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Titolo	Revista española de medicina nuclear
Pubbl/distr/stampa	[Barcelona], : Elsevier España, -©2011
ISSN	2173-5069
Descrizione fisica	1 online resource
Disciplina	616.07575
Soggetti	Nuclear medicine Diagnostic imaging Nuclear Medicine Diagnostic Imaging Medicina nuclear Imatgeria per al diagnòstic Periodical Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico

2. Record Nr. UNINA9910739462603321

Autore	Bartnik Ryszard
Titolo	The modernization potential of gas turbines in the coal-fired power industry : thermal and economic effectiveness / / Ryszard Bartnik
Pubbl/distr/stampa	London ; ; New York, : Springer, c2013
ISBN	1-299-19709-4 1-4471-4860-6
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (viii, 69 pages) : illustrations
Collana	SpringerBriefs in applied sciences and technology, , 2191-530X
Disciplina	621.433
Soggetti	Gas-turbine power-plants Coal-fired power plants Electric power production
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 2191-530X." "ISSN: 2191-5318 (electronic)."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1.Introduction -- 2.Thermodynamic fundamentals for production of electric power in hierarchical j-cycle systems -- 3.In-series or parallel system? -- 4.Energy efficiency of repowering a power unit by installing a gas turbogenerator in a parallel system -- 5.Selection of an optimum gas turbogenerator for the repowered power unit -- 6.Selection of the structure of the heat recovery steam generator for the repowered power unit -- 7.Comparison of specific cost of producing electricity in a 370 MW power unit adapted to dual-fuel gas-steam system and in a new one operating under supercritical parameters -- 8.Summary and final conclusions.
Sommario/riassunto	The opportunity of repowering the existing condensing power stations by means of gas turbogenerators offers an important opportunity to considerably improvement of their energy efficiency. The Modernization Potential of Gas turbines in the Coal-Fired Power Industry presents the methodology, calculation procedures and tools used to support enterprise planning for adapting power stations to dual-fuel gas-steam combined-cycle technologies. Both the conceptual and practical aspects of the conversion of existing coal-fired power plants is covered. Discussions of the feasibility, advantages and

disadvantages and possible methods are supported by chapters presenting equations of energy efficiency for the conditions of repowering a power unit by installing a gas turbogenerator in a parallel system and the results of technical calculations involving the selection heating structures of heat recovery steam generators. A methodology for analyzing thermodynamic and economic effectiveness for the selection of a structure of the heat recovery steam generator for the repowered power unit is also explained. The Modernization Potential of Gas turbines in the Coal-Fired Power Industry is an informative monograph written for researchers, postgraduate students and policy makers in power engineering.