## Discretionary Summary by Appropriation

**Energy and Water Development and Related Agencies**

### Appropriation Summary:

#### Energy Programs

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2018 Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Congressional Request</th>
<th>FY 2019 Request vs FY 2020 Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy efficiency and renewable energy</td>
<td>2,321,778</td>
<td>2,379,000</td>
<td>343,000</td>
<td>-2,036,000</td>
</tr>
<tr>
<td>Electricity delivery and energy reliability</td>
<td>261,329</td>
<td>---</td>
<td>---</td>
<td>0</td>
</tr>
<tr>
<td>Cybersecurity, Energy Security, and Emergency Response</td>
<td>---</td>
<td>---</td>
<td>120,000</td>
<td>---</td>
</tr>
<tr>
<td>Nuclear energy</td>
<td>1,205,056</td>
<td>1,326,090</td>
<td>824,000</td>
<td>-502,090</td>
</tr>
</tbody>
</table>

#### Fossil energy programs

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2018 Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Enacted</th>
<th>FY 2019 Request vs FY 2020 Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sale of Northeast Home Heating Oil Reserve</td>
<td>---</td>
<td>---</td>
<td>82,000</td>
<td>-82,000</td>
</tr>
<tr>
<td>Sale of Northeast Gasoline Supply Reserve (NGSR)</td>
<td>---</td>
<td>---</td>
<td>75,000</td>
<td>-75,000</td>
</tr>
<tr>
<td>Excess Fees and Recoveries, FERC</td>
<td>---</td>
<td>---</td>
<td>9,000</td>
<td>-16,000</td>
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<tr>
<td>Agencies</td>
<td>34,526,657</td>
<td>35,657,317</td>
<td>31,890,529</td>
<td>-3,766,788</td>
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<tr>
<td>Subtotal, Energy And Water Development and Related Agencies</td>
<td>36,892</td>
<td>19,000</td>
<td>-169,159</td>
<td>-188,159</td>
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</table>

#### Credit Programs

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2018 Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Enacted</th>
<th>FY 2019 Request vs FY 2020 Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loan guarantee program</td>
<td>30,892</td>
<td>13,000</td>
<td>-160,659</td>
<td>-173,659</td>
</tr>
<tr>
<td>Advanced technology vehicles manufacturing</td>
<td>5,000</td>
<td>5,000</td>
<td>---</td>
<td>-5,000</td>
</tr>
<tr>
<td>Tribal energy loan guarantee program</td>
<td>1,000</td>
<td>1,000</td>
<td>-8,500</td>
<td>-9,500</td>
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</table>

#### Atomic Energy Defense Activities

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2018 Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Enacted</th>
<th>FY 2019 Request vs FY 2020 Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>National nuclear security administration:</td>
<td>407,595</td>
<td>410,000</td>
<td>434,699</td>
<td>+24,699</td>
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<tr>
<td>Weapons activities</td>
<td>10,642,138</td>
<td>11,100,000</td>
<td>12,408,603</td>
<td>+1,308,603</td>
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<tr>
<td>Defense nuclear nonproliferation</td>
<td>1,999,219</td>
<td>1,930,000</td>
<td>1,993,302</td>
<td>+63,302</td>
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<tr>
<td>Naval reactors</td>
<td>1,620,000</td>
<td>1,768,618</td>
<td>1,648,396</td>
<td>-140,222</td>
</tr>
<tr>
<td>Environmenal and other defense activities:</td>
<td>4,888,048</td>
<td>6,024,000</td>
<td>5,506,501</td>
<td>-517,499</td>
</tr>
<tr>
<td>Defense environmental cleanup</td>
<td>540,000</td>
<td>860,292</td>
<td>1,035,339</td>
<td>+175,047</td>
</tr>
<tr>
<td>Defense nuclear waste disposal (90M in DNWF 050)</td>
<td>353,154</td>
<td>362,744</td>
<td>362,744</td>
<td>0</td>
</tr>
<tr>
<td>Total, Environmental &amp; other defense activities</td>
<td>6,828,048</td>
<td>6,884,292</td>
<td>6,567,840</td>
<td>-216,452</td>
</tr>
</tbody>
</table>

#### Power marketing administrations:

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2018 Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Enacted</th>
<th>FY 2019 Request vs FY 2020 Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southeastern power administration</td>
<td>34,526,657</td>
<td>35,657,317</td>
<td>31,890,529</td>
<td>-3,766,788</td>
</tr>
<tr>
<td>Western area power administration (CROM)</td>
<td>39,372</td>
<td>89,372</td>
<td>89,196</td>
<td>-176</td>
</tr>
<tr>
<td>Colorado River Basins</td>
<td>228</td>
<td>228</td>
<td>228</td>
<td>0</td>
</tr>
<tr>
<td>Total, Power marketing administrations</td>
<td>82,000</td>
<td>77,000</td>
<td>78,424</td>
<td>+1,424</td>
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</table>

### Federal energy regulatory commission:

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2018 Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Enacted</th>
<th>FY 2019 Request vs FY 2020 Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title XVII Loan guar. prog section 1703</td>
<td>9,000</td>
<td>-16,000</td>
<td>9,000</td>
<td>0</td>
</tr>
<tr>
<td>Title XVII Loan guar. prog section 1703</td>
<td>-107,000</td>
<td>-15,000</td>
<td>92,000</td>
<td>+86.0%</td>
</tr>
<tr>
<td>Sale of Northeast Gasoline Supply Reserve (NGSR)</td>
<td>75,000</td>
<td>-75,000</td>
<td>75,000</td>
<td>N/A</td>
</tr>
<tr>
<td>Sale of Northeast Home Heating Oil Reserve</td>
<td>82,000</td>
<td>82,000</td>
<td>82,000</td>
<td>N/A</td>
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</tbody>
</table>

### Total, Discretionary Funding

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2018 Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Enacted</th>
<th>FY 2019 Request vs FY 2020 Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Programs</td>
<td>34,526,657</td>
<td>35,657,317</td>
<td>31,890,529</td>
<td>-3,766,788</td>
</tr>
</tbody>
</table>

*The FY 2020 budget request for $27M in NGSR does not include a request for direct appropriations; instead the Department is requesting authorization to deposit up to $27 million in proceeds from the sale of one-million barrels of refined petroleum product (gasoline blendstock) from the Strategic Petroleum Reserve.*
Memo: Total Discretionary by budget function

<table>
<thead>
<tr>
<th></th>
<th>FY 2018 Total Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Congressional Request</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Defense (050) function, non-add)</td>
<td>(21,630,000)</td>
<td>(22,259,000)</td>
<td>(23,190,648)</td>
<td></td>
</tr>
<tr>
<td>(Non-Defense (250/270) function, non-add)</td>
<td>(12,887,657)</td>
<td>(13,275,317)</td>
<td>(8,511,881)</td>
<td></td>
</tr>
<tr>
<td>(Science (250) function, non-add)</td>
<td>(6,259,903)</td>
<td>(6,585,000)</td>
<td>(5,545,972)</td>
<td></td>
</tr>
<tr>
<td>(Energy (270) function, non-add)</td>
<td>(6,627,754)</td>
<td>(6,690,317)</td>
<td>(2,965,909)</td>
<td></td>
</tr>
</tbody>
</table>
### Energy Efficiency and Renewable Energy

**Energy Efficiency and Renewable Energy RDD&D**

<table>
<thead>
<tr>
<th>Program direction</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total, Sustainable transportation</td>
<td>337,500</td>
<td>344,000</td>
<td>73,400</td>
<td>-270,600</td>
</tr>
<tr>
<td>Bioenergy technologies</td>
<td>221,545</td>
<td>228,000</td>
<td>40,000</td>
<td>-188,000</td>
</tr>
<tr>
<td>Hydrogen and fuel cell technologies</td>
<td>115,000</td>
<td>120,000</td>
<td>44,000</td>
<td>-76,000</td>
</tr>
<tr>
<td>Total, Sustainable transportation</td>
<td>674,045</td>
<td>690,000</td>
<td>157,400</td>
<td>-532,600</td>
</tr>
</tbody>
</table>

**Renewable power:**

| Solar energy technologies | 241,600 | 246,500 | 67,000 | -179,500 | -72.8% |
| Wind energy technologies | 92,000 | 92,000 | 23,700 | -68,300 | -74.2% |
| Water power technologies | 105,000 | 105,000 | 45,000 | -60,000 | -57.1% |
| Geothermal technologies | 80,906 | 84,000 | 28,000 | -56,000 | -67.7% |
| Total, Renewable power | 519,508 | 527,500 | 163,700 | -363,800 | -69.0% |

**Energy efficiency:**

| Advanced Manufacturing | 305,000 | 320,000 | 80,500 | -239,500 | -74.8% |
| Building Technologies | 220,727 | 228,000 | 57,000 | -171,000 | -74.8% |
| Weatherization and intergovernmental programs | 248,000 | 254,000 | --- | -254,000 | -100.0% |
| Training and technical assistance | 3,000 | 3,000 | --- | -3,000 | -100.0% |
| Total, Weatherization | 251,000 | 257,000 | --- | -257,000 | -100.0% |

**State energy program grants**

| Total, State energy program grants | 55,000 | 55,000 | --- | -55,000 | -100.0% |

**Programs:**

| Total, Program direction | 306,000 | 312,000 | --- | -312,000 | -100.0% |

**Corporate support programs:**

| Program direction | 162,500 | 162,500 | 122,000 | -40,500 | -24.9% |
| Strategic programs | 15,000 | 14,000 | --- | -14,000 | -100.0% |
| Total, Corporate support programs | 269,500 | 272,500 | 225,000 | -44,500 | -16.3% |

**Subtotal, Energy Efficiency and Renew. Energy RDD&D**

| Subtotal, Energy Efficiency and Renew. Energy RDD&D | 2,321,778 | 2,379,000 | 696,000 | -1,683,000 | -70.7% |

**Adjustments:**

| Use of prior year balances (EE) | --- | --- | --- | -353,000 | -353,000 |
| Subtotal, Energy Efficiency and Renewable Energy | 2,321,778 | 2,379,000 | 343,000 | -2,036,000 | -85.6% |

**Total, Energy Efficiency and Renewable Energy**

| Total, Energy Efficiency and Renewable Energy | 2,321,778 | 2,379,000 | 343,000 | -2,036,000 | -85.6% |

### Electricity Delivery and Energy Reliability

**Transmission reliability**

| Resilient distribution systems | 44,987 | --- | --- | 0 | N/A |
| Energy storage | 41,000 | --- | --- | 0 | N/A |
| Transformer resilience and advanced components | 7,000 | --- | --- | 0 | N/A |
| Transmission permitting and technical assistance | 7,850 | --- | --- | 0 | N/A |
| Infrastructure security and energy restoration | 14,900 | --- | --- | 0 | N/A |
| Cybersecurity for energy delivery systems | 75,829 | --- | --- | 0 | N/A |
| Program direction | 29,163 | --- | --- | 0 | N/A |
| Subtotal, Program direction | 29,163 | --- | --- | 0 | N/A |
| Total, Electricity Delivery and Energy Reliability | 261,329 | --- | --- | 0 | N/A |

**Electricity (Delivery)**

<p>| Transmission Reliability and Resilience | --- | 39,000 | 70,500 | +31,500 | +80.8% |
| Resilient distribution systems | --- | 40,000 | 27,900 | -12,100 | -30.3% |
| Energy storage Research | --- | 46,000 | 43,500 | -2,500 | -5.4% |
| Construction: 20-0E-100 Grid Storage Launchpad | --- | 48,000 | 48,500 | +5,000 | N/A |
| Total, Energy storage | --- | 46,000 | 48,500 | +2,500 | +5.4% |</p>
<table>
<thead>
<tr>
<th>FY 2018 Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Congressional Request</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Enacted</td>
<td>Total Enacted</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Appropri.</td>
<td>Appropri.</td>
<td></td>
</tr>
<tr>
<td>Transformer resilience and advanced components</td>
<td>7,000</td>
<td>9,000</td>
<td>+2,000</td>
</tr>
<tr>
<td>Transmission permitting and technical assistance</td>
<td>7,000</td>
<td>7,000</td>
<td>0</td>
</tr>
<tr>
<td>Program direction</td>
<td>17,000</td>
<td>19,600</td>
<td>+2,600</td>
</tr>
<tr>
<td><strong>Total, Electricity (Delivery)</strong></td>
<td><strong>156,000</strong></td>
<td><strong>182,500</strong></td>
<td><strong>+26,500</strong></td>
</tr>
<tr>
<td><strong>Cybersecurity, Energy Security, and Emergency</strong></td>
<td>89,500</td>
<td>75,000</td>
<td>-14,500</td>
</tr>
<tr>
<td><strong>Response</strong></td>
<td>19,000</td>
<td>70,000</td>
<td>+51,000</td>
</tr>
<tr>
<td><strong>Program Direction</strong></td>
<td>11,500</td>
<td>15,100</td>
<td>0</td>
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<tr>
<td><strong>Total, Office of Cybersecurity, Energy Security, and Emergency</strong></td>
<td>120,000</td>
<td>156,500</td>
<td>+36,500</td>
</tr>
<tr>
<td><strong>Nuclear Energy</strong></td>
<td>5,000</td>
<td>5,000</td>
<td>-5,000</td>
</tr>
<tr>
<td>Research and Development</td>
<td>5,000</td>
<td>5,000</td>
<td>-5,000</td>
</tr>
<tr>
<td>Integrated University Program</td>
<td>237,000</td>
<td>323,500</td>
<td>215,150</td>
</tr>
<tr>
<td>Reactor Concepts RD&amp;D</td>
<td>260,056</td>
<td>263,915</td>
<td>90,000</td>
</tr>
<tr>
<td>Nuclear Energy Enabling Technologies</td>
<td>159,000</td>
<td>152,585</td>
<td>98,450</td>
</tr>
<tr>
<td>International nuclear energy cooperation</td>
<td>3,000</td>
<td>3,000</td>
<td>-3,000</td>
</tr>
<tr>
<td><strong>Total, Research and Development</strong></td>
<td>669,056</td>
<td>763,000</td>
<td>403,000</td>
</tr>
<tr>
<td>Radiological facility management</td>
<td>29,000</td>
<td>29,000</td>
<td>9,000</td>
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<tr>
<td>Idaho facilities management</td>
<td>288,000</td>
<td>288,000</td>
<td>204,000</td>
</tr>
<tr>
<td>Construction</td>
<td>6,000</td>
<td>30,000</td>
<td>5,242</td>
</tr>
<tr>
<td><strong>Total, Idaho facilities management</strong></td>
<td>294,000</td>
<td>318,000</td>
<td>209,242</td>
</tr>
<tr>
<td>Idaho sitewide safeguards and security</td>
<td>133,000</td>
<td>146,090</td>
<td>137,808</td>
</tr>
<tr>
<td>Program Direction</td>
<td>80,000</td>
<td>80,000</td>
<td>64,350</td>
</tr>
<tr>
<td><strong>Subtotal, Nuclear Energy</strong></td>
<td>1,205,056</td>
<td>1,326,090</td>
<td>824,000</td>
</tr>
<tr>
<td><strong>Adjustments</strong></td>
<td>( 85,500)</td>
<td>( 56,500)</td>
<td>( 56,500)</td>
</tr>
<tr>
<td><strong>Total, Nuclear Energy</strong></td>
<td>1,205,056</td>
<td>1,326,090</td>
<td>824,000</td>
</tr>
<tr>
<td><strong>Defense (050) function</strong></td>
<td>( 133,000)</td>
<td>( 146,090)</td>
<td>( 137,808)</td>
</tr>
<tr>
<td><strong>Energy (270) function</strong></td>
<td>( 1,072,056)</td>
<td>( 1,180,000)</td>
<td>( 686,192)</td>
</tr>
<tr>
<td><strong>Fossil Energy Research and Development</strong></td>
<td><strong>50,000</strong></td>
<td><strong>51,000</strong></td>
<td><strong>10,730</strong></td>
</tr>
<tr>
<td>Coal</td>
<td><strong>98,096</strong></td>
<td><strong>98,096</strong></td>
<td><strong>-98,096</strong></td>
</tr>
<tr>
<td>Advanced Energy Systems</td>
<td><strong>112,000</strong></td>
<td><strong>129,883</strong></td>
<td><strong>-129,883</strong></td>
</tr>
<tr>
<td>Cross-cutting research</td>
<td><strong>58,350</strong></td>
<td><strong>56,350</strong></td>
<td><strong>-56,350</strong></td>
</tr>
<tr>
<td><strong>Total, Coal CCS and Power Systems</strong></td>
<td><strong>369,117</strong></td>
<td><strong>384,800</strong></td>
<td><strong>-384,800</strong></td>
</tr>
<tr>
<td>NETL coal research and development</td>
<td>53,000</td>
<td>54,000</td>
<td>-54,000</td>
</tr>
<tr>
<td>Supercritical Transformational Electric Power</td>
<td>24,000</td>
<td>22,430</td>
<td>-22,430</td>
</tr>
<tr>
<td>Transformational coal pilots</td>
<td>35,000</td>
<td>25,000</td>
<td>-25,000</td>
</tr>
<tr>
<td><strong>Total, Coal</strong></td>
<td>481,117</td>
<td>486,230</td>
<td>-486,230</td>
</tr>
<tr>
<td><strong>Advanced Coal Energy Systems &amp; CCUS</strong></td>
<td>60,000</td>
<td>61,070</td>
<td>61,045</td>
</tr>
<tr>
<td>NETL Research and Operations</td>
<td>50,000</td>
<td>50,000</td>
<td>40,000</td>
</tr>
<tr>
<td><strong>NETL Infrastructure and operations</strong></td>
<td>45,000</td>
<td>45,000</td>
<td>43,100</td>
</tr>
<tr>
<td><strong>Total, Fossil Energy Research and Development</strong></td>
<td><strong>726,817</strong></td>
<td><strong>740,000</strong></td>
<td><strong>562,000</strong></td>
</tr>
</tbody>
</table>
### Fossil Energy Petroleum Reserves

<table>
<thead>
<tr>
<th></th>
<th>FY 2018 Total Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Congressional Request</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naval petroleum &amp; Oil Shale Reserve</td>
<td>20,200</td>
<td>10,000</td>
<td>14,000</td>
<td>+4,000 +40.0%</td>
</tr>
<tr>
<td>Use of prior year balances</td>
<td>-15,300</td>
<td>---</td>
<td>---</td>
<td>0 N/A</td>
</tr>
<tr>
<td>Total, Naval Petroleum &amp; Oil Shale Reserve</td>
<td>4,900</td>
<td>10,000</td>
<td>14,000</td>
<td>+4,000 +40.0%</td>
</tr>
</tbody>
</table>

### Strategic Petroleum Reserve

<table>
<thead>
<tr>
<th></th>
<th>FY 2018 Total Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Congressional Request</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strategic petroleum reserve</td>
<td>223,000</td>
<td>206,000</td>
<td>174,000</td>
<td>-32,000 -15.5%</td>
</tr>
<tr>
<td>Sale of crude oil</td>
<td>-350,000</td>
<td>-300,000</td>
<td>-450,000</td>
<td>-150,000 -50.0%</td>
</tr>
<tr>
<td>Use of sale proceeds</td>
<td>350,000</td>
<td>300,000</td>
<td>450,000</td>
<td>+150,000 +50.0%</td>
</tr>
<tr>
<td>Northeast Gasoline Supply Reserve</td>
<td>29,000</td>
<td>29,000</td>
<td>---</td>
<td>-29,000 -100.0%</td>
</tr>
<tr>
<td>Supplemental Hurricane Funding</td>
<td>8,716</td>
<td>---</td>
<td>---</td>
<td>0 N/A</td>
</tr>
<tr>
<td>Total, Strategic Petroleum Reserve</td>
<td>261,716</td>
<td>235,000</td>
<td>174,000</td>
<td>-61,000 -26.0%</td>
</tr>
</tbody>
</table>

### SPR Petroleum Account

<table>
<thead>
<tr>
<th></th>
<th>FY 2018 Total Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Congressional Request</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
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</thead>
<tbody>
<tr>
<td>SPR Petroleum Account</td>
<td>11,400</td>
<td>10,000</td>
<td>---</td>
<td>-10,000 -100.0%</td>
</tr>
<tr>
<td>Use of prior year balances</td>
<td>-3,000</td>
<td>---</td>
<td>---</td>
<td>0 N/A</td>
</tr>
<tr>
<td>Use of NGSR refined petroleum product sale proceeds</td>
<td>---</td>
<td>---</td>
<td>27,000</td>
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<tr>
<td>Total, SPR Petroleum Account</td>
<td>8,400</td>
<td>10,000</td>
<td>27,000</td>
<td>+17,000 +170.0%</td>
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</table>

### Nuclear Energy Information System

<table>
<thead>
<tr>
<th></th>
<th>FY 2018 Total Enacted</th>
<th>FY 2019 Enacted</th>
<th>FY 2020 Congressional Request</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
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</thead>
<tbody>
<tr>
<td>National energy information system</td>
<td>125,000</td>
<td>125,000</td>
<td>118,000</td>
<td>-7,000 -5.6%</td>
</tr>
</tbody>
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### Science

#### Office of Science

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Construction: 17-SC 20 SC Exascale Computing Project (SC-ECP)</td>
<td>605,000</td>
<td>702,794</td>
<td>732,153</td>
<td>+29,359 +4.2%</td>
</tr>
<tr>
<td>Total, Construction</td>
<td>205,000</td>
<td>232,706</td>
<td>188,735</td>
<td>-43,971 -18.9%</td>
</tr>
<tr>
<td>Total, Advanced Scientific Computing Research</td>
<td>810,000</td>
<td>935,500</td>
<td>920,888</td>
<td>-14,612 -1.6%</td>
</tr>
</tbody>
</table>

#### Basic Energy Sciences

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Total, Nuclear Physics</td>
<td>1,744,900</td>
<td>1,757,700</td>
<td>1,675,285</td>
<td>-82,415 -4.7%</td>
</tr>
<tr>
<td>Construction: 15-SC-10 Linac Coherent Light Source (LCLS-II), SLAC</td>
<td>192,100</td>
<td>129,300</td>
<td>---</td>
<td>-129,300 -100.0%</td>
</tr>
<tr>
<td>Total, Advanced Scientific Computing Research</td>
<td>810,000</td>
<td>935,500</td>
<td>920,888</td>
<td>-14,612 -1.6%</td>
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</tbody>
</table>

#### Biological and Environmental Research

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Total, Nuclear Physics</td>
<td>673,000</td>
<td>705,000</td>
<td>494,434</td>
<td>-210,566 -29.9%</td>
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<tr>
<td>Construction: 20-SC-61 Matter in Extreme Conditions (MEC) Petawatt Upgrade, SLAC</td>
<td>---</td>
<td>---</td>
<td>1,000</td>
<td>+1,000 N/A</td>
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<tr>
<td>Total, Construction</td>
<td>122,000</td>
<td>132,000</td>
<td>108,000</td>
<td>-24,000 -18.2%</td>
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<tr>
<td>Total, Basic Energy Sciences</td>
<td>2,090,000</td>
<td>2,166,000</td>
<td>1,858,285</td>
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</table>

#### Fusion Energy Sciences

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Total, Nuclear Physics</td>
<td>767,600</td>
<td>800,000</td>
<td>648,038</td>
<td>-151,962 -19.0%</td>
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<tr>
<td>Construction: 20-SC-42 Proton Improvement Plan II (PIP-II), FNAL</td>
<td>1,000</td>
<td>20,000</td>
<td>20,000</td>
<td>0 N/A</td>
</tr>
<tr>
<td>Total, Construction</td>
<td>122,000</td>
<td>132,000</td>
<td>108,000</td>
<td>-24,000 -18.2%</td>
</tr>
<tr>
<td>Total, Fusion Energy Sciences</td>
<td>532,111</td>
<td>564,000</td>
<td>402,750</td>
<td>-161,250 -28.6%</td>
</tr>
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</table>

#### High Energy Physics

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Total, Nuclear Physics</td>
<td>586,800</td>
<td>615,000</td>
<td>579,854</td>
<td>-35,146 -5.7%</td>
</tr>
<tr>
<td>Construction: 20-SC-51 U.S. Stable Isotope Production and Research Center, ORNL (US SIPRC)</td>
<td>---</td>
<td>---</td>
<td>5,000</td>
<td>+5,000 N/A</td>
</tr>
<tr>
<td>Total, Construction</td>
<td>97,200</td>
<td>75,000</td>
<td>45,000</td>
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<tr>
<td>Total, High Energy Physics</td>
<td>908,000</td>
<td>980,000</td>
<td>768,038</td>
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#### Nuclear Physics

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Total, Nuclear physics</td>
<td>684,000</td>
<td>690,000</td>
<td>624,854</td>
<td>-65,146 -9.4%</td>
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</table>

#### Workforce Development for Teachers and Scientists

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Total, Nuclear physics</td>
<td>19,500</td>
<td>22,500</td>
<td>19,500</td>
<td>-3,000 -13.3%</td>
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</table>

#### Science Laboratories Infrastructure

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total, Nuclear physics</td>
<td>104,442</td>
<td>79,690</td>
<td>45,200</td>
<td>-34,490 -43.3%</td>
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</table>

#### Construction

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Total, Nuclear physics</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
<td>0 N/A</td>
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*U.S. DEPARTMENT OF ENERGY*

*FY 2020 Statistical Table by Appropriation*  
*(dollars in thousands - OMB Scoring)*
### Total, Departmental Administration (gross)

<table>
<thead>
<tr>
<th>Description</th>
<th>Total Enacted FY 2018</th>
<th>Total Enacted FY 2019</th>
<th>Congressional Request FY 2020</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$30,000</td>
<td>$30,000</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>19-SC-72 Electrical Capacity and Distribution Capability, ANL</td>
<td>30,000</td>
<td>30,000</td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>19-SC-73 Translational Research Capability, ORNL</td>
<td>25,000</td>
<td>15,000</td>
<td>-10,000</td>
<td>-40.0%</td>
</tr>
<tr>
<td>19-SC-74 BioEPIC, LBNL</td>
<td>5,000</td>
<td>6,000</td>
<td>+1,000</td>
<td>+20.0%</td>
</tr>
<tr>
<td>18-SC-71 Energy Sciences Capability at PNNL</td>
<td>20,000</td>
<td>24,000</td>
<td>9,000</td>
<td>-15,000</td>
</tr>
<tr>
<td>17-SC-71 Integrated Engineering Research Center, FNAL</td>
<td>20,000</td>
<td>20,000</td>
<td>10,000</td>
<td>-10,000</td>
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<tr>
<td>17-SC-73 Core Facility Revitalization, BNL</td>
<td>30,000</td>
<td>42,200</td>
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<tr>
<td>15-SC-78 Integrative Genomics Building, LBNL</td>
<td>38,350</td>
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<tr>
<td>15-SC-76 Materials Design Laboratory, ANL</td>
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<tr>
<td>Total, Construction</td>
<td>152,850</td>
<td>153,200</td>
<td>118,400</td>
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<tr>
<td>Total, Science Laboratories Infrastructure</td>
<td>257,292</td>
<td>232,890</td>
<td>163,600</td>
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<tr>
<td>Safeguards and Security</td>
<td>103,000</td>
<td>106,110</td>
<td>110,623</td>
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<tr>
<td>Science Program Direction</td>
<td>183,000</td>
<td>183,000</td>
<td>183,000</td>
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<tr>
<td>Total, Science</td>
<td>6,259,963</td>
<td>6,585,000</td>
<td>5,545,972</td>
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</table>

### Advanced Research Projects Agency - Energy

<table>
<thead>
<tr>
<th>Program</th>
<th>Total FY 2018</th>
<th>Total FY 2019</th>
<th>Congressional Request FY 2020</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program direction</td>
<td>324,064</td>
<td>334,750</td>
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<td>-100.0%</td>
</tr>
<tr>
<td>Rescission of prior year balances</td>
<td>29,250</td>
<td>31,250</td>
<td>-31,250</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Total, Advanced Research Projects Agency - Energy</td>
<td>353,314</td>
<td>366,000</td>
<td>-287,000</td>
<td>-78.4%</td>
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</tbody>
</table>

### Office of Indian Energy Policy and Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Total FY 2018</th>
<th>Total FY 2019</th>
<th>Congressional Request FY 2020</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
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</thead>
<tbody>
<tr>
<td>Program direction</td>
<td>---</td>
<td>13,200</td>
<td>4,479</td>
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<tr>
<td>Total, Office of Indian Energy Policy and Programs</td>
<td>---</td>
<td>18,000</td>
<td>8,000</td>
<td>-100%</td>
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### Nuclear Waste Disposal

<table>
<thead>
<tr>
<th>Program</th>
<th>Total FY 2018</th>
<th>Total FY 2019</th>
<th>Congressional Request FY 2020</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
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</thead>
<tbody>
<tr>
<td>Program direction</td>
<td>---</td>
<td>90,000</td>
<td>+90,000</td>
<td>N/A</td>
</tr>
<tr>
<td>Total, Nuclear Waste Disposal</td>
<td>---</td>
<td>90,000</td>
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### Departmental Administration

<table>
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<tr>
<th>Program</th>
<th>Total FY 2018</th>
<th>Total FY 2019</th>
<th>Congressional Request FY 2020</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
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<tbody>
<tr>
<td>Office of the Secretary</td>
<td>5,300</td>
<td>5,395</td>
<td>5,119</td>
<td>-276</td>
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<tr>
<td>Congressional &amp; intergovernmental affairs</td>
<td>6,200</td>
<td>6,200</td>
<td>5,895</td>
<td>-305</td>
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<tr>
<td>Chief financial officer</td>
<td>48,484</td>
<td>48,912</td>
<td>52,000</td>
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<tr>
<td>Economic impact and diversity</td>
<td>10,169</td>
<td>10,169</td>
<td>9,494</td>
<td>-675</td>
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<tr>
<td>Office of Indian energy policy and programs</td>
<td>18,000</td>
<td>---</td>
<td>---</td>
<td>0</td>
</tr>
<tr>
<td>Chief information officer</td>
<td>126,274</td>
<td>131,624</td>
<td>124,554</td>
<td>-7,070</td>
</tr>
<tr>
<td>Management</td>
<td>54,745</td>
<td>55,385</td>
<td>54,358</td>
<td>-675</td>
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<tr>
<td>Project Management Oversight and Assessments</td>
<td>15,192</td>
<td>15,005</td>
<td>14,255</td>
<td>-750</td>
</tr>
<tr>
<td>Chief human capital officer</td>
<td>25,513</td>
<td>26,125</td>
<td>24,316</td>
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<tr>
<td>Office of Small and Disadvantaged Business Utilization</td>
<td>3,000</td>
<td>3,170</td>
<td>3,609</td>
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<tr>
<td>General counsel</td>
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<td>33,075</td>
<td>33,075</td>
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<tr>
<td>Energy policy and systems analysis</td>
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<tr>
<td>Office of Policy</td>
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<td>10,010</td>
<td>8,000</td>
<td>-2,010</td>
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<tr>
<td>International affairs</td>
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<td>22,878</td>
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<tr>
<td>Public Affairs</td>
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<td>6,594</td>
<td>6,280</td>
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<td>Technology Transitions</td>
<td>6,876</td>
<td>8,505</td>
<td>9,080</td>
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<tr>
<td>Strategic partnerships projects (SPP)</td>
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<td>40,000</td>
<td>40,000</td>
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<tr>
<td>Subtotal, Departmental Administration (gross)</td>
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<td>423,047</td>
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### Adjustments

<table>
<thead>
<tr>
<th>Description</th>
<th>Total FY 2018</th>
<th>Total FY 2019</th>
<th>Congressional Request FY 2020</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of prior year balances (CI)</td>
<td>---</td>
<td>-2,000</td>
<td>---</td>
<td>+2,000</td>
</tr>
<tr>
<td>Use of prior year balances (OP)</td>
<td>---</td>
<td>-7,500</td>
<td>---</td>
<td>+7,500</td>
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<td>Defense related administrative support</td>
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<td>-20,065</td>
<td>-54,538</td>
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</tr>
<tr>
<td>Funding from other defense activities (CFO)</td>
<td>-126,274</td>
<td>-131,624</td>
<td>-124,554</td>
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</tr>
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<td>Total, Defense related administrative support</td>
<td>-143,000</td>
<td>-151,689</td>
<td>-179,092</td>
<td>-27,403</td>
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<tr>
<td>Total, Adjustments</td>
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<td>-161,189</td>
<td>-179,092</td>
<td>-17,903</td>
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<td>Miscellaneous revenues</td>
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<td>-98,000</td>
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<td>Total, Departmental Administration (Net)</td>
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<td>165,858</td>
<td>117,545</td>
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<tr>
<td>Office of Inspector General</td>
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<tr>
<td>-----------------------------</td>
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<td></td>
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</tr>
<tr>
<td>Office of inspector general.</td>
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<td></td>
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<td></td>
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<tr>
<td><strong>Total, Office of Inspector General</strong></td>
<td>49,000</td>
<td>51,330</td>
<td>54,215</td>
<td>+2,885</td>
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</table>

<table>
<thead>
<tr>
<th>International Affairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>International affairs.</td>
</tr>
<tr>
<td><strong>Total, International Affairs</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Title 17 - Innovative Technology Loan Guarantee Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative expenses.</td>
</tr>
<tr>
<td><strong>Subtotal, Title 17 - Innovative Technology Loan Guarantee Program</strong></td>
</tr>
<tr>
<td>Rescission of prior year balances (Gen. Prov.).</td>
</tr>
<tr>
<td><strong>Total, Title 17 - Innovative Technology Loan Guarantee Program</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tribal Energy Loan Guarantee Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative expenses.</td>
</tr>
<tr>
<td><strong>Total, Tribal Energy Loan Guarantee Program</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Advanced Technology Vehicles Manufacturing Loan Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative expenses.</td>
</tr>
<tr>
<td><strong>Total, Advanced Technology Vehicles Manufacturing Loan Program</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Federal Salaries and Expenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program direction.</td>
</tr>
<tr>
<td><strong>Total, Federal Salaries and Expenses</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weapons Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directed stockpile work</td>
</tr>
<tr>
<td>Life extension programs and major alterations</td>
</tr>
<tr>
<td><strong>Total, Life extension programs and major alterations</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stockpile systems</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total, Stockpile systems</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weapons dismantlement and disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations and maintenance.</td>
</tr>
<tr>
<td><strong>Total, Weapons dismantlement and disposition</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stockpile services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production support.</td>
</tr>
<tr>
<td><strong>Total, Stockpile services</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strategic materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uranium sustainment.</td>
</tr>
<tr>
<td><strong>Total, Strategic materials</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>U.S. DEPARTMENT OF ENERGY</th>
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<tbody>
<tr>
<td><strong>FY 2020 Statistical Table by Appropriation</strong></td>
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<tr>
<td><strong>dollars in thousands - OMB Scoring</strong></td>
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<td><strong>FY 2018</strong></td>
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<tr>
<td>Office of Inspector General</td>
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<tr>
<td>International Affairs</td>
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<tr>
<td>Title 17 - Innovative Technology Loan Guarantee Program</td>
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<td>Offsetting collections.</td>
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<td>Rescission of prior year balances (Gen. Prov.).</td>
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<td>Total, Title 17 - Innovative Technology Loan Guarantee Program</td>
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<td>Tribal Energy Loan Guarantee Program</td>
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<tr>
<td>Advanced Technology Vehicles Manufacturing Loan Program</td>
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<td>Federal Salaries and Expenses</td>
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<tr>
<td>Weapons Activities</td>
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<tr>
<td>Directed stockpile work</td>
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<tr>
<td>Life extension programs and major alterations</td>
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<tr>
<td>Total, Life extension programs and major alterations</td>
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<tr>
<td>Total, Stockpile systems</td>
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<td>Weapons dismantlement and disposition</td>
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<tr>
<td>Operations and maintenance.</td>
</tr>
<tr>
<td>Total, Operations and maintenance.</td>
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<td>Stockpile services</td>
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<tr>
<td>Production support.</td>
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<tr>
<td>Total, Stockpile services</td>
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<tr>
<td>Strategic materials</td>
</tr>
<tr>
<td>Uranium sustainment.</td>
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### U.S. DEPARTMENT OF ENERGY
FY 2020 Statistical Table by Appropriation
(dollars in thousands - OMB Scoring)

--- | --- | --- | ---
| $ | $ | $ | $

### Plutonium sustainment:
- Plutonium sustainment: 57,710
- Plutonium pit production project: 39,717
- Total, Plutonium sustainment: 97,427

### Tritium sustainment:
- Tritium sustainment: 198,152
- Domestic uranium enrichment: 60,000
- Lithium sustainment: 29,135
- Total, Tritium sustainment: 317,387

### Strategic materials sustainment:
- Strategic materials sustainment: 206,196
- Total, Strategic materials: 1,034,070

### Advanced simulation and computing:
- Advanced simulation and computing: 746,244
- Total, Advanced simulation and computing: 839,849

### Advanced manufacturing development:
- Advanced manufacturing development: 12,000
- Total, Advanced manufacturing development: 102,449

### Facility operations and target production:
- Facility operations and target production: 346,791
- Total, Facility operations and target production: 338,247

### Safety and environmental operations:
- Operations of facilities: 848,470
- Safety and environmental operations: 110,000
- Maintenance and repair of facilities: 515,138
- Total, RDT&E: 2,034,365

### Research, development, test, and evaluation (RDT&E)

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<th>Category</th>
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<tr>
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<tr>
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<tr>
<td>Facility operations and target production</td>
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<td>Plutonium sustainment:</td>
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<td>Total, Plutonium sustainment:</td>
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<td>Tritium sustainment:</td>
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<tr>
<td>Lithium sustainment:</td>
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<td>Total, Tritium sustainment:</td>
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<td>Strategic materials sustainment:</td>
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<td>Total, Facility operations and target production:</td>
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<td>Total, RDT&amp;E:</td>
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Note: The table represents statistical data for FY 2020, including comparisons with previous fiscal years, and highlights various components of the U.S. Department of Energy budget.
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<tr>
<td>Recapitulation</td>
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<tr>
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<td>703,000</td>
<td>745,000</td>
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<td>Total, Defense nuclear security</td>
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<td>690,638</td>
<td>778,213</td>
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<td>Information technology and cybersecurity</td>
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<td>221,175</td>
<td>309,362</td>
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<td>Legacy contractor pensions</td>
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<td>Use of prior year balances</td>
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<td>10,642,138</td>
<td>11,100,000</td>
<td>12,408,603</td>
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</tbody>
</table>

**Defense Nuclear Nonproliferation**

**Defense Nuclear Nonproliferation Programs**

<p>| Material management and minimization | 114,000 | +114,000 | N/A |
| HEU reactor conversion | 114,000 | +114,000 | N/A |
| Nuclear material removal | 32,925 | 0 | N/A |
| Material disposition | 183,669 | 186,608 | -39,261 | -21.5% |
| Laboratory and partnership support | 92,000 | 35,000 | -57,000 | -100.0% |
| Total, Material management &amp; minimization | 308,594 | 333,533 | +39,739 | +11.9% |</p>
<table>
<thead>
<tr>
<th>Project Description</th>
<th>FY 2018 Total Enacted Approp.</th>
<th>FY 2019 Total Enacted Approp.</th>
<th>FY 2020 Congressional Request</th>
<th>FY 2020 Request vs FY 2019 Enacted</th>
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<tr>
<td></td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>%</td>
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<tr>
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<td></td>
<td></td>
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<tr>
<td>International nuclear security</td>
<td>46,339</td>
<td>46,339</td>
<td>48,839</td>
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<td>Domestic radiological security</td>
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<td>127,433</td>
<td>90,513</td>
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<td>International radiological security</td>
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<td>78,907</td>
<td>60,827</td>
<td>-18,080</td>
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<td>Nuclear smuggling detection and deterrence</td>
<td>154,429</td>
<td>154,429</td>
<td>142,171</td>
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<td><strong>Total, Global material security</strong></td>
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<td>407,108</td>
<td>342,350</td>
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<tr>
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<td>-85,500</td>
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<td>1,949,000</td>
<td>1,993,302</td>
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<tr>
<td>Transfer to NE - Advanced Test Reactor (non-add)</td>
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<td><strong>Total, Defense Nuclear Nonproliferation</strong></td>
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<td>575,370</td>
<td>495,357</td>
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<td>Naval reactors development</td>
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<td>19-D-930, KS Overhead Piping</td>
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<td>17-D-911, BL Fire System Upgrade</td>
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<td>15-D-904, NRF Overpack Storage Expansion 3</td>
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<td>15-D-903, KL Fire System Upgrade</td>
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<td>14-D-901, Spent fuel handling recapitalization project, NRF</td>
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**Defense Environmental Cleanup**

- **Closure sites**
  - Closure sites administration: 4,889
  - River corridor and other cleanup operations: 183,692

- **Richland**
  - River corridor and other cleanup operations: 183,692
<table>
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<tr>
<td>Statistical Table by Appropriation Page 12 FY 2020 Congressional Budget Justification</td>
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<td>Savannah River risk management operations:</td>
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<tr>
<td>482,960 490,613 490,613 +1,513 +0.2%</td>
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<tr>
<td>Construction:</td>
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<td>483,460 490,719 490,719 +6,686 +1.4%</td>
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<td>Total, Savannah River risk management operations:</td>
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<td>11,249 11,249 50,000 +50,000 N/A</td>
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<td>Radioactive liquid tank waste stabilization and disposition:</td>
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<tr>
<td>20-D-402 Advanced Manufacturing Collaborative Facility (AMC):</td>
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<td>20-D-401 Saltstone Disposal Unit #10, 11, 12:</td>
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<td>662,879</td>
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<td>6,500</td>
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<td>863,192</td>
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<td>18-D-408 Waste treatment and immobilization plant - LBL/Direct feed LAW:</td>
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<td>15-D-409 Low activity waste pretreatment system, ORP:</td>
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<td>01-D-406 D, High-level waste facility:</td>
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<td>01-D-406 E, Pretreatment Facility:</td>
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| NNSA sites and Nevada off-sites: |
| Lawrence Livermore National Laboratory: |
| LLNL Excess facilities R&D: |
| 100,000 | 25,000 | 128,000 | +103,000 | +412.0% |
| Nuclear facility D & D Separations Process Research Unit: |
| 4,800 | 15,000 | 15,000 | +300 | +2.0% |
| Nevada: |
| 60,136 | 60,136 | 60,737 | +601 | +1.0% |
| Sandia National Laboratories: |
| 2,600 | 2,600 | 2,652 | +52 | +2.0% |
| Los Alamos National Laboratory: |
| 220,000 | 220,000 | 195,462 | -24,538 | -11.2% |
| Total, NNSA sites and Nevada off-sites: |
| 388,711 | 324,440 | 403,878 | +79,438 | +24.5% |

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*U.S. DEPARTMENT OF ENERGY*

**FY 2020 Statistical Table by Appropriation**

*(dollars in thousands - OMB Scoring)*

 Statistical Table by Appropriation  
Page 14  
FY 2020 Congressional Budget Justification