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Autore	Breeze Paul A.
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Edizione	[Third edition.]
Descrizione fisica	1 online resource (463 pages)
Disciplina	333.79320973 621.3121
Soggetti	Electric power production
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previous edition: 2014.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	An introduction to electricity generation -- Electricity generation and the environment -- Coal-fired power plants -- Natural gas-fired gas turbines and combined cycle power plants -- Piston engine-based power plants -- Combined heat and power -- Fuel cells -- Hydropower -- Tidal barrage power plants -- Power system energy storage technologies -- Wind power -- Geothermal power -- Solar power -- Marine power generation technologies -- Biomass-based power generation -- Power from waste -- Nuclear power.
Sommario/riassunto	This revised third edition of Power Generation Technologies explores even more renewable technologies in detail, from traditional fossil fuels and the more established alternatives such as wind and solar power, to emerging renewables such as biomass and geothermal energy. The book also features new expanded chapters on tidal project proposals, tidal bunds, enhanced geothermal technology, fast-moving areas in marine energy and the development of floating wind turbines. Power Generation Technologies is more than just an account of the technologies – for each method the author explores the economic and environmental costs and risk factors. Each technology is covered using the same basic criteria, so that comparisons between technologies can

be made more easily. Those who are involved in planning and delivering energy, including engineers, managers and policy makers, will find a guide through the minefield of maintaining a reliable power supply, meeting targets on greenhouse gas emissions, and addressing economic and social objectives in this book. Explains in hundreds of diagrams how each technology functions in practice Evaluates the economic and environmental viability of each power generation system covered Features fast-advancing renewable and alternative power sources, such as municipal waste and solar options Applies a fresh focus on the evolution of traditional technologies such as natural gas and 'clean coal'
