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Nota di contenuto	Identification of Cleaner Production Improvement Opportunities; Contents; Acknowledgments; Foreword; Preface; Section I: Cleaner Production and Waste; Introduction; Manual; Cleaner Production and Sustainable Manufacturing; Why Waste?; Waste; Cleanest Production-""ZERO"" Waste; Root Causes; Opportunity Identification; Resources and Duties; Summary; References; Section II: Waste Stream Selection; Introduction; Process Waste; Treatment Cost; Value of Waste Minimization; Value of Improved Feed Material Utilization; Select Process Waste Streams; References Section III: Preparation for Opportunity IdentificationIntroduction; Collect Data; Team Data Package; Define the Problem; Show Stoppers; Preparation to Generate Options; Summary; Section IV: Opportunity Identification; Introduction; Set Goals; The Brainstorming Session; Brainstorming Responsibilities; Brainstorming Room Setup and Supplies; Idea Generation; Screening the Options; Section V:

Opportunity Evaluation and Final Report; Introduction; Evaluate "Best" Opportunities; Economic Criteria for Technology Comparisons; Opportunity Assessment; Revisit Opportunity Assessment; Final Report Appendix A: Forms and HandoutsPurpose; Waste Stream Description Form; Process Flow Chart for a Chemical Process; Function Description Form; Process Chemistry; Process Chemistry Form; Process Constituents and Sources; Component Information; Component Property Form; Participant Responsibilities; Sample Invitation Letter; Typical Questions for Each Participant to Consider; Typical Ground Rules for a Brainstorming Session; Opportunity Assessment; Appendix B: Chemical Plant Final Report; Introduction; Summary; Top Ideas; All Ideas Proposed; Waste Minimization Program Purpose Brainstorming Session: Purpose and ProductsBrainstorming Session: Agenda; Participants' Responsibilities; Problem Definition; Process Flowsheet; Flow Chart; Process Flowsheet and Flow Chart Function Forms; Mass Balances; Process Chemistry Form; Component Information; Component Property Form; Review Chapters; Index

Sommario/riassunto

Regardless of its size or nature, every industry generates waste and is responsible for imple-menting the practices of pollution prevention and waste minimization in its day-to-day operations. Whether it's dirty water or toxic wastes, industrial pollution is all the same in one way: it reduces a business's profitability. Identification of Cleaner Production Improvement Opportunities urges environmental, health, and safety department managers, industrial environmental consultants, and personnel across all chemical engineering industries to employ a forward-thinking and tested technology of proc