



Freedonia Focus Reports
US Collection

Coal: United States

October 2018



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About This Report

Scope

This report forecasts to 2022 US coal production and demand in short tons. Total production is segmented by rank in terms of:

- sub-bituminous
- bituminous
- lignite and anthracite

Total demand is segmented by market as follows:

- electric power
- commercial, industrial, and other markets

To illustrate historical trends, total production, total demand, the various segments, and trade are provided in annual series from 2007 to 2017.

Charcoal production and demand are excluded from the scope of this report, as charcoal is a product that can be made from wood, peat, coal, or other materials in a separate production process. Throughout this report, measures in tons refer to short tons. Re-exports of coal are excluded from demand and trade figures.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Coal: United States (FF45012) represents the synthesis and analysis of data from various secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 5 | NAICS & SIC Codes Related to Coal

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
212111	Bituminous Coal and Lignite Surface Mining	1221	Bituminous Coal and Lignite Surface Mining
212112	Bituminous Coal Underground Mining	1222	Bituminous Coal Underground Mining
212113	Anthracite Mining	1231	Anthracite Mining
221112	Fossil Fuel Electric Power Generation	4911	Electric Services

Source: US Census Bureau

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of

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1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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Resources

The Freedonia Group

Freedonia Industry Studies

Texas Oil & Gas Drilling Outlook, April 2017

Activated Carbon, October 2016

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Crude Petroleum: United States

Energy: United States

Explosives: United States

Manufacturing: United States

Mining & Quarrying: United States

Motor Vehicle Biofuels: United States

Natural Gas: United States

Refined Petroleum Products: United States

Renewable Energy: United States

Steel Mill Products: United States

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Trade Publications

American Metal Market

Coal Age

Engineering & Mining Journal

Mining

Power

World Coal

Agencies & Associations

American Coal Council

American Coalition for Clean Coal Electricity

Consumer Energy Alliance

National Mining Association

United States Army Corps of Engineers

United States Census Bureau

United States Energy Information Administration

United States Environmental Protection Agency

United States International Trade Commission

World Coal Association

World Energy Council