



# ECONOMIC IMPACT REPORT

## 2024

[ENERGY.VIRGINIA.GOV](https://energy.virginia.gov)

January 1, 2025

# LEADERSHIP

## **GLENN DAVIS**

*DIRECTOR OF VIRGINIA ENERGY*  
GLENN.DAVIS@ENERGY.VIRGINIA.GOV

## **LARRY CORKEY**

*POLICY & PLANNING MANAGER*  
LARRY.CORKEY@ENERGY.VIRGINIA.GOV

## **W.R. GAY**

*INTERNAL AUDIT & FOIA MANAGER*  
WILLIE.GAY@ENERGY.VIRGINIA.GOV

## **CLARA HARRIS**

*CHIEF FINANCIAL OFFICER*  
CLARA.HARRIS@ENERGY.VIRGINIA.GOV

## **JULIANNE SZYPER**

*DEPUTY DIRECTOR OF VIRGINIA ENERGY*  
JULIANNE.SZYPER@ENERGY.VIRGINIA.GOV

## **SUMI LANNEAU**

*CHIEF PEOPLE OFFICER*  
SUMI.LANNEAU@ENERGY.VIRGINIA.GOV

## **VINCE MAIDEN**

*DIRECTOR OF STATE ENERGY OFFICE*  
VINCE.MAIDEN@ENERGY.VIRGINIA.GOV

## **MIKE SKIFFINGTON**

*CHIEF OPERATING OFFICER*  
MIKE.SKIFFINGTON@ENERGY.VIRGINIA.GOV

# CONTACT US

## **OUR LOCATIONS:**

Richmond:  
(804) 692-3200

Big Stone Gap:  
(276) 523-8100

Charlottesville:  
(276) 523-8100

## **CALL US:**

Washington Building,  
8th Floor  
1100 Bank Street Richmond,  
Virginia 23219

3405 Mountain Empire Road  
Big Stone Gap, Virginia 24219

900 Natural Resources Drive  
Charlottesville, Virginia 22903

## **GENERAL INQUIRIES:**

[vaenergy@energy.virginia.gov](mailto:vaenergy@energy.virginia.gov)

## **PRESS CONTACT:**

[press@energy.virginia.gov](mailto:press@energy.virginia.gov)

# TABLE OF CONTENTS

<b>Virginia Energy 2024 Accomplishments</b>	<b>1</b>
<b>State Energy Office</b>	<b>2</b>
<b>Coal Mining &amp; Coal Mine Safety</b>	<b>5</b>
<b>Mineral Mining</b>	<b>7</b>
<b>Geology &amp; Mineral Resources</b>	<b>9</b>
<b>Oil &amp; Gas</b>	<b>11</b>
<b>Abandoned Mine Lands</b>	<b>13</b>
<b>Mined Land Repurposing</b>	<b>15</b>

# VIRGINIA ENERGY 2024 ACCOMPLISHMENTS

Secured over **\$500 MILLION** in federal funds to support Virginia's all-of-the-above energy strategy

Worked to bring the **WORLD'S FIRST** commercial fusion power plant to Virginia with the newly established **VIRGINIA CLEAN ENERGY INNOVATION BANK**

Oversaw a thriving energy sector supporting **190,000+ JOBS** statewide

Maintained a **PERFECT RECORD** of zero offsite impacts in oil and gas operations

Completed 24 abandoned mine land projects and invested \$5.2 million in **ECONOMIC DEVELOPMENT**

Reclaimed 3,720 acres of mined land while achieving **ZERO OFFSITE IMPACTS** for 248 permits

Mapped over 4,000 square miles of new geological areas, enhancing **ECONOMIC OPPORTUNITIES AND PUBLIC SAFETY**

# STATE ENERGY OFFICE

Virginia Energy is tasked with developing the plan for Virginia's energy future. Our experts work closely with the Governor's office to ensure that Virginia continues to have reliable, affordable and clean power 24 hours a day, 365 days a year.



# A HOLISTIC STRATEGY FOR BUILDING VIRGINIA'S RELIABLE, AFFORDABLE, AND INCREASINGLY CLEAN ENERGY FUTURE

Virginia Energy's integrated suite of programs addresses critical aspects of our energy landscape and positions Virginia as a global leader in energy innovation and technology.

## **VIRGINIA CLEAN ENERGY INNOVATION BANK**

Accelerating clean energy projects through innovative financing.

## **VIRGINIA POWER INNOVATION PROGRAM**

Funding advanced technologies and grid modernization.

## **DEMAND RESPONSE**

Reducing load during peak demand to enhance grid reliability.

## **SOLAR FOR ALL**

Expanding access to solar in low-income households.

## **COMMONWEALTH'S ENERGY SECURITY PLAN**

Providing a strategy to safeguard energy systems & ensure reliability.



## **AND MORE:**

HYDROGEN INFRASTRUCTURE DEVELOPMENT  
• CARBON CAPTURE & STORAGE • PEAK  
DEMAND GRID RESILIENCE • COMMERCIAL  
ENERGY UPGRADES • LOCAL ENERGY  
EFFICIENCY • LOW-INCOME ASSISTANCE  
• ENERGY SAVINGS

## POWERING VIRGINIA'S FUTURE IN 2024



**VIRGINIA CLEAN ENERGY INNOVATION BANK USHERS IN A NEW ERA OF CLEAN ENERGY WITH WORLD'S FIRST COMMERCIAL FUSION POWER PLANT.**

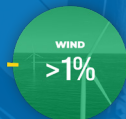
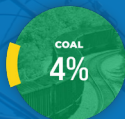
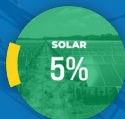
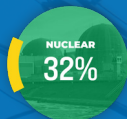
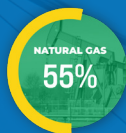


**VIRGINIA ENERGY BRINGS OVER \$500M IN FEDERAL FUNDING BACK TO VIRGINIA TO SUPPORT OUR ALL-OF-THE-ABOVE ENERGY STRATEGY.**



**VIRGINIA POWER INNOVATION PROGRAM MAKES INAUGURAL INVESTMENTS IN GRID RELIABILITY, CLEAN ENERGY, AND LINEWORKER SAFETY TECHNOLOGIES.**

## WHAT POWERS VIRGINIA?





# COAL MINING & COAL MINE SAFETY

Virginia Energy's Coal Mine Safety and Mined Land Repurposing division oversees safe and environmentally responsible coal mining in the state. Our team provides resources for safety, licensing, compliance, and reclamation, while regulating mining effects, issuing permits, and addressing citizen concerns about mining-impacted lands.



# A CORNERSTONE OF VIRGINIA'S ECONOMY

With approximately 80% of Virginia's coal being high-quality metallurgical coal, our state plays a crucial role in global steel production and variety of manufacturing processes worldwide. As advancements in infrastructure and manufacturing continue to evolve, Virginia's coal will remain a critical resource, securing our position in the global market and supporting our economic future.

## SAFETY IS OUR FIRST PRIORITY

Safety is Virginia Energy's top priority for the miners who keep our economy moving forward. Virginia Energy issued over 4,200 safety certifications and conducted 2,800+ inspections in 2024 alone. Our rigorous standards and continuous improvement in safety protocols ensure that Virginia's miners work in one of the safest environments in the industry.

### ACTIVE MINES:

30

### INDUSTRY JOBS:

2,200+

### TONS PRODUCED:

10,300,000+

### SAFETY CERTIFICATION ISSUED:

4,200+

### ECONOMIC VALUE:

\$1.8+ Billion

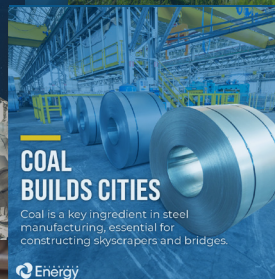
*Production and employment numbers based on based on most recent available data from the 2023 production year.*



### COAL POWERS INNOVATION

Carbon nanotubes derived from coal byproducts enable ultra-lightweight and radiation-resistant components for deep space exploration.

Energy



# MINERAL MINING

A large-scale mineral mining operation is shown against a clear blue sky. A massive, reddish-brown mound of earth dominates the center of the image. On the left, a yellow excavator is positioned on a smaller mound. To the right, a large, light-colored building with a gabled roof and a complex wooden support structure is built into the side of the main mound. A conveyor system is visible, transporting material from the base of the mound up towards the building. The foreground is filled with loose, reddish-brown soil and rocks.

From construction sites to art galleries, minerals extracted in Virginia are used in industries across the world and contribute thousands of jobs and billions of dollars to our economy. Virginia Energy provides for the safe and environmentally sound production of Virginia's non-fuel minerals, administering safety and regulatory programs for all mining operations.



# FROM ROCKS TO RICHES: VIRGINIA'S MINERAL MIGHT

Virginia's mineral mining industry produces tens of millions of tons of materials each year, contributing billions to Virginia's economic activity. Essential resources like sand, gravel, crushed stone, and granite support construction, manufacturing, and advanced technologies, fostering economic growth and providing thousands of jobs statewide.

Virginia Energy's Mineral Mining division oversees the state's permitting, licensing, certification, and training initiatives. This ensures the safe and environmentally sound production of Virginia's non-fuel minerals while fostering economic growth and maintaining rigorous safety and environmental standards.



Mid-Lothian Mine Park, Chesterfield, VA

### **INDUSTRY JOBS:**

6,700

### **TOTAL PRODUCTION:**

73M Tons

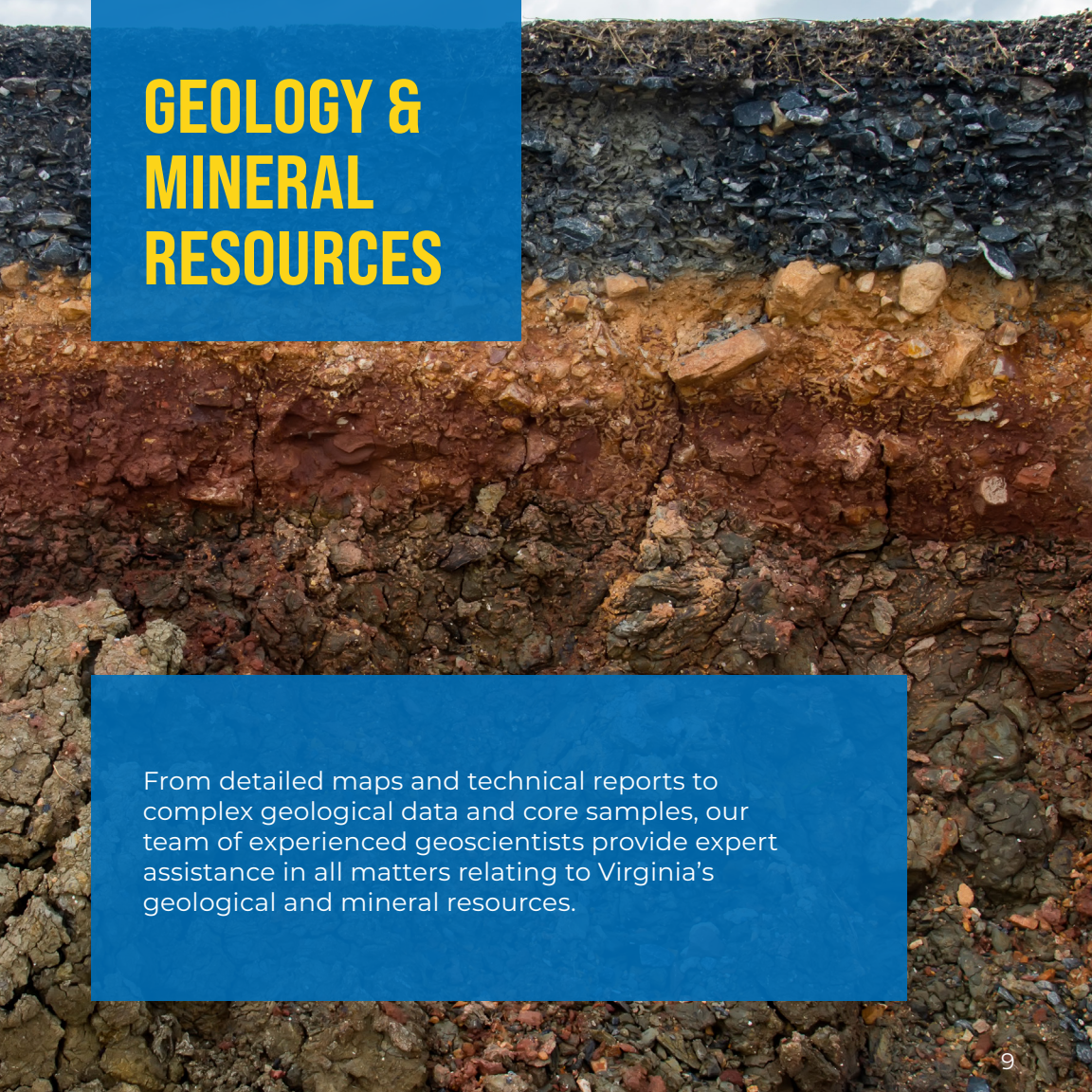
### **PRODUCTION VALUE:**

\$1.98B

### **MINERALS MINED:**

48

*Production and employment numbers based on based on most recent available data from the 2023 production year.*

A detailed geological cross-section showing various rock layers. The top layer is dark, possibly coal or shale. Below it is a layer of reddish-brown, fractured rock. The bottom layer is a lighter, more granular material. The background image is a high-resolution photograph of a rock face, showing the texture and color of the different geological formations.

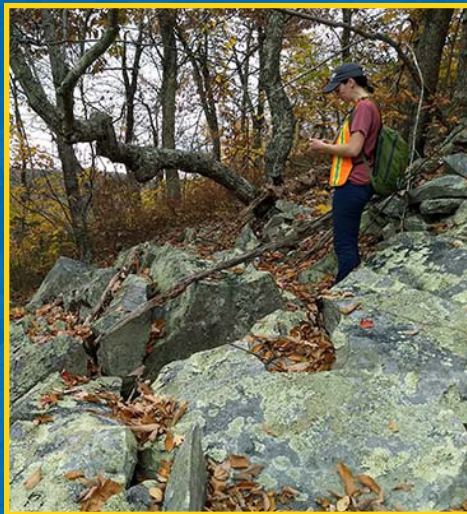
# GEOLOGY & MINERAL RESOURCES

From detailed maps and technical reports to complex geological data and core samples, our team of experienced geoscientists provide expert assistance in all matters relating to Virginia's geological and mineral resources.



# MAPPING VIRGINIA'S ECONOMIC FUTURE

In 2024, Virginia Energy's Geology and Mineral Resources division identified over 100 landslides, mapped new geological resources, and created digital resources that help leaders in the public and private sectors make informed economic development and community safety decisions. By providing crucial information on resources and potential hazards, Virginia Energy geologists are laying the foundation for a more prosperous and secure Commonwealth.



### **LANDSLIDES IDENTIFIED:**

100+

### **GIS DATABASES, REPORTS, & MAPS:**

35

### **NEWLY MAPPED LANDS:**

4,000+ square miles

*We perform investigations aimed at reducing risk from geologic hazards and encouraging sustainable development.*

# OIL & GAS

Over 10,000 wells have been drilled in Virginia since the state's first commercial natural gas well was established near Bristol in 1931. Today, Natural gas remains a crucial part of the Commonwealth's economy. Virginia Energy regulates gas and oil operations through permitting, inspections, client assistance, abandoned well reclamation, rights protections, and conservation efforts.



## NATURAL GAS IN VIRGINIA

**ACTIVE GAS WELLS:**

8,123

**GAS PRODUCED:**

83B Cubic Ft.

**PRODUCTION VALUE:**

\$800M

**INSPECTIONS CONDUCTED:**

4,300+

**NUMBER OF PERMITS ISSUED:**

1,300+

**OFFSITE IMPACTS IN 2024:**

0

*Production and employment numbers based on based on most recent available data from the 2023 production year.*

## POWERING VIRGINIA'S ECONOMY

Virginia's natural gas industry remains a vital component of the state's energy landscape, with 8,123 producing wells generating 82.9 billion cubic feet of gas valued at \$800 million in 2023. Natural gas accounts for over 50% of Virginia's total energy capacity, playing a critical role in the state's all-of-the-above energy strategy.

Virginia Energy's Oil and Gas division ensures safe and responsible production through rigorous oversight. The team help the industry achieve a perfect record of zero offsite impacts in 2024, a testament to the team's expertise and diligence in maintaining industry best practices.



# ABANDONED MINE LANDS

Virginia's Abandoned Mine Land (AML) Program was established in the late 1970s to address problems left over from coal mining operations such as landslides, water loss, and more. The AML Program works to protect public safety and the general welfare of communities impacted by abandoned coal mines and to restore the surrounding ecosystem.



# REVITALIZING VIRGINIA'S LAND

### PROJECTS/SITES COMPLETED:

24

### INVESTMENTS IN ECONOMIC DEVELOPMENT:

\$5.2M

## AML IMPACTS

Virginia Energy's Abandoned Mine Land program made significant strides in 2024, completing 24 projects to address safety and environmental hazards from pre-1977 coal mining. The program inventoried 925 new features, identifying potential public safety and environmental risks for future remediation. Through the AMLER program, \$5,207,833 was invested in economic development projects, transforming former mining sites into valuable assets for local communities.

*Breaks Interstate  
Waterpark Expansion,  
Dickenson County*



# MINED LAND REPURPOSING

Mined Land Repurposing (MLR) is responsible for ensuring the reclamation of land affected by surface and underground coal mining activity. Major functions include regulating surface effects of mining, performing inspections, and addressing citizen concerns.



# REPURPOSING VIRGINIA'S LAND

### ACRES RECLAIMED:

3,720

### PERMITS WITH ZERO OFFSITE IMPACTS:

248

## MLR IMPACTS IN 2024

The Mined Land Repurposing division demonstrated strong environmental stewardship in 2024, with 248 permits achieving zero offsite impacts. This success highlights the effectiveness of Virginia Energy's regulatory oversight and the industry's commitment to responsible mining practices. The program oversaw the reclamation of nearly 4,000 acres impacted by coal mining, restoring these lands for potential future economic use and environmental benefit.





**OUR LOCATIONS:**

Richmond:  
(804) 692-3200

Big Stone Gap:  
(276) 523-8100

Charlottesville:  
(276) 523-8100



**CALL US:**

Washington Building,  
8th Floor  
1100 Bank Street Richmond,  
Virginia 23219

3405 Mountain Empire Road  
Big Stone Gap, Virginia 24219

900 Natural Resources Drive  
Charlottesville, Virginia 22903



**GENERAL INQUIRIES:**

[vaenergy@energy.virginia.gov](mailto:vaenergy@energy.virginia.gov)

**PRESS CONTACT:**

[press@energy.virginia.gov](mailto:press@energy.virginia.gov)

*January 1, 2025*