WASHINGTON, D.C. AND NUCLEAR ENERGY

Key Facts
- U.S. nuclear power facilities generate 20 percent of our electricity while emitting no greenhouse gases.
- Nuclear energy is America’s most reliable power source, producing electricity around-the-clock.
- America’s nuclear facilities employ nearly 100,000 workers at salaries well above local averages.

Infrastructure for Clean, Reliable Electricity
Nuclear energy produces electricity for one in five homes and businesses across the United States, with nearly 100 reactors in 30 states. It protects air quality and public health because it emits no greenhouse gases. Nuclear energy generates nearly 20 percent of our nation’s electricity and provides more than 55 percent of our emission-free power, making it an essential partner to renewable energy. That makes it a good future energy choice for Washington, D.C.

Nuclear is also America’s most reliable source of electricity, producing power over 92 percent of the time over the past three years and ensuring power is available whenever it is needed. Nuclear energy is a vital part of U.S. infrastructure that keeps electricity prices and grids stable. It ensures that consumers are not overly reliant on just one or two sources of electricity.

Supporting Jobs and the Economy
- American innovators are developing new nuclear technologies that have the potential to create additional jobs and bring in export dollars.
- Nuclear energy is an American technology that employs nearly 100,000 people across the country.
- Nuclear power saves consumers an average of 6 percent on their electricity bills and contributes approximately $60 billion to the country’s GDP annually.

Sources of Electricity in DC

Other includes petroleum and geothermal along with hydro, wind and solar if they account for less than 3% of electricity generated.

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Comparison of Life Cycle Emissions
Tons of Carbon Dioxide Equivalent per Gigawatt-Hour

<table>
<thead>
<tr>
<th>Source</th>
<th>Emissions Prevented</th>
<th>Quantity Prevented in 2018</th>
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<tbody>
<tr>
<td>Sulfur dioxide (SO2)</td>
<td>346,485 short tons</td>
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<tr>
<td>Nitrogen oxide (NOX)</td>
<td>286,516 short tons</td>
<td></td>
</tr>
<tr>
<td>Carbon dioxide (CO2)</td>
<td>528 million metric tons</td>
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Source: U.S. Environmental Protection Agency and U.S. Energy Information Association

Managing Used Nuclear Fuel

- Each nuclear energy facility stores used fuel safely and securely on-site, awaiting consolidated storage and disposal by the U.S. Department of Energy.
- All the used nuclear fuel produced by the nuclear energy industry over 60 years—if stacked end to end—would cover an area the size of a football field to a depth of less than 10 yards.

Committed to Safety

- America’s nuclear energy facilities are among the safest and most secure industrial facilities.
- The independent U.S. Nuclear Regulatory Commission regulates and monitors plant performance in three areas: reactor safety, radiation safety and security.
- After more than 60 years of commercial nuclear energy production in the United States and more than 4,000 reactor years of operation, there have been no radiation-related health effects linked to the operation of nuclear energy facilities.

Nuclear Is Clean Air Energy

- The use of nuclear energy in 2018 prevented the emission of 528 million metric tons of carbon dioxide. This equals the amount released in a year by 112 million passenger cars.
- Nuclear energy is the only clean air electricity source that can produce large amounts of electricity around-the-clock.
- Numerous studies demonstrate that nuclear energy’s life cycle greenhouse gas emissions are comparable to renewable energy, such as wind and hydropower, and far less than coal or natural gas-fueled power plants.
- The nation’s nuclear energy facilities also prevented the emission of 346,485 short tons of sulfur dioxide and 286,516 short tons of nitrogen oxide in 2018.