# COMMITTEE ON SCIENCE, SPACE, AND TECHNOLOGY U.S. HOUSE OF REPRESENTATIVES HEARING CHARTER

Oversight of the Department of Energy's Research and Development Enterprise Tuesday, June 25, 2019 10:00AM EST 2318 Rayburn House Office Building, Washington, D.C. 20015

### **PURPOSE**

The purpose of the hearing is to examine the Department of Energy's research, development, and demonstration (RD&D) and commercialization activities, including the impact of the President's fiscal year (FY) 2020 budget request.

### **WITNESS**

• The Honorable Rick Perry, Secretary, U.S. Department of Energy

#### Background

The Department of Energy (DOE) supports a wide range of research, development, demonstration, and commercialization activities. This includes the management and support of 17 national laboratories, and programs that advance our scientific understanding and technologies in areas a varied as: nuclear power, materials science, renewable energy, particle physics, carbon capture and storage, fusion energy, computational modeling, energy efficiency, energy storage, modernization of the electric grid, climate research, engineering biology, next generation vehicle technologies, and more.

#### Budget

FY 2019 Enacted:	\$11.69 billion
FY 2020 Budget Request:	\$7.16 billion

Difference:

- \$4.53 billion (-38.8%)

# Office of Energy Efficiency and Renewable Energy

The mission of Office of Energy Efficiency and Renewable Energy (EERE) is to accelerate development and facilitate deployment of energy efficiency and renewable energy technologies.<sup>1</sup> EERE partners with industry and community leaders to bring clean energy technologies into the marketplace by providing research support and sharing developed technologies with industry and community leaders in the renewable electricity generation, buildings, manufacturing, and sustainable transportation sectors.<sup>2</sup>

The office houses such programs as DOE's Advanced Manufacturing, Buildings, Solar, Wind, Hydrogen and Fuel Cells, and Vehicles activities. The President's FY 2020 budget request proposes significant cuts to all EERE programs which range between 57% for water power to 82% for bioenergy technologies; and draw on \$353 million in previously appropriated but unspent EERE funds from FY 2018 and FY 2019 to meet the FY 2020 proposed funding level of \$696 million.

#### Budget

FY 2019 Enacted:	\$2.40 billion
FY 2020 Budget Request:	\$343 million
Difference:	- \$2.36 billion (-85.6%)

# Office of Electricity Delivery and Energy Reliability

The mission of the Office of Electricity Delivery and Energy Reliability (OE) is to ensure that the nation's energy delivery system is secure, resilient, and reliable. OE works to develop new technologies to improve the infrastructure that brings electricity into our homes, offices, and factories, and the federal and state electricity policies and programs that shape electricity system planning and market operations. OE also works to bolster the resilience of the electric grid and assists with restoration when major energy supply interruptions occur.<sup>3</sup>

#### Budget

FY 2019 Enacted:\$156 millionFY 2020 Budget Request:\$182.5 million

<sup>&</sup>lt;sup>1</sup> U.S. Department of Energy, DOE Program Offices <u>https://www.energy.gov/technologytransitions/doe-program-offices</u>

<sup>&</sup>lt;sup>2</sup> U.S. Department of Energy, EERE Partner Testimonials <u>https://www.energy.gov/eere/success-stories/partner-testimonials</u>

<sup>&</sup>lt;sup>3</sup> U.S. Department of Energy, DOE Program Offices <u>https://www.energy.gov/technologytransitions/doe-program-offices</u>

Difference:

\$26.5 million (+17%)

# Office of Cybersecurity, Energy Security, and Emergency Response

The Office of Cybersecurity, Energy Security, and Emergency Response (CESER) supports activities to improve energy infrastructure security, including preparedness and response to both natural and man-made threats.<sup>4</sup>

### Budget

FY 2019 Enacted:	\$120 million
FY 2010 Budget Request:	\$156.5 million
Difference:	\$36.5 million (+30.4%)

# **Office of Fossil Energy**

The Office of Fossil Energy is responsible for Federal research, development, and demonstration efforts on carbon capture, utilization, and storage (CCUS) technologies, efficiency water management, and other areas to mitigate the environmental impacts of coal and natural gas production and use.<sup>5</sup>

# Budget

FY 2019 Enacted:	\$740 million
FY 2020 Budget Request:	\$562 million

Difference:

-\$178 million (-24.1%)

The President's FY 2020 budget request would, if enacted, reduce federal support for FE R&D activities by 24.1% from the FY19 enacted level. This would include a 65% cut for CCUS R&D and a 40% cut for research activities to reduce emissions resulting from the extraction and use of natural gas.

<sup>&</sup>lt;sup>4</sup>U.S. Department of Energy, Cybersecurity, Energy Security, and Emergency Response, About Us https://www.energy.gov/ceser/about-us

<sup>&</sup>lt;sup>5</sup> About Fossil Energy, U.S. Department of Energy, Office of Fossil Energy <u>https://www.energy.gov/fe/about-fossil-energy</u>

## **Office of Nuclear Energy**

The Office of Nuclear Energy's (NE) seeks to resolve technical, cost, safety, security, and regulatory issues through research, development, and demonstration of nuclear technologies.<sup>6</sup>

Budget

FY 2019 Enacted:\$1.32 billionFY 2020 Budget Request:\$824 millionDifference:-\$502 million (-37.9%)

The President's FY 2020 budget request would, if enacted, reduce federal support for NE by 37.9% from the FY19 enacted level. This includes the elimination of the integrated university program, a 65.9% cut to fuel cycle R&D, and a 33.5% cut to advanced reactor concepts RD&D.

# **Advanced Research Projects Agency-Energy**

The Advanced Research Projects Agency-Energy (ARPA-E) advances high-risk, high-reward energy technologies that that neither the public nor the private sector had previously been willing or able to sufficiently support.

Since 2009, 71 projects supported by ARPA-E have led to the formation of new companies, 109 have partnered with non-DOE government agencies, and 136 have attracted over \$2.6 billion in private sector follow-on funding. ARPA-E projects have also produced 245 U.S. patents and 1,724 peer reviewed journal articles.<sup>7</sup>

Budget

FY 2019 Enacted:\$366 millionFY 2020 Budget Request:-\$287 million

Difference:

-\$653 million (-178.4%)

<sup>&</sup>lt;sup>6</sup> U.S. Department of Energy, DOE Program Offices <u>https://www.energy.gov/technologytransitions/doe-program-offices</u>

<sup>&</sup>lt;sup>7</sup> "ARPA-E Impact." Department of Energy. Accessed 21 Jun 2019 <u>https://arpa-e.energy.gov/?q=site-page/arpa-e-impact</u>

As it has in the President's FY 2018 and FY 2019 budget requests, the President's proposed FY 2020 budget has requested the elimination of ARPA-E and, if enacted, would rescind \$287 million of previously appropriated funding from FY 2018 and FY 2019.

# **Loan Programs Office**

The Department of Energy's Loan Programs, administered by the Loan Programs Office (LPO), enable DOE to work with private companies and lenders to mitigate the financing risks associated with first-of-a-kind commercial clean energy projects, and thereby encourage their development on a larger scale. LPO stewards two major programs, the Loan Guarantee Program and the Advanced Technology Vehicles Manufacturing Loan Program, through which it originates, guarantees, and monitors loans.<sup>8</sup>

Thus far, the LPO portfolio has issued \$35.7 billion in loans and loan guarantees. This portfolio has generated \$2.58 billion in interest payments to the federal government and the actual and estimated loans losses are \$810 million. These losses are approximately 3% of the total disbursements.<sup>9</sup>

# Budget

FY 2019 Enacted:	\$19 million
FY 2010 Budget Request:	-\$169.2 million

Difference: -\$188.2 million

As it has in the President's FY 2018 and FY 2019 budget requests, the President's FY 2020 budget request proposes to eliminate LPO.

# **Office of Science**

The U.S. Department of Energy Office of Science is the lead federal agency supporting scientific research for energy applications and the nation's largest supporter of research in the physical sciences, supporting over 22,000 investigators at over 300 U.S. academic institutions and the DOE laboratories. The Office of Science portfolio has two principal thrusts: direct support of

<sup>&</sup>lt;sup>8</sup> <u>https://www.energy.gov/sites/prod/files/2019/04/f61/doe-fy2020-budget-volume-3-part-1\_0.pdf</u>

<sup>&</sup>lt;sup>9</sup> <u>https://www.energy.gov/lpo/portfolio</u>

scientific research and direct support of the development, construction, and operation of unique, open-access scientific user facilities.

Budget

FY 2019 Enacted:\$ 6.58 billionFY 2010 Budget Request:\$ 5.54 billion

Difference:

-\$ 1.04 billion (-15.8%)

The President's FY 2020 budget request would, if enacted, reduce federal support for the Office of Science by 15.8% from the FY19 enacted level.

Within the Office of Science, the Biological and Environmental Research program would be cut by 29.9%. Fusion Energy Sciences would receive a 28.6% cut, High Energy Physics would receive a 15.2% cut, Basic Energy Sciences would receive 14.2% cut, and Nuclear Physics would receive a 9.4% cut.

# Attached

• Table of the President's FY 2020 budget request for Department of Energy Science and Energy programs

#### FY 2020 DOE Budget Request

				FY20R - FY19E		HFY20 - FY19E	
(in millions)	FY 2019 Enacted	FY 2020 Request	H - FY 2020 Report	Amount	Percent	Amount	Percent
Department of Energy Science and Energy	11,691.1	7,157.8	12,390.5	-4,533.3	-38.8%	699.4	5.6%
Energy Efficiency and Renewable Energy	2,379.0	343.0	2,651.7	-2,036.0	-85.6%	272.7	11.5%
Electricity Delivery	156.0	182.5	200.0	26.5	17.0%	44.0	28.2%
Cybersecurity, Energy Security, and Emergency Response	120.0	156.5	150.0	36.5	30.4%	30.0	25.0%
Fossil Energy R&D	740.0	562.0	740.0	-178.0	-24.1%	0.0	0.0%
Nuclear Energy	1,326.1	824.0	1,317.8	-502.1	-37.9%	-8.3	-0.6%
ARPA-E	366.0	-287.0	425.0	-653.0	-178.4%	59.0	16.1%
Loan Programs	19.0	-169.2	36.0	-188.2	-990.3%	17.0	89.5%
Office of Science	6,585.0	5,546.0	6,870.0	-1,039.0	-15.8%	285.0	4.3%
Department of Energy Advanced Energy Programs	5,106.1	1,611.8	5,520.5	-3,494.2	-68.4%	-9,014.8	-163.3%

Intention         Facted         Report         Amount         Percent         Jacksta         Jacksta <thjacksta< th=""> <thjacksta< th=""> <thja< th=""><th></th><th>FY 2019</th><th>FY 2020</th><th>H-FY 2020</th><th>FY20R - 1</th><th>FY19E</th><th>HFY20</th><th>- FY19E</th></thja<></thjacksta<></thjacksta<>		FY 2019	FY 2020	H-FY 2020	FY20R - 1	FY19E	HFY20	- FY19E
Department of Energy Science and Energy         12,90,1         7,127,0         12,90,5         -4,53,3         38,8%         09,94         5,6%           Energy Efficiency and Renewable Energy         2,70,0         343,0         2,661,7         -2,056,0         35,5%         27,7         10,3%           Sustainable Transportation         0,000         15,74         7,700         -52,56         -7,75%         2,6,0         16,86,0         42,3%         30,00         11,3%           Witter functional and Fail Call Inclundagies         120,0         44,0         144,60         -27,06         -7,5%         2,6,0         16,85,0         45,86,0         42,3%         30,00         11,3%         Mark Strain and Str	(in millions)	Enacted	Request	Report	Amount	Percent	Amount	Percent
Derrys Tiffciency and Renewable Energy         237.0         343.0         2.651.7         -2.05.0         355.5%         272.7         10.3%           Suntiable Transportation         690.0         157.4         770.0         -532.6         77.2%         80.0         11.6%           Weick T-Reconsigns         226.0         40.0         236.0         -186.0         42.3%         30.0         13.3%           Reconstruction and the Cd 11 Intentioning         200.0         40.0         144.0         -16.0         42.3%         30.0         13.3%           Reconstruction and the Cd 11 Intentioning         200.0         40.0         12.00         43.0         12.00         43.0         12.00         43.0         12.00         43.0         12.00         10.0%         12.7%         72.2%         60.0         71.3%         12.7%         72.2%         60.0         13.3%         10.0%         45.0         12.00         45.0         12.00         45.0         12.0         60.0         71.3%         12.7%         12.7%         12.7%         12.7%         12.7%         12.7%         12.7%         12.7%         12.7%         12.7%         12.7%         12.7%         12.7%         12.7%         12.7%         12.7%         12.7%         12.	Department of Energy Science and Energy	11,696.1	7,157.8	12,390.5	-4,538.3	-38.8%	699.4	5.6%
Energy Efficiency and Renewable Energy         2,379.0         343.0         2,681.7         -2,036.0         372.6         -77.2%         80.0         11.6%           Sustainable Transportation         690.0         157.4         370.0         -522.6         -77.2%         80.0         7.6%           Network technologies         226.0         440.0         146.0         -82.3%         50.0         13.3%           Britoward technologies         120.0         44.0         144.0         -76.0         -82.3%         50.0         12.3%           Solar Energy         2265.0         163.0         -27.0%         32.3         9.5%           Wand Lengy         226.0         125.0         -126.0         -27.1%         12.0         9.5%           Manage Manufacturing         220.0         85.0         90.0         -56.0         -27.4%         40.0         12.5%           Abanced Manufacturing         220.0         85.0         300.0         -22.97.2         -33.5%         110.5%         -40.0         13.3%           Manufacturing         220.0         75.3         22.00         22.57.0         -10.0.0%         10.53.1         44.0         11.5%         -16.0.3%         14.4%         13.5%         10.0								
Sustainable Transportation         690.0         157.4         77.0         532.6         77.2%         80.0         11.6%           Webick Technologies         226.0         40.0         256.0         -18.60         -27.8         30.0         1.3%           Biomerry technologies         226.0         40.0         256.0         -18.60         -61.3%         30.0         1.3%           Renevable Energy         527.5         165.7         58.87         -36.3.8         -64.0%         61.2         11.6%           Solar Energy         92.0         22.1         105.7         -68.3         -71.2%         22.5         9.5         -72.5%         22.5         9.5%         -71.5%         72.6%         22.5         9.5%         -72.5%         20.0         7.1%         22.7%         22.50         9.7%         20.0         7.1%         20.0         7.1%         20.0         7.1%         20.0         7.1%         20.0         7.1%         20.0         7.1%         20.0         7.1%         20.0         7.2%         20.0         7.1%         20.0         7.5%         20.0         7.5%         20.0         7.5%         20.0         7.6%         20.0         7.5%         20.0         7.5%         20.0	Energy Efficiency and Renewable Energy	2,379.0	343.0	2,651.7	-2,036.0	-85.6%	272.7	10.3%
Weiker Technologies         344.0         73.4         3700         -270.6         78.7%         26.0         7.6%           Biomerry technologies         120.0         44.0         144.0         -76.0         -82.3%         30.0         13.3%           Hydrogen and Fuel Cell Technologies         120.0         44.0         144.0         -76.0         -82.3%         30.0         12.3%           Salar Energy         226.5         67.0         270.0         -179.5         -72.8%         22.5         9.5%           Wird Energ         92.0         23.7         103.7         -66.3         -74.2%         11.7         12.7%           Ware Power         105.0         45.0         125.0         -66.0         -67.7%         6.0         -71%           Geothermal Technologies         84.0         28.0         96.00         -50.0         -66.7%         6.0         -71%           Lengry indiagenet program         20.0         87.0         24.60         -110.0%         40.0         12.5%           Building Technologies         22.16         57.0         24.0         -16.7         24.45         16.0         41.45%           Copports synaps         23.10         0.0         -33.0         0.0 <td>Sustainable Transportation</td> <td>690.0</td> <td>157.4</td> <td>770.0</td> <td>-532.6</td> <td>-77.2%</td> <td>80.0</td> <td>11.6%</td>	Sustainable Transportation	690.0	157.4	770.0	-532.6	-77.2%	80.0	11.6%
Biomergy technologies         226.0         44.00         256.0         -186.0         -82.3%         30.0         13.3%           Hydrogen and Paul Cell Technologies         1200         44.0         144.0         -7.00         -63.3%         24.0         200%           Solar Energy         226.5         67.0         27.5%         17.2%         -72.8%         23.5         9.5%           Wate Power         02.0         23.7         103.7         -68.3         -72.8%         20.0         71.5%         22.5         11.7         12.7%           Wate Power         02.0         23.7         103.7         -68.3         60.0         -71.5%         20.0         117.5         11.7         12.7%           Advaced Mandicaturing         30.0         80.3         30.0         23.5         -74.2%         11.7         12.7%           Advaced Mandicaturing         30.0         80.3         30.0         23.5         -72.0%         10.0         13.5%           Advalerization mat program         23.70         0.0         -33.30         0.0         -33.30         10.0         25.7%         14.4%           Rescission         0.0         -33.30         0.0         -33.30         10.0         25.9%	Vehicle Technologies	344.0	73.4	370.0	-270.6	-78.7%	26.0	7.6%
Hydrogen and Facl Cell Technologies         120.0         44.0         140.0         -76.0         -63.3%         24.0         20.0%           Renewable largery         527.5         163.7         588.7         -36.5.8         -60.0%         61.2         11.0%           Wind Energy         920         23.7         103.7         -68.3         -74.2%         11.7         12.7%           Wate Power         105.0         45.0         125.0         -60.0         -57.1%         20.0         19.0%           Genhermal Technologies         884.0         145.9         100.05         -74.21         -83.6%         117.5         13.2%           Advanced Manufacturing         320.0         80.5         360.0         -21.6         -72.0%         4.0         13.3%           Period intergovernmental Program         220.0         73.3         220.0         -74.3%         140.0         51.4           Corporate support         273.3         230.0         0.0         -33.3         -16.5%         14.4%         51.4         20.9%         20.0         20.7%         44.0         51.4         20.9%         20.0         20.0         20.0         20.0         40.0         20.9%         20.0         20.0         20.0 <td>Bioenergy technologies</td> <td>226.0</td> <td>40.0</td> <td>256.0</td> <td>-186.0</td> <td>-82.3%</td> <td>30.0</td> <td>13.3%</td>	Bioenergy technologies	226.0	40.0	256.0	-186.0	-82.3%	30.0	13.3%
Renewable Energy         327.5         163.7         588.7         -363.8         -60.9%         61.2         11.4%           Solar Energy         326.5         67.0         270.0         179.5         -72.8%         12.5         2.5.7         10.3.7         -68.3         -74.2%         11.7         12.7%           Water Power         105.0         45.0         125.0         -60.0         57.1%         20.0         19.0%           Gendermal Technologies         88.0         18.5         100.5         -74.21         83.6%         117.5         12.3%           Building Technologies         226.0         57.0         24.80         -74.21         83.6%         117.5         12.3%           Building Technologies         226.0         57.0         24.80         -74.21         83.6%         117.5         14.4%           Coporate support         273.5         229.0         28.7.5         -44.5         16.0         13.3%           WeatherZation and htergoremmetal Program         273.5         220.0         26.5         17.0%         44.0         22.0%           Rescission         0.0         -353.0         0.0         70.5         54.4         31.5         30.5         16.0         34.8%	Hydrogen and Fuel Cell Technologies	120.0	44.0	144.0	-76.0	-63.3%	24.0	20.0%
Solar Energy         246.5         67.0         270.0         -172.8%         23.5         9.5%           Wind Energy         92.0         23.7         103.7         -68.3         -74.2%         11.7         12.7%           Water Power         105.0         45.0         125.0         -60.0         -56.0         -56.7%         6.0         7.1%           Geothermal Technologies         88.0         145.9         100.55         -742.1%         43.0%         11.7.5         13.2%           Advanced Manufecturing         320.0         80.5         360.0         -74.8%         420.0         12.5%           Building Technologies         226.0         57.0         248.0         -16.0         -72.0%         40.0         12.5%           Building Technologies         227.0         0.0         363.5         -257.0         -100.0%         100.5         41.4%           Corporate support         273.5         229.0         275.5         44.5         -16.3%         14.0         22.0%           Transmision Reliability and Resiltence         39.0         70.5         54.4         31.5         80.8%         10.0         25.0         5.4%         10.0         20.5         5.4%         10.0         20.5% </td <td>Renewable Energy</td> <td>527.5</td> <td>163.7</td> <td>588.7</td> <td>-363.8</td> <td>-69.0%</td> <td>61.2</td> <td>11.6%</td>	Renewable Energy	527.5	163.7	588.7	-363.8	-69.0%	61.2	11.6%
Wind Energy         92.0         23.7         103.7         -08.3         -74.2%         11.7         12.7%           Water Power         105.0         45.0         125.0         -60.0         57.1%         20.0         19.0%           Gendermal Technologies         88.0         28.0         90.0         -56.0         -57.1%         6.0         7.1%           Backing Technologies         230.0         80.5         300.0         -74.21         -83.6%         11.7.5         12.3%           Buiking Technologies         226.0         57.0         24.80         -74.24         -83.6%         12.5%           Buiking Technologies         226.0         57.0         24.80         -72.0%         4.0         13.3%           WeatherStand and Intergormmental Program         273.5         229.0         28.7.5         -44.5         16.3%         14.0         5.1%           Rescission         0.0         -353.0         0.0         -25.5         44.6         22.0%           Transmition Reliability and Resiltence         39.0         70.5         54.4         31.5         30.8%         10.0         25.0%           Energy Efficiency         150.0         21.0         28.6%         0.0         0.0%	Solar Energy	246.5	67.0	270.0	-179.5	-72.8%	23.5	9.5%
Water Power         105.0         45.0         125.0         -6.0         -57.1%         20.0         19.0%           Geothermal Technologies         84.0         28.0         90.0         -55.0         -6.7%         6.0         7.1%           Energy Efficiency         828.0         145.9         1,005.5         -742.1         -83.6%         117.5         13.2%           Building Technologies         226.0         57.0         248.0         -169.0         -74.8%         420.0         12.5%           Building Technologies         226.0         57.0         248.0         -169.0         -74.8%         40.0         13.3%           Weatherization and Intergorenmental Program         20.0         363.5         -257.0         -100.0%         106.5         41.4%           Corporate support         273.5         220.0         26.5         17.0%         44.0         22.0%           Transmition Reliability and Resiltence         390.7         70.5         54.4         31.5         88.5%         16.0         34.8%           Transforms resiltence and advanced components         7.0         7.0         0.0         0.0%         0.0         0.0%           Transforms resiltence and advanced components         7.0         7.0 <td>Wind Energy</td> <td>92.0</td> <td>23.7</td> <td>103.7</td> <td>-68.3</td> <td>-74.2%</td> <td>11.7</td> <td>12.7%</td>	Wind Energy	92.0	23.7	103.7	-68.3	-74.2%	11.7	12.7%
Gendermal Technologies         84.0         28.0         90.0         -5.60         -66.7%         6.0         7.1%           Ibersy Efficiency         88.0         145.9         1005.5         -742.1         -83.6%         117.5         13.2%           Advanced Manufacturing         320.0         80.5         360.0         -229.5         -74.8%         40.0         112.5%           Building Technologies         226.0         57.0         248.0         -169.0         -74.8%         40.0         13.3%           Weatherization and Intergovernmental Program         273.5         229.0         287.5         44.5         -16.3%         14.0         5.1%           Rescission         0.0         -353.0         0.0         -353.0         10.0         r/10.0%         100.1           Rescission         0.0         -753.5         44.4         31.6         80.8%         14.0         5.1%           Resident Residence         30.0         70.5         5.4.4         31.5         80.8%         15.4         39.5%           Braismission Permitting and Technical Assistance         7.0         9.0         7.0         2.0         2.6         15.3%         2.6         15.3%           Transmission Permitting and Tech	Water Power	105.0	45.0	125.0	-60.0	-57.1%	20.0	19.0%
Energy Efficiency         888.0         145.9         1,005.5         -74.21         -83.6%         117.5         13.2%           Building Technologies         226.0         57.0         228.0         -169.0         -74.8%         420.0         12.5%           Building Technologies         226.0         57.0         228.0         -169.0         -74.8%         420.0         13.3%           Weatherization and Intergovernmental Program         257.0         0.0         363.5         -257.0         -100.0%         106.5         41.4%           Corporate support         273.5         229.0         287.5         -44.5         -16.3%         140.0         5.1%           Ressission         0.0         -353.0         0.0         -255.0         PDIV/0         0.0         PDIV/0           Electricity         156.0         182.5         200.0         26.5         17.9%         44.0         22.9%           Transmission Permiting and Resilience         39.0         70.5         54.4         13.1.5         80.5%         15.4         39.5%           Energy Storage         46.0         48.5         62.0         2.5         5.4%         16.0         34.8%           Transmission Permiting and Technical Assistance	Geothermal Technologies	84.0	28.0	90.0	-56.0	-66.7%	6.0	7.1%
Advanced Manufacturing         320.0         80.5         360.00         -73.95         -74.8%         40.0         12.5%           Building Technologies         226.0         57.0         248.0         -169.0         -74.8%         40.0         13.3%           Weatherization and Intergovernmental Program         270.0         0.0         363.5         -257.0         100.0%         106.5         41.4%           Corporate support         273.5         229.0         287.5         -44.5         -16.3%         14.0         5.1%           Rescission         0.0         -353.0         0.0         733.0         PDIV01         0.0         MDIV01           Electricity         156.0         182.5         200.0         26.5         17.9%         44.0         22.0%           Transmition Reliability and Resilience         30.0         70.5         54.4         31.5         80.8%         15.4         39.5%           Transmition Parimeting and Technical Assistance         7.0         7.0         2.0         2.8.6%         0.0         0.0%           Transmition Parimeting and Technical Assistance         7.0         7.0         7.0         0.0         0.0%         10.7         10.8         10.4.7%         2.6         15.3% <td>Energy Efficiency</td> <td>888.0</td> <td>145.9</td> <td>1,005.5</td> <td>-742.1</td> <td>-83.6%</td> <td>117.5</td> <td>13.2%</td>	Energy Efficiency	888.0	145.9	1,005.5	-742.1	-83.6%	117.5	13.2%
Building Technologies         226.0         57.0         248.0         -1.09.0         -7.4.8%         22.0         9.7%           Redoration and Intergovernmental Program         257.0         0.0         363.5         -227.0         -100.0%         106.5         41.4%           Corporate support         273.5         220.0         287.5         -44.5         -103.%         14.0         5.1%           Rescission         0.0         -353.0         0.0         -353.0         4DIV01         0.0         4DIV01           Rescission         0.0         -353.0         0.0         -25.5         44.5         15.4         39.5%           Resilient Distribution Systems         40.0         27.9         50.0         -12.1         -30.3%         10.0         22.0%           Transmission Permiting and Technical Assistance         7.0         7.0         7.0         0.0         0.0%         0.0         0.0%         0.0%         0.0         0.0%         10.0         20.0%         22.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%	Advanced Manufacturing	320.0	80.5	360.0	-239.5	-74.8%	40.0	12.5%
Federal energy management program         30.0         8.4         34.0         -72.0%         4.0         13.3%           Weatherization and Intergovernmental Program         273.5         229.0         287.5         -44.5         -16.3%         14.4%           Corporate support         273.5         229.0         287.5         -44.5         -16.3%         14.0         5.1%           Rescission         0.0         -353.0         0.0         -353.0         0.0         0.0         450.0         0.0         44.5         16.3%         14.4%         5.1%           Rescission         100.0         400.0         25.5         54.4         31.5         80.8%         15.4         39.5%           Program forming         440.0         27.9         50.0         -2.1         -30.3%         10.0         25.0%           Program forming         440.0         44.8         62.0         2.5         5.4%         16.0         34.8%           Transformer resilicate and advanced components         7.0         7.0         7.0         0.0         0.0%         0.0%         0.0%           Program direction (OE)         17.0         19.6         19.6         2.6         15.3%         2.6         15.3%	Building Technologies	226.0	57.0	248.0	-169.0	-74.8%	22.0	9.7%
Weatherization and Intergovernmental Program         257.0         0.0         363.5         -257.0         -100.0%         106.5         41.4%           Coroporta support         273.5         229.0         287.5         -44.5         -16.3%         14.0         5.1%           Rescission         0.0         -353.0         0.0         253.0         #DIV/0!         0.0         #DIV/0!           Electricity         156.0         182.5         200.0         2.6.5         17.0%         44.0         22.9%           Transmition Reliability and Resilience         39.0         70.5         54.4         31.5         80.8%         15.4         39.5%           Energy storage         46.0         48.5         62.0         -2.5         5.4%         16.0         34.8%           Transmission Permitting and Technical Assistance         7.0         7.0         7.0         0.0         0.0%         0.0         0.0%           Program direction (OE)         17.0         19.6         19.6         2.6         15.3%         2.0         121.1%           Cybersecurity and Energy Restoration         19.0         70.0         42.0         51.0         26.84%         22.0         121.1%           Cybersecurity for energy delivery s	Federal energy management program	30.0	8.4	34.0	-21.6	-72.0%	4.0	13.3%
Corporate support         273.5         229.0         287.5         -44.5         -16.3%         14.0         5.1%           Rescission         0.0         -353.0         0.0         -353.0         0.0         -353.0         0.0         -353.0         0.0         -101.0         0.0         PDIV/01         0.0         PDIV/01         0.0         PDIV/01         0.0         -121.1         -30.3%         10.0         22.6%         10.0         22.6%         10.0         22.6%         10.0         22.6%         10.0         22.6%         10.0         22.6%         10.0         22.6%         10.0         22.6%         0.0         0.0%         34.8%         15.4         39.5%         11.5%         10.0         22.6%         0.0         0.0%         0.0         0.0%         11.5%         11.0         10.0         10.0         10.0         0.0         0.0%         0.0         0.0%         11.5         11.5%         11.5 <t< td=""><td>Weatherization and Intergovernmental Program</td><td>257.0</td><td>0.0</td><td>363.5</td><td>-257.0</td><td>-100.0%</td><td>106.5</td><td>41.4%</td></t<>	Weatherization and Intergovernmental Program	257.0	0.0	363.5	-257.0	-100.0%	106.5	41.4%
Rescission         0.0         -353.0         0.00         -353.0         #DIV/01         0.0         #DIV/01           Electricity         1560         182.5         200.0         -353.0         #DIV/01         44.0         22.0%           Transmittion Reliability and Resilience         39.0         70.5         54.4         31.5         80.8%         15.4         39.5%           Resilient Distribution Systems         40.0         27.9         50.0         -12.1         -30.3%         10.0         25.0%           Energy storage         46.0         48.8         62.0         2.5         5.4%         16.0         34.8%           Transmission Permitting and Technical Assistance         7.0         7.0         7.0         0.0         0.0%         0.0         0.0%           Program direction (OE)         17.0         19.6         2.6         15.3%         2.6         15.3%         2.6         15.3%           Cyber security and Energy Response         120.0         156.5         150.0         36.5         30.4%         30.0         20.0%           Cyber security for energy delivery systems         89.5         75.0         95.0         -14.5         -16.2%         5.5         6.1%           Porgram	Corporate support	273.5	229.0	287.5	-44.5	-16.3%	14.0	5.1%
Electricity         156.0         182.5         200.0         26.5         17.0%         44.0         22.0%           Transmition Reliability and Resilience         39.0         70.5         54.4         31.5         80.8%         15.4         39.5%           Resilient Distribution Systems         40.0         27.9         50.0         -12.1         -30.3%         10.0         25.0%           Energy storage         46.0         48.5         62.0         2.5         5.4%         16.0         34.8%           Transformer resilience and advanced components         7.0         9.0         7.0         0.0         0.0%         0.0%         0.0%         0.0         0.0%           Program direction (OE)         17.0         19.6         19.6         2.6         15.3%         2.6         15.3%           Cybersecurity, Energy Security, and Emergency Response         120.0         156.5         150.0         36.5         30.4%         30.0         20.0%           Infrastructure Security and Energy Restoration         19.0         70.0         42.0         51.0         268.4%         23.0         121.1%           Cyber security Energy Restoration         19.0         70.0         42.0         51.0         268.4%         23.0	Rescission	0.0	-353.0	0.0	-353.0	#DIV/0!	0.0	#DIV/0!
Electricity         156.0         182.5         200.0         26.5         17.9%         44.0         22.0%           Transmition Reliability and Besilience         39.0         70.5         54.4         31.5         80.8%         15.4         39.9%           Resilient Distribution Systems         40.0         27.9         50.0         -12.1         -30.3%         10.0         25.0%           Energy storage         46.0         48.5         62.0         2.5         5.4%         16.0         34.8%           Transformer resilience and advanced components         7.0         9.0         7.0         2.0         28.6%         0.0         0.0%           Transmission Permitting and Technical Assistance         7.0         7.0         7.0         0.0         0.0%         0.0         0.0%           Program direction (OE)         17.0         19.6         19.6         2.6         15.3%         2.6         15.3%           Cybersecurity and Energy Response         120.0         156.5         150.0         36.5         30.4%         23.0         121.1%           Cybersecurity or energy delivery systems         189.5         75.0         95.0         -14.2         -16.2%         5.5         6.1%           Progran dir								
Transmition Reliability and Resilience         39.0         70.5         54.4         31.5         80.8%         15.4         39.5%           Resilient Distribution Systems         40.0         27.9         50.0         -1.21.         -3.03%         10.0         22.50%           Energy storage         46.0         48.5         62.0         2.5         5.4%         16.0         34.8%           Transformer resilience and advanced components         7.0         9.0         7.0         2.0         28.6%         0.0         0.0%           Transformer resilience and advanced components         7.0         9.0         7.0         0.0         0.0%         0.0         0.0%           Transformer resilience and advanced components         7.0         7.0         7.0         0.0         0.0%         0.0         0.0%           Transformer resilience and advanced components         7.0         7.0         10.0         0.0%         0.0         0.0%         1.5         13.2%           Transformer resilience and advanced components         7.0         7.0         42.0         51.0         2.6         15.3%         2.0         10.0%         15.5         15.0         16.2%         5.5         6.1%         7.0         2.0         1.0	Electricity	156.0	182.5	200.0	26.5	17.0%	44.0	22.0%
Resilient Distribution Systems         40.0         27.9         50.0         -12.1         -30.3%         10.0         25.0%           Energy storage         46.0         48.5         62.0         2.5         5.4%         16.0         34.8%           Transformer resilience and advanced components         7.0         9.0         7.0         2.0         28.6%         0.0         0.0%           Program direction (OE)         17.0         7.0         7.0         0.0         0.0%         0.0         0.0%           Program direction (OE)         17.0         19.6         19.6         2.6         15.3%         2.6         15.3%           Cybersecurity, and Emergency Response         120.0         156.5         150.0         36.5         30.4%         30.0         20.0%           Infrastructure Security for energy delivery systems         89.5         75.0         95.0         -14.5         -16.2%         5.5         6.1%           Program direction         11.5         11.5         13.0         0.0         0.0%         1.5         13.0%           Code Lencry Systems and CCUS         4862.2         387.4         504.3         -98.8         -20.3%         18.0         3.7%           Carbon Capture, Utilization,	Transmition Reliability and Resilience	39.0	70.5	54.4	31.5	80.8%	15.4	39.5%
Energy storage         46.0         48.5         62.0         2.5         5.4%         16.0         34.8%           Transformer resilience and advanced components         7.0         9.0         7.0         2.0         2.8.6%         0.0         0.0%           Transformer resilience and advanced components         7.0         7.0         7.0         0.0         0.0.0%         0.0         0.0%           Program direction (OE)         17.0         19.6         19.6         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.3%         2.6         15.0         2.6         1.6         1.5         15.0         2.6         1.6         2.6         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5	Resilient Distribution Systems	40.0	27.9	50.0	-12.1	-30.3%	10.0	25.0%
Transformer resilience and advanced components         7.0         9.0         7.0         2.0         28.6%         0.0         0.0%           Transmission Permitting and Technical Assistance         7.0         7.0         7.0         0.0         0.0         0.0%         0.0         0.0%         0.00%	Energy storage	46.0	48.5	62.0	2.5	5.4%	16.0	34.8%
Transmission Permitting and Technical Assistance         7.0         7.0         7.0         0.0         0.0%         0.0         0.0%           Program direction (OE)         17.0         19.6         19.6         2.6         15.3%         2.6         15.3%           Cybersecurity, Energy Security, and Energency Response         120.0         156.5         150.0         36.5         30.4%         30.0         20.0%           Infrastructure Security and Energy Restonation         19.0         70.0         42.0         51.0         268.4%         23.0         121.1%           Cyber security for energy delivery systems         89.5         75.0         95.0         -14.5         -16.2%         5.5         6.1%           Program direction         11.5         11.5         13.0         0.0         0.0%         1.5         13.0%           Fosil Energy R&D         700.0         52.0         740.0         -178.0         24.1%         0.0         0.0%           Advanced Cal Energy Systems and CCUS         486.2         387.4         504.3         -98.8         -20.3%         18.0         3.7%           Carbon Capture, Utilization, and Storage         198.8         66.8         227.0         -130.0         -65.4%         28.2         14.	Transformer resilience and advanced components	7.0	9.0	7.0	2.0	28.6%	0.0	0.0%
Program direction (OE)         17.0         19.6         19.6         2.6         15.3%         2.6         15.3%           Cybersecurity, Energy Security, and Emergency Response         120.0         156.5         150.0         36.5         30.4%         30.0         20.0%           Infrastructure Security and Emergy Restoration         19.0         70.0         42.0         51.0         268.4%         23.0         121.1%           Cyber security for energy delivery systems         89.5         75.0         95.0         -14.5         -16.2%         5.5         6.1%           Program direction         11.5         11.5         11.0         0.0         0.0%         1.5         13.0%           Advanced Coal Energy R&D         740.0         562.0         740.0         -178.0         -24.1%         0.0         0.0%           Advanced Coal Energy Systems and CCUS         486.2         387.4         504.3         -98.8         -20.3%         18.0         3.7%           Carbon Capture, Utilization, and Storage         198.8         68.8         227.0         -130.0         -65.4%         28.2         14.2%           Transformational Coal Pilo         25.0         0.0         24.0         -22.0         -10.0%         -5.0         -20.0%	Transmission Permitting and Technical Assistance	7.0	7.0	7.0	0.0	0.0%	0.0	0.0%
Cybersecurity, Energy Security, and Emergency Response         120.0         156.5         150.0         36.5         30.4%         30.0         20.0%           Infrastructure Security and Energy Restoration         19.0         70.0         42.0         51.0         268.4%         23.0         121.1%           Cyber security for energy delivery systems         89.5         75.0         95.0         -14.5         -16.2%         5.5         6.1%           Program direction         11.5         11.5         13.0         0.0         0.0%         1.5         13.0%           Fossil Energy R&D         740.0         562.0         740.0         -178.0         24.1%         0.0         0.0%           Advanced Coal Energy Systems and CCUS         486.2         387.4         504.3         -98.8         -20.3%         18.0         3.7%           Carbon Capture, Utilization, and Storage         198.8         68.8         227.0         -130.0         -65.4%         22.2         14.2%           Advanced Energy Systems         129.7         185.3         107.0         55.6         42.9%         -22.7         -17.5%           Cross Cutting Research and Analysis         56.4         72.8         88.3         16.5         29.2%         31.9 <t< td=""><td>Program direction (OE)</td><td>17.0</td><td>19.6</td><td>19.6</td><td>2.6</td><td>15.3%</td><td>2.6</td><td>15.3%</td></t<>	Program direction (OE)	17.0	19.6	19.6	2.6	15.3%	2.6	15.3%
Cybersecurity, Energy Security, and Emergency Response         120.0         156.5         150.0         36.5         30.4%         30.0         20.0%           Infrastructure Security and Energy Restoration         19.0         70.0         42.0         51.0         268.4%         23.0         121.1%           Cyber security for energy delivery systems         89.5         75.0         95.0         -14.5         -16.2%         5.5         6.1%           Program direction         11.5         11.5         13.0         0.0         0.0%         1.5         13.0%           Fossi Energy R&D         740.0         562.0         740.0         -178.0         -24.1%         0.0         0.0%           Advanced Coal Energy Systems and CCUS         486.2         387.4         504.3         -98.8         20.3%         18.0         3.7%           Carbon Capture, Utilization, and Storage         198.8         68.8         227.0         -130.0         -65.4%         28.2         14.2%           Transformational Coal Plot         25.0         0.0         20.0         -20.0         -20.0%         -22.7         -17.5%           Cross Cutting Research and Analysis         56.4         72.8         88.3         16.5         12.0%         -16.0         <								
Cyber Security, Energy Security, and Energy Restoration         120.0         130.0         30.3         30.7%         20.0%           Infrastructure Security and Energy Restoration         19.0         70.0         42.0         51.0         268.4%         23.0         121.1%           Cyber security for energy delivery systems         89.5         75.0         95.0         -14.5         -16.2%         5.5         6.1%           Program direction         11.5         11.5         11.5         13.0         0.0         0.0%         1.5         13.0%           Fossil Energy R&D         740.0         562.0         740.0         -178.0         -24.1%         0.0         0.0%           Advanced Coal Energy Systems and CCUS         486.2         387.4         504.3         -98.8         -20.3%         18.0         3.7%           Carbon Capture, Utilization, and Storage         198.8         68.8         227.0         -130.0         -55.4         -20.0%           Advanced Energy Systems         129.7         185.3         107.0         55.6         42.9%         -22.7         -17.5%           Cross Curing Research and Analysis         56.4         72.8         88.3         16.5         29.2%         31.9         56.6%	Cyborsoouvity Energy Security and Emergency Despense	120.0	156.5	150.0	36.5	30.494	30.0	20.09/
Infrastructure Security and Energy Restoration         19.0         70.0         42.0         51.0         268.4%         23.0         121.1%           Cyber security for energy delivery systems         89.5         75.0         95.0         -14.5         -16.2%         5.5         6.1%           Program direction         11.5         11.30         0.0         0.0%         1.5         13.0%           Fossil Energy R&D         740.0         562.0         740.0         -178.0         -24.1%         0.0         0.0%           Advanced Coal Energy Systems and CCUS         486.2         387.4         504.3         -98.8         -20.3%         18.0         3.7%           Carbon Capture, Utilization, and Storage         198.8         68.8         227.0         -130.0         -55.4%         28.2         14.2%           Transformational Coal Pilot         25.0         0.0         20.0         -25.0         -100.0%         -5.0         -20.0%           Advanced Energy Systems         129.7         185.3         107.0         55.6         42.9%         22.7         -17.5%           Cross Cutting Research and Analysis         56.4         72.8         88.3         16.5         29.2%         31.9         56.6%           NETL	Cybersecurity, Energy Security, and Emergency Response	120.0	130.5	130.0	50.5	30.4 /0	50.0	20.078
Cyber security for energy delivery systems         89.5         75.0         95.0         -14.5         -16.2%         5.5         6.1%           Program direction         11.5         11.5         13.0         0.0         0.0%         1.5         13.0%           Fossit Energy R&D         740.0         562.0         740.0         -178.0         -24.1%         0.0         0.0%           Advanced Coal Energy Systems and CCUS         486.2         387.4         504.3         -98.8         -20.3%         18.0         3.7%           Carbon Capture, Utilization, and Storage         198.8         68.8         227.0         -130.0         -65.4%         28.2         14.2%           Transformational Coal Pilot         25.0         0.0         20.0         -25.0         -100.0%         -5.0         -20.0%           Advanced Energy Systems         129.7         185.3         107.0         55.6         42.9%         -22.7         -17.5%           Cross Cutting Research and Analysis         56.4         72.8         88.3         16.5         12.0%         -16.0         -29.6%           STEP         22.4         0.0         24.0         -22.4         -100.0%         1.6         7.0%           NETL Infrastructure	Infrastructure Security and Energy Restoration	19.0	70.0	42.0	51.0	268.4%	23.0	121.1%
Program direction         11.5         11.5         13.0         0.0         0.0%         1.5         13.0%           Fossil Energy R&D         740.0         562.0         740.0         -178.0         -24.1%         0.0         0.0%           Advanced Coal Energy Systems and CCUS         486.2         387.4         504.3         -98.8         -20.3%         18.0         3.7%           Carbon Capture, Utilization, and Storage         198.8         68.8         227.0         -130.0         -65.4%         28.2         14.2%           Transformational Coal Pilon         25.0         0.0         20.0         -25.0         -100.0%         -5.0         -20.0%           Advanced Energy Systems         129.7         185.3         107.0         55.6         42.9%         -22.7         -17.5%           Cross Cutting Research and Analysis         56.4         72.8         88.3         16.5         29.2%         31.9         56.6%           NETL Coal R&D         54.0         60.5         38.0         6.5         12.0%         -16.0         -29.6%           STEP         22.4         0.0         24.0         -22.7         -56.9%         Unconventional Fossil Energy Technologies         50.0         40.0         50.0	Cyber security for energy delivery systems	89.5	75.0	95.0	-14.5	-16.2%	5.5	6.1%
Fossil Energy R&D         740.0         562.0         740.0	Program direction	11.5	11.5	13.0	0.0	0.0%	1.5	13.0%
Fossil Energy R&D         740.0         562.0         740.0         -178.0         -24.1%         0.0         0.0%           Advanced Coal Energy Systems and CCUS         486.2         387.4         504.3         -98.8         -20.3%         18.0         3.7%           Carbon Capture, Utilization, and Storage         198.8         68.8         227.0         -130.0         -65.4%         228.2         14.2%           Transformational Coal Pilot         25.0         0.0         20.0         -25.0         -100.0%         -5.0         -20.0%           Advanced Energy Systems         129.7         185.3         107.0         55.6         42.9%         -22.7         -17.5%           Cross Cutting Research and Analysis         56.6.4         72.8         88.3         16.5         12.0%         -16.0         -29.6%           STEP         22.4         0.0         24.0         -22.4         -100.0%         1.6         7.0%           Natural Gas Technologies         51.0         10.7         48.0         -40.3         -79.0%         -3.0         -5.9%           Unconventional Fossil Energy Technologies         50.0         40.0         50.0         -10.0         -20.0%         0.0         0.0%           NETL Resea								
Advanced Coal Energy Systems and CCUS         486.2         387.4         504.3         -98.8         -20.3%         18.0         3.7%           Carbon Capture, Utilization, and Storage         198.8         68.8         227.0         -130.0         -65.4%         28.2         14.2%           Transformational Coal Pilot         25.0         0.0         20.0         -25.0         100.0%         -5.0         -20.0%           Advanced Energy Systems         129.7         185.3         107.0         55.6         42.9%         -22.7         -17.5%           Cross Cutting Research and Analysis         56.4         72.8         88.3         16.5         29.2%         31.9         56.6%           NETL Coal R&D         54.0         60.5         38.0         6.5         12.0%         -16.0         -29.6%           STEP         22.4         0.00         24.0         -22.4         -100.0%         1.6         7.9%           Natural Gas Technologies         51.0         10.7         48.0         -40.3         -79.0%         -3.0         -5.9%           Unconventional Fossil Energy Technologies         50.0         40.0         50.0         -10.0         -20.0%         0.0         0.0%           NETL Research and Oper	Fossil Energy R&D	740.0	562.0	740.0	-178.0	-24.1%	0.0	0.0%
Carbon Capture, Utilization, and Storage         198.8         68.8         227.0         -130.0         -65.4%         28.2         14.2%           Transformational Coal Pilot         25.0         0.0         20.0         -25.0         -100.0%         -5.0         -20.0%           Advanced Energy Systems         129.7         185.3         107.0         55.6         42.9%         -22.7         -17.5%           Cross Cutting Research and Analysis         56.4         72.8         88.3         16.5         29.2%         31.9         56.6%           NETL Coal R&D         54.0         60.5         38.0         6.5         12.0%         -16.0         -29.6%           STEP         22.4         0.0         24.0         -22.4         -00.0%         1.6         7.0%           Natural Gas Technologies         51.0         10.7         48.0         -40.3         -79.0%         -3.0         -5.9%           NETL Research and Operations         50.0         40.0         50.0         -10.0         -20.0%         0.0         0.0%           NETL Infrastructure         45.0         43.1         46.0         -1.9         -4.2%         1.0         2.2%           Program direction         61.1         61.	Advanced Coal Energy Systems and CCUS	486.2	387.4	504.3	-98.8	-20.3%	18.0	3.7%
Transformational Coal Pilot         25.0         0.0         20.0         -25.0         -100.0%         -5.0         -20.0%           Advanced Energy Systems         129.7         185.3         107.0         55.6         42.9%         -22.7         -17.5%           Cross Cutting Research and Analysis         56.4         72.8         88.3         16.5         29.2%         31.9         56.6%           NETL Coal R&D         54.0         60.5         38.0         6.5         12.0%         -16.0         -29.6%           STEP         22.4         0.0         24.0         -22.4         -100.0%         1.6         7.0%           Natural Gas Technologies         51.0         10.7         48.0         -40.3         -79.0%         -3.0         -5.9%           Unconventional Fossil Energy Technologies         46.0         19.0         30.0         -27.0         -58.7%         -16.0         -34.8%           NETL Research and Operations         50.0         40.0         50.0         -10.0         -20.0%         0.0         0.0%           NETL Infrastructure         45.0         43.1         46.0         -1.9         -4.2%         1.0         2.2%           Program direction         61.1         61	Carbon Capture, Utilization, and Storage	198.8	68.8	227.0	-130.0	-65.4%	28.2	14.2%
Advanced Energy Systems         129.7         185.3         107.0         55.6         42.9%         -22.7         -17.5%           Cross Cutting Research and Analysis         56.4         72.8         88.3         16.5         29.2%         31.9         56.6%           NETL Coal R&D         54.0         60.5         38.0         6.5         12.0%         -16.0         -29.6%           NETL Coal R&D         22.4         0.0         24.0         -22.4         -100.0%         1.6         7.7%           Natural Gas Technologies         51.0         10.7         48.0         -40.3         -79.0%         -3.0         -5.9%           Unconventional Fossil Energy Technologies         46.0         19.0         30.0         -27.0         -58.7%         -16.0         -34.8%           NETL Infrastructure         45.0         43.1         46.0         -1.9         -4.2%         1.0         2.2%           Program direction         61.1         61.0         61.0         0.0         0.0%         0.0         0.0%           Special recruitment programs         0.7         0.7         0.7         0.0         0.0%         0.0         0.0%           STEP R&D         5.0         0.0         5.0 <td>Transformational Coal Pilot</td> <td>25.0</td> <td>0.0</td> <td>20.0</td> <td>-25.0</td> <td>-100.0%</td> <td>-5.0</td> <td>-20.0%</td>	Transformational Coal Pilot	25.0	0.0	20.0	-25.0	-100.0%	-5.0	-20.0%
Cross Cutting Research and Analysis         56.4         72.8         88.3         16.5         29.2%         31.9         56.6%           NETL Coal R&D         54.0         60.5         38.0         6.5         12.0%         -16.0         -29.6%           STEP         22.4         0.0         24.0         -22.4         -100.0%         1.6         7.0%           Natural Gas Technologies         51.0         10.7         48.0         -40.3         -79.0%         -3.0         -5.9%           Unconventional Fossil Energy Technologies         46.0         19.0         30.0         -27.0         -58.7%         -16.0         -34.8%           NETL Research and Operations         50.0         40.0         50.0         -10.0         -20.0%         0.0         0.0%           NETL Infrastructure         45.0         43.1         46.0         -1.9         -4.2%         1.0         2.2%           Program direction         61.1         61.0         0.0         0.0%         0.0         0.0%           Special recruitment programs         0.7         0.7         0.7         0.0         0.0%         0.0         0.0%           Nuclear Energy         1,326.1         824.0         1,317.8	Advanced Energy Systems	129.7	185.3	107.0	55.6	42.9%	-22.7	-17.5%
NETL Coal R&D         54.0         60.5         38.0         6.5         12.0%         -16.0         -29.6%           STEP         22.4         0.0         24.0         -22.4         -100.0%         1.6         7.0%           Natural Gas Technologies         51.0         10.7         48.0         -40.3         -79.0%         -3.0         -5.9%           Unconventional Fossil Energy Technologies         46.0         19.0         30.0         -27.0         -58.7%         -16.0         -34.8%           NETL Research and Operations         50.0         40.0         50.0         -10.0         -20.0%         0.0         0.0%           NETL Infrastructure         45.0         43.1         46.0         -1.9         -4.2%         1.0         2.2%           Program direction         61.1         61.0         61.0         0.0         0.0%         0.0         0.0%           Special recruitment programs         0.7         0.7         0.7         0.0         0.0%         0.0         0.0%           Nuclear Energy         1,326.1         824.0         1,317.8         -502.1         -37.9%         -8.3         -06.%           Integrated university program         5.0         0.0         5.0 </td <td>Cross Cutting Research and Analysis</td> <td>56.4</td> <td>72.8</td> <td>88.3</td> <td>16.5</td> <td>29.2%</td> <td>31.9</td> <td>56.6%</td>	Cross Cutting Research and Analysis	56.4	72.8	88.3	16.5	29.2%	31.9	56.6%
STEP         22.4         0.0         24.0         -22.4         -100.0%         1.6         7.0%           Natural Gas Technologies         51.0         10.7         48.0         -40.3         -79.0%         -3.0         -5.9%           Unconventional Fossil Energy Technologies         46.0         19.0         30.0         -27.0         -58.7%         -16.0         -34.8%           NETL Research and Operations         50.0         40.0         50.0         -10.0         -20.0%         0.0         0.0%           NETL Infrastructure         45.0         43.1         46.0         -1.9         -4.2%         1.0         2.2%           Program direction         61.1         61.0         61.0         0.0         0.0%         0.0         0.0%           Special recruitment programs         0.7         0.7         0.7         0.0         0.0%         0.0         0.0%           Nuclear Energy         1,326.1         824.0         1,317.8         -502.1         -37.9%         -8.3         -0.6%           Integrated university program         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           STEP R&D         5.0         0.0         5.0	NETL Coal R&D	54.0	60.5	38.0	6.5	12.0%	-16.0	-29.6%
Natural Gas Technologies         51.0         10.7         48.0         -40.3         -79.0%         -3.0         -5.9%           Unconventional Fossil Energy Technologies         46.0         19.0         30.0         -27.0         -58.7%         -16.0         -34.8%           NETL Research and Operations         50.0         40.0         50.0         -10.0         -20.0%         0.0         0.0%           NETL Infrastructure         45.0         43.1         46.0         -1.9         -4.2%         1.0         2.2%           Program direction         61.1         61.0         61.0         0.0         0.0%         0.0         0.0%           Special recruitment programs         0.7         0.7         0.7         0.0         0.0%         0.0         0.0%           Muclear Energy         1,326.1         824.0         1,317.8         -502.1         -37.9%         -8.3         -0.6%           Integrated university program         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           STEP R&D         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           Reactor concepts RD&D         323.5         215.2	STEP	22.4	0.0	24.0	-22.4	-100.0%	1.6	7.0%
Unconventional Fossil Energy Technologies         46.0         19.0         30.0         -27.0         -58.7%         -16.0         -34.8%           NETL Research and Operations         50.0         40.0         50.0         -10.0         -20.0%         0.0         0.0%           NETL Infrastructure         45.0         43.1         46.0         -1.9         -4.2%         1.0         2.2%           Program direction         61.1         61.0         61.0         0.0         0.0%         0.0         0.0%           Special recruitment programs         0.7         0.7         0.7         0.0         0.0%         0.0         0.0%           Nuclear Energy         1,326.1         824.0         1,317.8         -502.1         -37.9%         -8.3         -0.6%           Integrated university program         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           STEP R&D         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           Nuclear energy enabling technologies         152.6         98.5         125.0         -54.1         -35.5%         -27.6         -18.1%           Reactor cocepts RD&D         323.5         215.	Natural Gas Technologies	51.0	10.7	48.0	-40.3	-79.0%	-3.0	-5.9%
NETL Research and Operations         50.0         40.0         50.0         -10.0         -20.0%         0.0         0.0%           NETL Infrastructure         45.0         43.1         46.0         -1.9         -4.2%         1.0         2.2%           Program direction         61.1         61.0         61.0         0.0         0.0%         0.0         0.0%           Special recruitment programs         0.7         0.7         0.7         0.0         0.0%         0.0         0.0%           Nuclear Energy         1,326.1         824.0         1,317.8         -502.1         -37.9%         -8.3         -0.6%           Integrated university program         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           Nuclear energy enabling technologies         152.6         98.5         125.0         -54.1         -35.5%         -27.6         -18.1%           Reactor concepts RD&D         323.5         215.2         325.0         -108.4         -33.5%         1.5         0.5%           Fuel cycle research and development         263.9         90.0         318.5         -173.9         -65.9%         54.6         20.7%           International nuclear energy cooperation	Unconventional Fossil Energy Technologies	46.0	19.0	30.0	-27.0	-58.7%	-16.0	-34.8%
NETL Infrastructure         45.0         43.1         46.0         -1.9         -4.2%         1.0         2.2%           Program direction         61.1         61.0         61.0         0.0         0.0%         0.0         0.0%           Special recruitment programs         0.7         0.7         0.7         0.0         0.0%         0.0         0.0%           Nuclear Energy         1,326.1         824.0         1,317.8         -502.1         -37.9%         -8.3         -0.6%           Integrated university program         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           STEP R&D         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           Nuclear energy enabling technologies         152.6         98.5         125.0         -54.1         -35.5%         -27.6         -18.1%           Reactor concepts RD&D         323.5         215.2         325.0         -108.4         -33.5%         1.5         0.5%           Fuel cycle research and development         263.9         90.0         318.5         -173.9         -65.9%         54.6         20.7%           International nuclear energy cooperation         3.0	NETL Research and Operations	50.0	40.0	50.0	-10.0	-20.0%	0.0	0.0%
Program direction         61.1         61.0         61.0         0.0         0.0%         0.0         0.0%           Special recruitment programs         0.7         0.7         0.7         0.0         0.0%         0.0         0.0%           Nuclear Energy         1,326.1         824.0         1,317.8         -502.1         -37.9%         -8.3         -0.6%           Integrated university program         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           STEP R&D         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           Nuclear energy enabling technologies         152.6         98.5         125.0         -54.1         -35.5%         -27.6         -18.1%           Reactor concepts RD&D         323.5         215.2         325.0         -108.4         -33.5%         1.5         0.5%           Fuel cycle research and development         263.9         90.0         318.5         -173.9         -65.9%         54.6         20.7%           International nuclear energy cooperation         3.0         0.0         2.5         -3.0         -100.0%         -0.5         -16.7%           Radiological facilities management <t< td=""><td>NETL Infrastructure</td><td>45.0</td><td>43.1</td><td>46.0</td><td>-1.9</td><td>-4.2%</td><td>1.0</td><td>2.2%</td></t<>	NETL Infrastructure	45.0	43.1	46.0	-1.9	-4.2%	1.0	2.2%
Special recruitment programs         0.7         0.7         0.7         0.0         0.0%         0.0         0.0%           Nuclear Energy         1,326.1         824.0         1,317.8         -502.1         -37.9%         -8.3         -0.6%           Integrated university program         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           STEP R&D         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           Nuclear energy enabling technologies         152.6         98.5         125.0         -54.1         -35.5%         -27.6         -181.1%           Reactor concepts RD&D         323.5         215.2         325.0         -108.4         -33.5%         1.5         0.5%           Fuel cycle research and development         263.9         90.0         318.5         -173.9         -65.9%         54.6         20.7%           International nuclear energy cooperation         3.0         0.0         2.5         -3.0         -100.0%         -0.5         -16.7%           Radiological facilities management         29.0         9.0         9.0         -20.0         -69.0%         -20.0         -69.0%           INL facilities management<	Program direction	61.1	61.0	61.0	0.0	0.0%	0.0	0.0%
Nuclear Energy         1,326.1         824.0         1,317.8         -502.1         -37.9%         -8.3         -0.6%           Integrated university program         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           STEP R&D         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           Nuclear energy enabling technologies         152.6         98.5         125.0         -54.1         -35.5%         -27.6         -181.1%           Reactor concepts RD&D         323.5         215.2         325.0         -108.4         -33.5%         1.5         0.5%           Fuel cycle research and development         263.9         90.0         318.5         -173.9         -65.9%         54.6         20.7%           International nuclear energy cooperation         3.0         0.0         2.5         -3.0         -100.0%         -0.5         -16.7%           Radiological facilities management         29.0         9.0         9.0         -20.0         -69.0%         -20.0         -69.0%           INL facilities management         318.0         209.2         310.0         -108.8         -34.2%         -8.0         -2.5%	Special recruitment programs	0.7	0.7	0.7	0.0	0.0%	0.0	0.0%
Nuclear Energy         1,326.1         824.0         1,317.8         -502.1         -37.9%         -8.3         -0.6%           Integrated university program         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           STEP R&D         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           Nuclear energy enabling technologies         152.6         98.5         125.0         -54.1         -35.5%         -27.6         -181.%           Reactor concepts RD&D         323.5         215.2         325.0         -108.4         -33.5%         1.5         0.5%           Fuel cycle research and development         263.9         90.0         318.5         -173.9         -65.9%         54.6         20.7%           International nuclear energy cooperation         3.0         0.0         2.5         -3.0         -100.0%         -0.5         -16.7%           Radiological facilities management         29.0         9.0         9.0         -20.0         -69.0%         -20.0         -69.0%           INL facilities management         318.0         209.2         310.0         -108.8         -34.2%         -8.0         -2.5%								
Integrated university program         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           STEP R&D         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           Nuclear energy enabling technologies         152.6         98.5         125.0         -54.1         -35.5%         -27.6         -18.1%           Reactor concepts RD&D         323.5         215.2         325.0         -108.4         -33.5%         1.5         0.5%           Fuel cycle research and development         263.9         90.0         318.5         -173.9         -65.9%         54.6         20.7%           International nuclear energy cooperation         3.0         0.0         2.5         -3.0         -100.0%         -0.5         -16.7%           Radiological facilities management         29.0         9.0         9.0         -20.0         -69.0%         -20.0         -69.0%           INL facilities management         318.0         209.2         310.0         -108.8         -34.2%         -8.0         -2.5%	Nuclear Energy	1,326.1	824.0	1,317.8	-502.1	-37.9%	-8.3	-0.6%
STEP R&D         5.0         0.0         5.0         -5.0         -100.0%         0.0         0.0%           Nuclear energy enabling technologies         152.6         98.5         125.0         -54.1         -35.5%         -27.6         -18.1%           Reactor concepts RD&D         323.5         215.2         325.0         -108.4         -33.5%         1.5         0.5%           Fuel cycle research and development         263.9         90.0         318.5         -173.9         -65.9%         54.6         20.7%           International nuclear energy cooperation         3.0         0.0         2.5         -3.0         -100.0%         -0.5         -16.7%           Radiological facilities management         29.0         9.0         9.0         -20.0         -69.0%         -20.0         -69.0%         -20.0%         -69.0%         -25.5%         -30.0%         -20.0%         -69.0%         -20.0%         -69.0%         -20.0%         -69.0%         -20.0%         -69.0%         -20.0%         -69.0%         -20.0%         -69.0%         -20.0%         -69.0%         -20.0%         -69.0%         -20.0%         -69.0%         -20.0%         -20.0%         -20.0%         -20.0%         -20.0%         -20.0%         -20.0%	Integrated university program	5.0	0.0	5.0	-5.0	-100.0%	0.0	0.0%
Nuclear energy enabling technologies         152.6         98.5         125.0         -54.1         -35.5%         -27.6         -18.1%           Reactor concepts RD&D         323.5         215.2         325.0         -108.4         -33.5%         1.5         0.5%           Fuel cycle research and development         263.9         90.0         318.5         -173.9         -65.9%         54.6         20.7%           International nuclear energy cooperation         3.0         0.0         2.5         -3.0         -100.0%         -0.5         -16.7%           Radiological facilities management         29.0         9.0         9.0         -20.0         -69.0%         -20.0         -69.0%           INL facilities management         318.0         209.2         310.0         -108.8         -34.2%         -8.0         -2.5%	STEP R&D	5.0	0.0	5.0	-5.0	-100.0%	0.0	0.0%
Reactor concepts RD&D         323.5         215.2         325.0         -108.4         -33.5%         1.5         0.5%           Fuel cycle research and development         263.9         90.0         318.5         -173.9         -65.9%         54.6         20.7%           International nuclear energy cooperation         3.0         0.0         2.5         -3.0         -100.0%         -0.5         -16.7%           Radiological facilities management         29.0         9.0         9.0         -20.0         -69.0%         -20.0         -69.0%           INL facilities management         318.0         209.2         310.0         -108.8         -34.2%         -8.0         -2.5%	Nuclear energy enabling technologies	152.6	98.5	125.0	-54.1	-35.5%	-27.6	-18.1%
Fuel cycle research and development         263.9         90.0         318.5         -173.9         -65.9%         54.6         20.7%           International nuclear energy cooperation         3.0         0.0         2.5         -3.0         -100.0%         -0.5         -16.7%           Radiological facilities management         29.0         9.0         9.0         -20.0         -69.0%         -20.0         -69.0%           INL facilities management         318.0         209.2         310.0         -108.8         -34.2%         -8.0         -2.5%	Reactor concepts RD&D	323.5	215.2	325.0	-108.4	-33.5%	1.5	0.5%
International nuclear energy cooperation         3.0         0.0         2.5         -3.0         -100.0%         -0.5         -16.7%           Radiological facilities management         29.0         9.0         9.0         -20.0         -69.0%         -20.0         -69.0%           INL facilities management         318.0         209.2         310.0         -108.8         -34.2%         -8.0         -2.5%	Fuel cycle research and development	263.9	90.0	318.5	-173.9	-65.9%	54.6	20.7%
Radiological facilities management         29.0         9.0         9.0         -20.0         -69.0%         -20.0         -69.0%           INL facilities management         318.0         209.2         310.0         -108.8         -34.2%         -8.0         -2.5%	International nuclear energy cooperation	3.0	0.0	2.5	-3.0	-100.0%	-0.5	-16.7%
INL facilities management 318.0 209.2 310.0 -108.8 -34.2% -8.0 -2.5%	Radiological facilities management	29.0	9.0	9.0	-20.0	-69.0%	-20.0	-69.0%
	INL facilities management	318.0	209.2	310.0	-108.8	-34.2%	-8.0	-2.5%

DIL Citamida Cafannada and Canada	146.1	127.0	127.0	0.2	E 70/	0.2	5 70/
INL Shewide Saleguards and Security	140.1	137.0	137.8	-6.5	-3./70	-8.5	-3./70
Program Direction	80.0	64.4	80.0	-15./	-19.6%	0.0	0.0%
Office of Science	6,585.0	5,546.0	6,870.0	-1,039.0	-15.8%	285.0	4.1%
Advanced scientific computing research	935.5	920.9	956.5	-14.6	-1.6%	21.0	2.2%
Research	702.8	732.2	767.8	29.4	4.2%	65.0	9.3%
Exascale Computing Project	232.7	188.7	188.7	-44.0	-18.9%	-44.0	-18.9%
Basic energy sciences	2,166.0	1,858.3	2,143.0	-307.7	-14.2%	-23.0	-1.1%
Research	1.757.7	1.675.3	1.819.0	-82.4	-4.7%	61.3	3.5%
Construction (LCLS-II APS-I/ ALS-I/)	408.3	183.0	324.0	-225 3	-55.2%	-84 3	-20.6%
Biological and environmental research	705.0	494.4	730.0	-210.6	-29.9%	25.0	3.5%
Fusion energy sciences	564.0	402.8	688.0	-161.3	-28.6%	124.0	22.0%
Pasagrah	422.0	204.8	438.0	127.2	21.80/	6.0	1 404
Construction (ITED)	122.0	108.0	250.0	-137.5	-51.870	118.0	PO 40/
Unstruction (ITER)	132.0	108.0	230.0	-24.0	-18.270	118.0	69.470
High Energy Physics	980.0	/68.0	1,045.0	-212.0	-21.6%	65.0	6.6%
Research	800.0	648.0	814.0	-152.0	-19.0%	14.0	1.8%
Construction	180.0	120.0	231.0	-60.0	-33.3%	51.0	28.3%
Nuclear Physics	690.0	624.9	735.0	-65.1	-9.4%	45.0	6.5%
Operations and maintenance	615.0	579.9	669.0	-35.1	-5.7%	54.0	8.8%
Construction	75.0	45.0	66.0	-30.0	-40.0%	-9.0	-12.0%
Workforce development for teachers and scientists	22.5	19.5	25.0	-3.0	-13.3%	2.5	11.1%
Science laboratories infrastructure	232.9	163.6	250.8	-69.3	-29.8%	17.9	7.7%
Infrastructure support	79.7	45.2	65.2	-34.5	-43.3%	-14.5	-18.2%
Payment in lieu of taxes	17	4.5	56	2.8	165.0%	3.9	227.5%
Oak Bidge landlord	6.4	5.6	5.6	0.8	12.8%	0.8	12.8%
Cak Rage landiola Encilities and infrastructure	45.5	25.1	45.0	-0.8	-12.870	-0.8	1 20/
Faculties and infrastructure	45.5	23.1	43.0	-20.3	-43.0%	-0.3	-1.270
Oak Riage nuclear operations	20.0	10.0	10.0	-10.0	-01.5%	-10.0	-01.5%
Construction	153.2	118.4	185./	-34.8	-22.7%	32.5	21.2%
BNL - Critical Utilities Rehabilitation Project	0.0	12.0	15.0	12.0	#DIV/0!	15.0	0.0%
LBNL - Seismic and Safety Modernization	0.0	5.0	5.0	5.0	#DIV/0!	5.0	0.0%
TJNAF - CEBAF Renovation and Expansion	0.0	2.0	2.0	2.0	#DIV/0!	2.0	0.0%
ORNL - Craft Resources Support Facility	0.0	20.0	15.0	20.0	#DIV/0!	15.0	0.0%
SLAC - Large Scale Collaboration Center	0.0	3.0	10.7	3.0	#DIV/0!	10.7	0.0%
BNL - Science User Support Center	7.0	6.4	20.0	-0.6	-8.6%	13.0	185.7%
	20.0	20.0	20.0	0.0	0.00/	0.0	0.00/
ANL - Electrical Capacity and Distribution Capability	30.0	30.0	30.0	0.0	0.0%	0.0	0.0%
ORNL - Translational Research Capacity	25.0	15.0	25.0	-10.0	-40.0%	0.0	0.0%
LBNL - BioEPIC	5.0	6.0	12.0	1.0	20.0%	7.0	139.6%
PNNL - Energy Sciences Capability	24.0	9.0	26.0	-15.0	-62.5%	2.0	8.3%
FNAL - Integrated Engineering Research Center	20.0	10.0	25.0	-10.0	-50.0%	5.0	25.0%
BNL - Core Facility Revitalization	42.2	0.0	0.0	-42.2	-100.0%	-42.2	-100.0%
ANI Materials Design Laboratory	0.0	0.0	0.0	0.0	#DIV/01	0.0	#DIV/0!
I PNL Integrative Comparing Puilding	0.0	0.0	0.0	0.0	#DIV/0:	0.0	#DIV/0:
Seferende en deservite	106.1	110.6	110.6	0.0	#DIV/0:	0.0	#D1V/0:
Saleguards and security	100.1	110.0	110.0	4.3	4.3%	4.3	4.370
Program Direction	183.0	183.0	186.0	0.0	0.0%	3.0	1.6%
ARPA-E	366.0	-287.0	425.0	-653.0	-178.4%	59.0	16.1%
ARPA-E projects	334.8	0.0	391.0	-334.8	-100.0%	56.3	16.8%
Program direction	31.3	0.0	34.0	-31.3	-100.0%	2.8	8.8%
Rescission of prior year balances	0.0	-287.0	0.0	-287.0	#DIV/0!	0.0	#DIV/0!
Loan Guarantee Programs	19.0	-169.2	36.0	-188.2	-990.3%	17.0	47.2%
TITLE 17 - Innovative Technology Loan Guarantee Program	13.0	0.0	30.0	-13.0	-100.0%	17.0	130.8%
Administrative expenses	33.0	3.0	33.0	-30.0	-90.9%	0.0	0.0%
Offsetting collection	-15.0	-3.0	-3.0	17.0	85.0%	12.0	-80.0%
Rescission of prior year balances	0.0	-160.7	0.0	-160.7	-160.7%	0.0	0.0%
Advanced Technology Vahiolog Manufacturing Loop Broomer	5.0	0.0	5.0	5.0	100.0%	0.0	0.0%
Advanced recimology venicles Manufacturing Loan Program	5.0	0.0	5.0	-3.0	-100.0%	0.0	0.070
Auministrative expenses	5.0	0.0	5.0	-3.0	-100.0%	0.0	0.0%
I ribai Energy Loan Guarentee Program	1.0	-8.5	1.0	-9.5	-950.0%	0.0	0.0%
Administrative expenses	1.0	0.0	1.0	-1.0	-100.0%	0.0	0.0%
Reccission	0.0	-8.5	0.0	-8.5	#DIV/0!	0.0	0.0%