactor generations; The basics of the nuclear lifecycle; Uranium mining and milling; Plant construction and operation; Interim and permanent waste storage; Used fuel reprocessing and disposal; Decommissioning; Nuclear technology and the socio-political economy; Nuclear technology and the political realm; Nuclear technology and the economics of electricity generation;

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Sommario/riassunto

This book offers a comprehensive assessment of the dynamics driving, and constraining, nuclear power development in Asia, Europe and North America, providing detailed comparative analysis. The book formulates a theory of nuclear socio-political economy which highlights six factors necessary for embarking on nuclear power programs: (1) national security and secrecy, (2) technocratic ideology, (3) economic interventionism, (4) a centrally coordinated energy stakeholder network, (5) subordination of opposition to political authority, and (6) social peripheralization. The book vali