



Freedonia Focus Reports
US Collection

Engineering Services: United States

July 2022



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About This Report

Scope

This report forecasts to 2022 and 2026 US engineering services revenues in nominal US dollars. Total revenues are segmented by market in terms of:

- industrial and manufacturing
- commercial, public, and institutional
- transportation infrastructure
- power generation and distribution
- other engineering projects such as municipal utilities, hazardous and industrial waste systems, and telecommunications and broadcasting systems
- other revenue sources, such as construction services, engineering advisory and drafting services, and surveying and mapping services

Total revenues are also segmented by sector as follows:

- private
- public

To illustrate historical trends, total revenue and the various segments are provided in annual series from 2011 to 2021.

US engineering services providers' revenues include income from all domestic locations primarily engaged in providing engineering services. Thus, receipts from other activities performed by these locations are included in total revenues. Receipts from establishments that may provide such services but are primarily engaged in a different activity are excluded from this report. Domestic locations that perform services for foreign customers are also included in industry revenues.

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

Sources

Engineering Services: United States (FF95035) represents the synthesis and analysis of data from various secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental and non-governmental 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 6 | NAICS & SIC Codes Related to Engineering Services

NAICS/SCIAN 2017 North American Industry Classification System		SIC Standard Industrial Classification	
23	Construction	1081	Metal Mining Services
541330	Engineering Services	1382	Oil and Gas Field Exploration Services
541360	Geophysical Surveying and Mapping Services	1481	Nonmetallic Minerals Services, Except Fuels
541370	Surveying and Mapping (except Geophysical) Services	15	Building Construction General Contractors and Operative Builders
541420	Industrial Design Services	16	Heavy Construction Other Than Building Construction Contractors
541512	Computer Systems Design Services	17	Construction Special Trade Contractors
541620	Environmental Consulting Services	7373	Computer Integrated Systems Design
		7379	Computer Related Services, NEC
		7389	Business Services, NEC
		8711	Engineering Services
		8713	Surveying Services
		8748	Business Consulting Services, NEC

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 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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Commercial Building Construction: United States

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Manufacturing: United States

Metal Services: United States

Freedonia Custom Research

Trade Publications

Chemical Engineering

Design News

E&T

Engineering News-Record

Machine Design

Power Transmission Engineering

Agencies & Associations

American Institute of Chemical Engineering

American Society of Civil Engineers

American Society of Heating, Refrigerating & Air Conditioning Engineers

The American Society of Mechanical Engineers

Institute of Electrical and Electronics Engineers

Institute of Industrial & Systems Engineers

The Institution of Engineering and Technology

National Society of Professional Engineers

Society for Mining, Metallurgy & Exploration

Society of Petroleum Engineers

United States Census Bureau

United States Securities and Exchange Commission