1. Record Nr. UNINA9910819504503321

Autore	Zhu Frank Xin X
Titolo	Energy and optimization for the process industries / / Frank Xin X. Zhu
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley and Sons, Incorporation, , 2014 ©2014
ISBN	1-118-78250-X 1-118-78254-2 1-118-78253-4
Descrizione fisica	1 online resource (xvii, 513 p.) : ill
Classificazione	TEC009010
Disciplina	658.5
Soggetti	Production engineering Manufacturing processes - Cost control Manufacturing processes - Environmental aspects Energy conservation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Machine generated contents note: Dedications Preface Part 1: Basic concepts and theory Chapter 1: Overview of this book 1.1 Introduction 1.2 Who is the book written for 1.3 Five ways to improve energy efficiency 1.4 Four key elements for continuous improvements 1.5 Promoting improvement ideas in the organization Chapter 2: Theory of Energy Intensity 2.1 Introduction 2.2 Definition of energy intensity for a process 2.3 The concept of fuel equivalent for steam and power 2.4 Energy intensity for a total site 2.5 Concluding remarks 2.6 Nomenclature 2.7 References Chapter 3: Energy benchmarking 3.1 Introduction 3.2 Data extraction from historian 3.3 Convert all energy usage to fuel equivalent 3.4 Energy balance 3.5 Fuel equivalent for steam and power 3.6 Energy performance index method for energy benchmarking 3.7 Concluding remarks 3.8 Nomenclature 3.9 References Chapter 4: Key indicators and targets 4.1 Introduction 4.2 Key indicators represent operation opportunities 4.3 Define key indicators 4.4 Set up targets for key indicators 4.5 Economic evaluation for key indicators 4.6 Application 1: Implementing key indicators into

balances 16.1 Introduction 16.2 Guidelines for generating steam balance 16.3 A working example for generating steam balance 16.4 A practical example for generating steam balance 16.5 Verify steam balance 16.6 Concluding remarks 16.7 Nomenclature 16.8 References Chapter 17: Determining steam pricing 17.1 Introduction 17.2 The cost of steam generation from boiler 17.3 Enthalpy-based steam pricing 17.4 Work-based steam pricing 17.5 Fuel equivalent-based steam pricing 17.6 Cost-based steam pricing 17.7 Comparison of different steam pricing methods 17.8 Marginal steam pricing 17.9 Effects of condensate recovery on steam cost 17.10 Concluding remarks 17.11 Nomenclature 17.12 References Chapter 18: Benchmarking steam and power system 18.1 Introduction 18.2 Benchmark steam cost - minimize generation cost 18.3 Benchmark steam and condensate losses 18.4 Benchmark process steam usage and energy cost allocation 18.5 Benchmark steam system operation 18.6 Benchmark steam system efficiency 18.7 Nomenclature 18.8 References Chapter 19: Steam and power management and optimization 19.1 Introduction 19.2 Optimizing steam header pressure 19.3 Optimizing steam equipment loadings 19.4 Optimizing onsite power generation versus import 19.5 Minimizing steam letdowns and venting 19.6 Optimizing steam system configuration 19.7 Developing steam system optimization model 19.8 Nomenclature 19.9 References Part 5: Retrofit project evaluation and implementation Chapter 20: Determine true benefits from OSBL 20.1 Introduction 20.2 Energy improvement options under evaluation 20.3 A method for evaluating energy improvement options in OSBL 20.4 Feasibility assessment and make decision for implementation Chapter 21: Determine true benefits from operation variations 21.1 Introduction 21.2 Collect online data for the whole operation cycle 21.3 Normal distribution and Monte Carlo simulation 21.4 Basic statistic summary for normal distribution 21.5 Nomenclature 21.6 References Chapter 22: Feasibility Assessment 22.1 Introduction 22.2 Scope and stages of feasibility assessment 22.3 Feasibility assessment methodology 22.4 Get the project basis and data right in the very beginning 22.5 Get the project economics right 22.6 Don't forget OSBL costs 22.7 Squeeze capacity out of design margin 22.8 Identify and relax plant constraints 22.9 Interactions of process conditions, yields ad equipment 22.10 Don't get misled by false balances 22.11 Prepare for fuel gas long 22.12 Two revamp cases for shifting bottlenecks 22.13 Concluding remarks 22.14 Nomenclature 22.15 References Chapter 23: Create optimization culture with measurable results 23.1 Introduction 23.2 Site wide energy optimization strategy 23.3 Case study of the site wide energy optimization strategy 23.4 Establishing energy management system 23.5 Energy operation management 23.6 Energy project management 23.7 An overall work process from idea discovery to implementation 23.8 References .

Sommario/riassunto

Exploring methods and techniques to optimize processing energy efficiency in process plants, Energy and Process Optimization for the Process Industries provides a holistic approach that considers optimizing process conditions, changing process flowschemes, modifying equipment internals, and upgrading process technology that has already been used in a process plant with success. Field tested by numerous operating plants, the book describes technical solutions to reduce energy consumption leading to significant returns on capital and includes an 8-point Guidelines for Success. The book provides managers, chemical and mechanical engineers, and plant operators with methods and tools for continuous energy and process improvements.

2.

Record Nr.	UNISANNIOTO00968891
Autore	D'Egidio, Franco
Titolo	Il bilancio dell'intangibile : per determinare il valore futuro dell'impresa / Franco D'Egidio ; con prefazione di Stefano Azzolari e postfazione di Alberto Bombassei
Pubbl/distr/stampa	Milano, : F. Angeli, 2001
ISBN	8846428331
Descrizione fisica	166 p. ; 23 cm.
Collana	La società industriale e postindustriale , . Sez. 2, Saggi ; 54
Classificazione	HG 4028.B8
Disciplina	658 658.4 658.8
Soggetti	IMPRESE - VALUTAZIONE
Collocazione	POZZO LIB.ECON MON 78
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia