

## Geoscience in Your State: Virginia

Businesses that help the state and the people prosper, make a difference, and improve processes that sustain life and the economy. Understanding the state's values and objectives, its resources, history, and landscape are deeply relevant to social, economic, environmental, health, and development issues.



- 13,000 employees, 100% self-employed
- 78 million dollars production in 2007
- \$2.5 billion in total investment in 2007
- World leader in business industry over 100 years
- 500 million US dollars in 2007

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- 72 (percentage) employees involved in employee
- 16 (million) report back probability period
- 57 (percentage) new positive employee pay
- 3 (million) report back not involved
- Drinking positive employees
- pack x 10<sup>3</sup>

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- 8,782 geoscience employees (excludes self-employed)<sup>1</sup>
- 298 million gallons/day: total groundwater withdrawal<sup>3</sup>

- \$1.25 billion: value of nonfuel mineral production in 2017<sup>4</sup>
- 64 total disaster declarations, including 17 severe storm, 15 flood, and 13 hurricane disasters (1953-2017)?
- \$18.8 million: NSF GEO grants awarded in 2017<sup>14</sup>...

## Read more in this Geoscience in Your State Factsheet...

### Agencies Working on Geoscience Issues in Virginia

#### **Virginia Department of Emergency Management**

<https://www.vaemergency.gov/>

The Virginia Department of Emergency Management works with local government, state and federal agencies and voluntary organizations to provide resources and expertise through the five mission areas of emergency management.

#### **Virginia Department of Energy**

<https://energy.virginia.gov/>

The Virginia Department of Energy enhances the development and conservation of energy and mineral resources in a safe and environmentally sound manner to support a more productive economy. Created as the Department of Mines, Minerals and Energy in January 1985 under Governor Chuck Robb, in 2021 legislation was enacted officially changing and rebranding the agency as a greater focus was placed on renewable energy programs and economic development. Worker safety remains the agency's top priority as it came into existence after a coal mining disaster in 1983 with the purpose of making service to mining, energy and mineral resources industries more efficient. Virginia Energy's Coal Mine safety, Gas and Oil and Mineral Mining teams came from Virginia's Department of Labor and Industry. The Renewable Energy and Energy Efficiency programs were under the State Office of Emergency Services. And, our Mined Land Repurposing team came to Virginia Energy from the Department of Conservation and Economic Development.

#### **Virginia Department of Environmental Quality**

<https://www.deq.virginia.gov/>

The Department of Environmental Quality protects and enhances Virginia's environment, and promotes the health and well being of the citizens of the Commonwealth. The DEQ has programs in air, water, land protection, renewable energy, coastal zone management, pollution prevention, and environmental information.

#### **Virginia Division of Geology and Mineral Resources**

<https://energy.virginia.gov/geology/geologymineralresources.shtml>

The Division of Geology and Mineral Resources (DGMR) serves as Virginia's geological survey. DGMR performs investigations aimed at reducing risk from geologic hazards and encouraging sustainable development through the wise use of mineral, land, water, and energy resources.

## Maps & Visualizations



Interactive map of offshore sand and gravel resources of the United States  
Bureau of Ocean Energy Management

The Bureau of Ocean Energy Management's Marine Minerals Information System (MMIS) provides an interactive map with information on offshore sand and gravel resources for 18 states on the Atlantic and Gulf coasts of the United States. The system includes: Sand and gravel resources Marine...

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## Case Studies & Factsheets



Geoscience in Virginia

By the numbers: Virginia 8,782 geoscience employees (excludes self-employed)1 298 million gallons/day: total groundwater withdrawal3 \$1.25 billion: value of nonfuel mineral production in 20174 64 total disaster declarations, including 17 severe storm, 15 flood, and 13 hurricane disasters (1953-...

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Webinars & Forums



Offshore Energy

This webinar is based on a Congressional briefing organized by the Advances in Earth Science coalition (16 May 2016). The webinar brings together experts from academia and government to explain the scientific and engineering tools that enable production in challenging environments far from land...

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