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| 1. Record Nr. | UNINA9910974499703321 |
| Titolo | Energy recovery // Edgard DuBois and Arthur Mercier, editors |
| Pubbl/distr/stampa | Hauppauge N.Y., : Nova Science Publishers, c2009 |
| ISBN | 1-61728-402-5 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (343 p.) |
| Altri autori (Persone) | DuBoisEdgard MercierArthur |
| Disciplina | 662/.87 |
| Soggetti | Waste products as fuel |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
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Sommario/riassunto

Energy recovery occurs when the energy that is released from a resource recovery process (i.e., pyrolysis/gasification) is used for another purpose such as to generate steam, fuel or electricity generation. This book examines the energy recovery technologies which use landfill gas to produce energy directly. An overview of a variety of secondary sludge post treatment methods for energy recovery is given, including incineration, gasification, pyrolysis, direct liquefaction, supercritical water oxidation (SCWO) and anaerobic digestion. The several routes that energy recovery can follow from waste are looked at as well, of which the most common is waste direct combustion associated with conventional energy recovery in a steam turbine cycle. Energy recovery in air conditioning systems to promote energy saving and improve environmental quality is also explored in this book.
