ISO 50045:2019 (E)

Technical guidelines for the evaluation of energy savings of thermal power plants

Contents

	Fore	Foreword	
Introduction		duction	
1	Scop	Scope	
2	Norm	Normative references	
3	Term	Terms and definitions	
	-		
4	Symi	Symbols, units and abbreviations	
5	Evalu	Evaluation of energy savings	
	5.1	General	
	5.2	Principles	
	5.3	Evaluation indexes	
6	Unit	Unit component efficiency	
	6.1	Boilers	
	6.1.1	Boundary	
	6.1.2	Boiler energy balance	
	6.1.3	Boiler efficiency calculations	
	6.1.4	Others	
	6.2	Steam turbine/generator efficiency	
	6.3	Gas turbine efficiency	
	6.3.1	General	
	6.3.2	Simple cycle gas turbine systems	
	6.3.3	Combined cycle power plants	
7	Calcu	Calculation of evaluation indexes	
	7.1	Fuel equivalent	
	7.2	Fuel equivalent consumption rate	
В	Analy	Analyses and performance evaluation	
	8.1	Procedure for evaluation	
	8.2	Evaluation of energy savings	
	8.2.1	Determination of energy savings income	
	8.2.2	Analyses for financial benefits	
9	Repo	Reporting	
	9.1	Project overview	
	9.2	Current status and energy consumption of equipment	
	9.3	Analysis of influencing factors	
	9.4	Analysis of energy-savings potential	
	9.5	Suggestions and measures for energy-savings	
			

Page count: 22