### Discretionary Summary By Organization

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<td>Weapons Activities</td>
<td>8,180,359</td>
<td>8,180,609</td>
<td>8,846,948</td>
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<td>1,233,840</td>
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<td>370,000</td>
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<td>21,000</td>
<td>23,000</td>
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<td>5,861,017</td>
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<td>73,218</td>
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<td>Chief Human Capital Officer</td>
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<td>24,500</td>
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<td>Hearings and Appeals</td>
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<td>Economic Impact and Diversity</td>
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<td>8,800</td>
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<td>6,013,432</td>
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<td>Office of the Secretary</td>
<td>5,008</td>
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<td>5,008</td>
<td>5,300</td>
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<td>Cost Estimating and Program Evaluation</td>
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<td>5,000</td>
<td>+5,000 N/A</td>
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<td>Strategic Partnership Projects and Revenues</td>
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<td>-78,099</td>
<td>-83,971</td>
<td>-105,471</td>
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<td>47,024</td>
<td>53,084</td>
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<td>Congressional and Intergovernmental Affairs</td>
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<td>6,200</td>
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<td>Energy Policy and Systems Analysis</td>
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<td><strong>Total, Corporate Management</strong></td>
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<td>70,317</td>
<td>61,089</td>
<td>53,951</td>
<td>-7,138 -11.7%</td>
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U.S. DEPARTMENT OF ENERGY
FY 2017 Statistical Table by Organization (dollars in thousands - OMB Scoring)
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<td>71,534</td>
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<td>203,115</td>
<td>230,377</td>
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<td>40,500</td>
<td>46,424</td>
<td>44,424</td>
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<td>Power Marketing Administrations</td>
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<td>80,368</td>
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<td><strong>27,402,312</strong></td>
<td><strong>27,391,205</strong></td>
<td><strong>29,602,691</strong></td>
<td><strong>30,240,206</strong></td>
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**Memo:** Total Discretionary by budget function

- **(Defense (050) function, non-add)**: (17,714,000) (17,711,191) (18,718,840) (19,209,478)
- **(Non-Defense (250/270) function, non-add)**: (9,688,312) (9,680,014) (10,883,851) (11,030,728)
- **(Science (250) function, non-add)**: (5,067,738) (5,132,813) (5,347,000) (5,572,069)
- **(Energy (270) function, non-add)**: (4,620,574) (4,547,201) (5,534,851) (5,458,659)

**New DOE Mandatory Funding**

- **Science University Grants**: --- --- --- 100,000 +100,000 N/A
- **21st Century Clean Transportation Plan Investments**: --- --- --- 1,335,000 +1,335,000 N/A
- **ARPA-E**: --- --- --- 150,000 +150,000 N/A
- **USEC Fund**
  - **Oak Ridge**: --- --- --- 159,416 +159,416 N/A
  - **Paducah**: --- --- --- 203,093 +203,093 N/A
- **Construction**
  - **15-U-407 On-site waste disposal facility**: --- --- --- 2,437 +2,437 N/A
  - **Paducah (PA-0040)**: --- --- --- 205,530 +205,530 N/A
- **Portsmouth**
  - **Construction**
    - **15-U-408 On-site waste disposal facility**: --- --- --- 41,168 +41,168 N/A
  - **Total, Portsmouth**: --- --- --- 255,850 +255,850 N/A
- **Pension and community and regulatory support**
  - **Oak Ridge**: --- --- --- 18,772 +18,772 N/A
  - **Paducah**: --- --- --- 2,386 +2,386 N/A
  - **Portsmouth**: --- --- --- 1,795 +1,795 N/A
  - **Total, Pension and community& regulatory support**: --- --- --- 22,953 +22,953 N/A
- **Title X uranium/thorium reimbursement program**: --- --- --- 30,000 +30,000 N/A
- **Total, USEC Fund**: --- --- --- 673,749 +673,749 N/A
- **Total, New DOE Mandatory Funding**: --- --- --- 2,258,749 +2,258,749 N/A
- **Total, DOE**: --- --- --- 27,402,312 27,391,205 29,602,691 32,498,955 +2,896,264 +9.8%
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<td><strong>National Nuclear Security Administration</strong></td>
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<td><strong>Weapons Activities</strong></td>
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<tr>
<td>Directed stockpile work</td>
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<td>Life extension programs and major alterations</td>
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<td>644,420</td>
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<td>234,168</td>
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<td>Cruise missile warhead life extension study</td>
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<td>114,615</td>
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<td>41,564</td>
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<td>W78 Stockpile systems</td>
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<td>Operations and maintenance</td>
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<td>Stockpile services</td>
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<td>Production support</td>
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<td>Research, development, test and evaluation (RDT&amp;E)</td>
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<td>Advanced certification</td>
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<td>Operations of facilities</td>
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<td>Nonproliferation construction</td>
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<td>U. S. Construction:</td>
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<td>99-D-143 Mixed Oxide (MOX) Fuel Fabrication Facility, SRS</td>
<td>-</td>
<td>-</td>
<td>340,000</td>
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<td>Global threat reduction initiative</td>
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<td>International nuclear and radiological material removal and protection</td>
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<td>Total, Global threat reduction initiative</td>
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<td>Nonproliferation and international security</td>
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<tr>
<td>International material protection and cooperation</td>
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<tr>
<td>Fissile materials disposal</td>
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<td>U.S. surplus materials disposition</td>
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<tr>
<td>Operations and maintenance</td>
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<td>U.S. plutonium disposition</td>
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<td>60,000</td>
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<td>Total, Fissile materials dispoison</td>
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<td>$</td>
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<tr>
<td>Nuclear counterterrorism and incident response program</td>
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<td>Subtotal, Defense Nuclear Nonproliferation</td>
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<td>1,921,916</td>
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<td>-1,390</td>
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<td>-26,121</td>
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<td>17-D-911, BL Fire System Upgrade</td>
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<td>-</td>
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<td>15-D-904 NRF Overpack Storage Expansion 3</td>
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<td>900</td>
<td>700</td>
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<td>08-D-190 Expended Core Facility M-290 receiving/discharge station, Naval Reactor Facility, ID</td>
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<td>Total, Construction</td>
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<td>113,320</td>
<td>121,100</td>
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<td>1,238,500</td>
<td>1,375,496</td>
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<td>Rescission of prior year balances (Gen. Prov.)</td>
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<td>-160</td>
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<td>Total, Rescissions</td>
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<tr>
<td>Total, Naval Reactors</td>
<td>1,233,840</td>
<td>1,233,840</td>
<td>1,375,496</td>
<td>1,420,120</td>
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<td>NNSA Federal Salaries And Expenses</td>
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<td>Office of the Administrator</td>
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<tr>
<td>Recission of prior year balances (Gen. Prov.)</td>
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<td>-413</td>
<td>-</td>
<td>-</td>
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<td>Total, Office of the Administrator</td>
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<td>-413</td>
<td>-</td>
<td>-</td>
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<td>Federal Salaries and Expenses</td>
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<td></td>
</tr>
<tr>
<td>Program direction</td>
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<td>370,000</td>
<td>383,666</td>
<td>412,817</td>
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<tr>
<td>Recission</td>
<td>-</td>
<td>-</td>
<td>-9,900</td>
<td>-10,900</td>
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<tr>
<td>Total, Federal Salaries and Expenses</td>
<td>370,000</td>
<td>370,000</td>
<td>363,766</td>
<td>412,817</td>
</tr>
<tr>
<td>Total, NNSA Federal Salaries And Expenses</td>
<td>369,587</td>
<td>369,587</td>
<td>363,766</td>
<td>412,817</td>
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<td>Total, National Nuclear Security Administration</td>
<td>11,399,034</td>
<td>11,396,687</td>
<td>12,526,512</td>
<td>12,884,000</td>
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</table>

### Office Of Science

**Office of Science**

<p>| Advanced scientific computing research | 541,000 | 523,411 | 621,000 | 509,180 | -111,820 | -18.0% |
| Construction: |                         |                         |                               |                      |                      |
| 17-SC 20 SC Exascale Project | - | - | - | 154,000 | +154,000 | N/A |
| Total, Construction | - | - | - | 154,000 | +154,000 | N/A |
| Total, Advanced scientific computing research | 541,000 | 523,411 | 621,000 | 663,180 | +42,180 | +6.8% |</p>
<table>
<thead>
<tr>
<th>FY 2015 Enacted Approp.</th>
<th>FY 2017 Congressional Request</th>
<th>FY 2017 vs. FY 2016 $</th>
<th>%</th>
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<tr>
<td>Basic Energy Sciences</td>
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<tr>
<td>Research</td>
<td>1,594,500</td>
<td>1,544,224</td>
<td>+5.9%</td>
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<tr>
<td>Construction</td>
<td>1,648,700</td>
<td>1,746,730</td>
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<tr>
<td>Total, Basic Energy Sciences</td>
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<td>1,849,014</td>
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<tr>
<td>Biological and environmental research</td>
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<td>609,000</td>
<td>+57,000 +9.5%</td>
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<tr>
<td>Fusion energy sciences</td>
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<tr>
<td>Research</td>
<td>317,500</td>
<td>323,000</td>
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<td>Construction</td>
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<td>438,000</td>
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<tr>
<td>Research</td>
<td>729,000</td>
<td>729,476</td>
<td>+476+0.1%</td>
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<tr>
<td>Construction</td>
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<td>449,000</td>
<td>-16,000 -3.5%</td>
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<tr>
<td>Total, High energy physics</td>
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<td>1,178,476</td>
<td>-15,524 -1.3%</td>
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<td>Nuclear physics</td>
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<td></td>
<td></td>
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<tr>
<td>Operation and maintenance</td>
<td>489,000</td>
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<td>+46,658 +8.9%</td>
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<tr>
<td>Construction</td>
<td>100,000</td>
<td>100,000</td>
<td>+0.0%</td>
</tr>
<tr>
<td>Total, Nuclear physics</td>
<td>589,000</td>
<td>535,658</td>
<td>+53,342 +9.1%</td>
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<tr>
<td>Workforce development for teachers and scientists</td>
<td>19,500</td>
<td>20,295</td>
<td>+745 +3.8%</td>
</tr>
</tbody>
</table>
| Science laboratories infrastructure | 41,500 | 41,500 | 0.00%
| Infrastructure support | 2,000 | +2,000 | N/A |
| Oak Ridge landlord... | 6,100 | 6,200 | +1,000 +16.7% |
| Total, Infrastructure support | 15,000 | 15,500 | +500 +3.3% |
| Excess facilities       |                               |                        |   |
| Construction            | 2,500                         | +2,500                 | N/A |
| Total, Construction    | 2,500                         | +2,500                 | N/A |
| Safeguards and security | 93,000                        | 103,000                | +10,000 +10.8% |

Statistical Table by Organization Page 8 FY 2017 Congressional Budget Justification
### Assistant Secretary For Energy Efficiency And Renewable Energy

#### Energy Efficiency and Renewable Energy

<table>
<thead>
<tr>
<th>Operation and maintenance</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2017 vs. FY 2016</th>
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</thead>
<tbody>
<tr>
<td><strong>Science Program direction</strong></td>
<td>183,700</td>
<td>183,700</td>
<td>185,000</td>
<td>204,481 +19,481 +10.5%</td>
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<tr>
<td><strong>Small business innovation research (SBIR)</strong></td>
<td>5,071,000</td>
<td>5,071,000</td>
<td>5,350,200</td>
<td>5,572,069 +221,869 +4.1%</td>
</tr>
<tr>
<td><strong>Adjustments:</strong></td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Subtotal, Science</strong></td>
<td>5,071,000</td>
<td>5,071,000</td>
<td>5,350,200</td>
<td>5,572,069 +221,869 +4.1%</td>
</tr>
<tr>
<td><strong>Recissions:</strong></td>
<td>3,362</td>
<td>3,362</td>
<td>3,200</td>
<td>3,200 +100.0%</td>
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<tr>
<td><strong>Total, Office Of Science</strong></td>
<td>5,067,738</td>
<td>5,132,813</td>
<td>5,347,000</td>
<td>5,572,069 +225,069 +4.2%</td>
</tr>
</tbody>
</table>

| **Renewable energy:** | | | | |
| **Solar energy** | 233,000 | 230,800 | 241,600 | 285,100 +43,500 +18.0% |
| **Wind energy** | 107,000 | 105,936 | 95,450 | 156,000 +60,550 +63.4% |
| **Water power** | 61,000 | 59,999 | 70,000 | 80,000 +10,000 +14.3% |
| **Geothermal technologies** | 55,000 | 54,288 | 71,000 | 99,500 +28,500 +40.1% |
| **Total, Renewable energy** | 456,000 | 451,023 | 478,050 | 620,600 +142,550 +29.8% |

| **Energy efficiency:** | | | | |
| **Advanced Manufacturing** | 200,000 | 194,175 | 228,500 | 261,000 +32,500 +14.2% |
| **Federal energy management program** | 27,000 | 27,000 | 27,000 | 43,000 +16,000 +59.3% |
| **Building Technologies** | 172,000 | 168,153 | 200,500 | 289,000 +86,500 +44.1% |
| **Weatherization & intergovernmental program** | | | | |
| **Weatherization assistance program** | 225,000 | 175,915 | 225,000 | 279,900 +53,900 +24.0% |
| **NREL Site-Wide Facility Support** | 97,000 | 94,830 | 100,950 | 105,500 +4,550 +4.5% |
| **Total, Weatherization assistance program** | 193,000 | 193,000 | 215,000 | 230,000 +15,000 +7.0% |
| **State energy grants** | 50,000 | 50,000 | 50,000 | 70,000 +20,000 N/A |
| **Cities, counties, & communities energy program** | 70,000 | 70,000 | 70,000 | 100,000 N/A |
| **Total, Weatherization & intergovernmental program** | 243,000 | 243,000 | 265,000 | 300,000 +35,000 +13.4% |
| **Total, Energy efficiency** | 642,000 | 632,328 | 721,000 | 919,000 +196,000 +27.5% |

| **Crosscutting Innovation Initiatives** | | | | |
| **Total, Corporate support** | 181,000 | 181,750 | 176,000 | 195,900 +22,900 +13.0% |

| **Corporate support:** | | | | |
| **Program direction** | 160,000 | 160,750 | 155,000 | 170,900 +15,900 +10.3% |
| **Strategic programs** | 21,000 | 21,000 | 28,000 | 28,000 +7,000 +33.3% |
| **Total, Corporate support** | 181,000 | 181,750 | 176,000 | 195,900 +22,900 +13.0% |

| **Facilities and infrastructure (NREL O&M)** | | | | |
| **National renewable energy laboratory (NREL)** | 56,000 | 56,000 | 62,000 | 92,000 +30,000 +48.4% |

| **Subtotal, Energy Efficiency and Renewable Energy** | 1,937,000 | 1,863,652 | 2,073,000 | 2,898,400 +825,400 +39.8% |

| **Adjustments:** | | | | |
| **Use of prior year balances** | | -720 | | |
| **Subtotal, Energy Efficiency and Renewable Energy** | 1,937,000 | 1,863,652 | 2,073,000 | 2,898,400 +825,400 +39.8% |

| **Recissions:** | | | | |
| **Rescission of prior year balances (Gen. Prov.)** | -13,065 | -13,065 | | |
| **Rescission of prior year balances (Gen. Prov.)** | -9,740 | -9,740 | -3,806 | +3,806 +100.0% |
| **Total, Recissions** | -22,805 | -22,805 | -3,806 | +3,806 +100.0% |

| **Total, Energy Efficiency And Renewable Energy** | 1,914,195 | 1,840,847 | 2,069,194 | 2,898,400 +829,206 +40.1% |

(1) Federal Energy Assistance grants, non-add:
- (243,000) (243,000) (265,000) (230,000)
(2) EERE RDD&D, non-add:
- (1,671,195) (1,597,847) (1,804,194) (2,668,400)
## Office Of Electricity Delivery & Energy Reliability

**Electricity Delivery & Energy Reliability**  
Clean energy transmission and reliability  
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<td>$146,975</td>
<td>$17,500</td>
<td>$20,640</td>
<td>$262,300</td>
<td>$20,640</td>
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Smart grid research and development ................................................................. $15,439  
Cybersecurity for energy delivery systems .......................................................... $45,999  
Energy storage ........................................................................................................... $12,000  
Transformer resilience and advanced components ................................................... $6,000  
National electricity delivery ..................................................................................... $6,000  
State Distribution-level Reform Program ................................................................ $27,606  
Infrastructure security & energy restoration .......................................................... $6,000  
State energy assurance ............................................................................................... $6,000  
Program direction ....................................................................................................... $27,606  
Grid Institute .............................................................................................................. $14,000  
Subtotal, Electricity Delivery & Energy Reliability .................................................. $147,306  

Rescissions:  
Rescission of prior year balances (Gen. Prov.) ...................................................... $331  

Total, Electricity Delivery & Energy Reliability ...................................................... $146,975

## Assistant Secretary For Fossil Energy

**Fossil Energy Research And Development**  
Fossil Energy Research and Development (OLD)  
Coal  
CCS and power systems  
Carbon Capture .......................................................................................................... $88,000  
Carbon Storage .......................................................................................................... $100,000  
Advanced Energy Systems ........................................................................................ $103,000  
Cross Cutting Research ............................................................................................. $49,000  
NETL Coal Research and Development ................................................................... $50,000  
NETL Research and Operations ................................................................................. $10,000  

Total, CCS and Power Systems .................................................................................. $400,000  

Total, Coal ................................................................................................................... $400,000  

Natural Gas Technologies ............................................................................................. $25,121  
Unconventional Fossil Energy Technologies from Petroleum - Oil technologies ........ $4,500  
Program Direction ....................................................................................................... $119,000  
Plant and Capital Equipment ..................................................................................... $15,782  
Fossil Energy Environmental Restoration ................................................................ $5,897  
Special Recruitment Programs ................................................................................... $700  

Subtotal, Fossil Energy Research and Development .................................................. $571,000  

Rescissions:  
Rescission of prior year balances (Gen. Prov.) ........................................................ $10,413  

Total, Fossil Energy Research and Development(OLD) ............................................. $560,587  

Fossil Energy Research and Development (NEW)  
CCS and Advanced Power Systems  
Carbon Capture .......................................................................................................... $170,352  
Carbon Storage .......................................................................................................... $90,875  
Advanced Energy Systems ........................................................................................ $47,800  
Crosscutting Research and Analysis ......................................................................... $59,350  

Total, CCS and Advanced Power Systems ................................................................ $368,377  

Fuel Supply Impact Mitigation ..................................................................................... $26,500  
NETL Research and Operations ................................................................................ $76,070  
NETL Infrastructure ................................................................................................... $68,055  
Program Direction ....................................................................................................... $60,998  

Subtotal, Fossil Energy Research and Development .................................................. $600,000  

Use of prior year balances......................................................................................... $360,000  

Total, Fossil Energy R & D (NEW) ............................................................................. $960,000  

Clean Coal Technology  
Rescission of prior year balances .............................................................................. $6,600  

Petroleum Reserves:  
Naval Petroleum & Oil Shale Reserves 1/  
Naval petroleum & oil shale reserves ...................................................................... $19,950  

Statistical Table by Organization  
Page 10  
FY 2017 Congressional Budget Justification
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1/ NPR includes new BA and proceeds from NPR 3 asset sale. These proceeds available during FY 15 for purchase of replacement property. Any unused proceeds returned to Treasury as miscellaneous receipts.

Office Of Nuclear Energy

Nuclear Energy

Research and Development

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Idaho facilities management

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<td>31,297</td>
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<td>73,534</td>
<td>71,534</td>
<td>73,534</td>
<td>76,473</td>
<td>+2,939              +4.0%</td>
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<td>73,534</td>
<td>71,534</td>
<td>73,534</td>
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<td>Other Defense Activities</td>
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<td>203,152</td>
<td>230,377</td>
<td>237,912</td>
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<td>-37</td>
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<td>203,115</td>
<td>203,115</td>
<td>230,377</td>
<td>237,912</td>
<td>+7,535              +3.3%</td>
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<td>Office of inspector general</td>
<td>40,500</td>
<td>40,500</td>
<td>46,424</td>
<td>44,424</td>
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<td></td>
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<td>Total, Office Of Inspector General</td>
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<td>46,424</td>
<td>44,424</td>
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<td>89,710</td>
<td>83,600</td>
<td>78,929</td>
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<td>7,220</td>
<td>6,900</td>
<td>6,000</td>
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<td>90,500</td>
<td>84,929</td>
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<td>-16,131</td>
<td>-17,100</td>
<td>-18,169</td>
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<td>73,534</td>
<td>76,473</td>
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<td>Offsettings (for PPW)</td>
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<td>-66,500</td>
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<tr>
<td>Total, Southwestern Power Administration</td>
<td>122,666</td>
<td>122,666</td>
<td>136,223</td>
<td>140,898</td>
<td>+4,675              +3.4%</td>
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<tr>
<td>Operations and maintenance</td>
<td>15,174</td>
<td>15,174</td>
<td>19,279</td>
<td>13,866</td>
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<td>63,000</td>
<td>63,000</td>
<td>73,000</td>
<td>83,000                          +10,000             +13.7%</td>
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<tr>
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<td>31,089</td>
<td>31,089</td>
<td>31,932</td>
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<td>3,431</td>
<td>3,431</td>
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<td>Subtotal, Southeastern Power Administration</td>
<td>122,666</td>
<td>122,666</td>
<td>136,223</td>
<td>140,898</td>
<td>+4,675              +3.4%</td>
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<tr>
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<td>-5,934</td>
<td>-5,934</td>
<td>-8,288</td>
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<td>-10,000                         N/A</td>
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<td>-7,492</td>
<td>-7,492</td>
<td>-7,574</td>
<td>-5,986                          +1,588              +21.0%</td>
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<tr>
<td>Total, Southeastern Power Administration</td>
<td>122,666</td>
<td>122,666</td>
<td>136,223</td>
<td>140,898</td>
<td>+4,675              +3.4%</td>
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<td>-29,938</td>
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<td>-53,000</td>
<td>-63,000</td>
<td>-73,000                         +10,000             +15.9%</td>
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<td>11,400</td>
<td>11,057</td>
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<td>Construction and rehabilitation (CROM)</td>
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<td>86,645</td>
<td>58,374</td>
<td>62,442</td>
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<td>81,958</td>
<td>80,901</td>
<td>76,697</td>
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<td>-5,197</td>
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<td>-74,448</td>
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<td>-5,300</td>
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<td>-36,645</td>
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<td>93,372</td>
<td>93,372</td>
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<td>228</td>
<td>232</td>
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<td>61,807</td>
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<td>68,968</td>
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<td>-23,587</td>
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<tr>
<td><strong>Total, Federal Energy Regulatory Commission</strong></td>
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<td>-17,325</td>
<td>-23,587</td>
<td>-9,426</td>
<td>+14,161</td>
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