

1. Record Nr.	UNINA9910688590403321
Titolo	Biogas : recent advances and integrated approaches / / edited by Abd El-Fatah Abomohra [and four others]
Pubbl/distr/stampa	London, England : , : IntechOpen, , 2021
Descrizione fisica	1 online resource (188 pages)
Disciplina	665.776
Soggetti	Biogas
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Anaerobic digestion (AD) is by far the most important technology for providing clean renewable energy to millions in rural areas of many developing countries. AD of biowastes produces both biomethane and anaerobic digestate as a byproduct that can be used further as a biofertilizer. Biowastes including sewage, food processing wastes, animal wastes, and lignocellulosic wastes typically produce biogas containing 55%-70% biomethane. In the context of energy consumption, more than 85% of the total energy consumed currently comes from non-renewable fossil resources. Biogas technology can provide sustainable, affordable, and eco-friendly energy through waste recycling. This book provides basic knowledge and recent research on biogas production, focusing on the enhancement of biomethane and production routes integrated with microalgae cultivation or agriculture.</p>