1. Record Nr. UNINA9910816629803321 Autore Young Gary C. <1943-> Titolo Municipal solid waste to energy conversion processes [[electronic resource]]: economic, technical, and renewable comparisons / / Gary C. Young Hoboken, NJ,: Wiley, c2010 Pubbl/distr/stampa **ISBN** 1-118-02927-5 0-470-60860-9 0-470-60861-7 9786612688201 Descrizione fisica 1 online resource (398 p.) Disciplina 662/.87 Soggetti Refuse as fuel Waste products as fuel Refuse and refuse disposal Incineration Resource recovery facilities Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Includes index. Note generali MUNICIPAL SOLID WASTE TO ENERGY CONVERSION PROCESSES: Nota di contenuto CONTENTS; Preface; Professional Biography; 1 Introduction to Gasification / Pyrolysis and Combustion Technology(s); 2 How Can Plasma Arc Gasification Take Garbage to Electricity and a Case Study?; 3 How Can Plasma Arc Gasification Take Garbage to Liquid Fuels and Case Studies?; 4 Plasma Economics: Garbage/Wastes to Electricity, Case Study with Economy of Scale: 5 Plasma Economics: Garbage/Wastes to Power Ethanol Plants and a Case Study; 6 From Curbside to Landfill: Cash Flows as a Revenue Source for Waste Solids-to-Energy Management 7 Plasma Economics: Garbage/Wastes to Power, Case Study with Economics of a 94 ton/day Facility8 Plant Operations: Eco-Valley Plant in Utashinai, Japan: An Independent Case Study; 9 Municipal Solid

Waste and Properties; 10 MSW Processes to Energy with High-Value Products and Specialty By-Products; 11 MSW Gasifiers and Process

Sommario/riassunto

Equipment; 12 Other Renewable Energy Sources; 13 Waste Energy to Recycled Energy; Index

A technical and economic review of emerging waste disposal technologies Intended for a wide audience ranging from engineers and academics to decision-makers in both the public and private sectors, Municipal Solid Waste to Energy Conversion Processes: Economic, Technical, and Renewable Comparisons reviews the current state of the solid waste disposal industry. It details how the proven plasma gasification technology can be used to manage Municipal Solid Waste (MSW) and to generate energy and revenues for local communities in an environmentally safe manner with essentially no was