

1. Record Nr.	UNINA9910583362103321
Autore	Miller Bruce G.
Titolo	Clean coal engineering technology / / Bruce G. Miller, Senior Scientist and Associate Director, EMS Energy Institute, The Pennsylvania State University, University Park, Pennsylvania
Pubbl/distr/stampa	Oxford : , : Butterworth-Heinemann, , [2017] 2017
ISBN	0-12-811366-9
Edizione	[Second edition.]
Descrizione fisica	1 online resource (xviii, 838 pages) : illustrations (some color), maps
Collana	Gale eBooks
Disciplina	662.620286
Soggetti	Clean coal technologies Coal - Environmental aspects Coal-fired power plants Coal-fired furnaces
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	The chemical and physical characteristics of coal -- Coal as fuel -- The effect of coal usage on human health and the environment -- Introduction to coal utilization technologies -- Anatomy of a coal-fired power plant -- Clean coal technologies for advanced power generation -- Coal-fired emissions and legislative action -- Particulate formation and control technologies -- Formation and control of sulfur oxides -- Formation control of nitrogen oxides -- Mercury emissions reduction -- Formation and control of acid gases and organic and inorganic hazardous air pollutants -- Carbon dioxide emissions reduction and storage -- Emerging technologies for reduced carbon footprint -- US and international activities for near-zero emissions during electricity generation -- The future role of coal.
Sommario/riassunto	This book provides significant information on the major power generation technologies that aim to utilize coal more efficiently, and with less environmental impact. It is geared towards professional and aspiring power, environmental, chemical and mechanical engineers.

