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Descrizione fisica	1 online resource (XVII, 220 p. 59 illus., 2 illus. in color.)
Collana	Lecture Notes in Energy, , 2195-1284 ; ; 76
Disciplina	338.95207
Soggetti	Renewable energy resources Macroeconomics Industrial management—Environmental aspects Fossil fuels Aging Renewable and Green Energy Macroeconomics/Monetary Economics//Financial Economics Sustainability Management Fossil Fuels (incl. Carbon Capture)
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Promethean Technology and Fossil Fuels -- Solar Energy and Its Scope for the Future: an Assessment of Bio-Ethanol and PV Systems -- Credit, the Origin of Positive Money Interest and the Dual Nature of Money -- Real Capital, Debt Expansion and International Monetary Cooperation for More Sustainable and Equitable World -- The Inverted Population Pyramid, Time Allocation, and Empty Houses -- Working Population, Age Structure and GDP share in Primary Industry -- General Account Budget, Special Account Budget, and Redemption of Real Capital and National Bonds -- Collapsing Social Security Systems -- Conclusion: Possible Alternative Vision for Japan and the World.
Sommario/riassunto	This book discusses current challenges in Japan, focusing on the nation's rapidly aging population and low birth rate, along with persistent public bond issues with heavy interest payments, the potential collapse of social security systems, and income inequality, as

well as the global picture. In turn, it examines the accessibility of global fossil fuels and feasibility of large-scale solar energy use. A new theory of money, interest, and capital is put forward, together with a proposal for an alternative system of international monetary cooperation, to promote a more sustainable and equitable world. Specific topics discussed include • the inverted population pyramid, due to the dramatic change in human life spans and declining birth rates; • the rapidly shrinking workforce, aging population, and declining GDP share sourced from industry; • disproportionate debt expansion due to public bond issues and coping with a persistent budget deficit; • the potential collapse of social security systems combined with income inequality; and • how to mitigate these bio-economic predicaments. Global Energy Sources offers an essential guide for policymakers, economists, researchers, and all those concerned with establishing a sustainable and equitable society from both energy and monetary perspectives. Further, it will be of interest to readers around the world, as the lessons learned from Japan are crucial to other developed societies that may eventually face the same types of challenge. .

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