

## **Department of Energy's Office of Science FY16 Budget Summary**

For Fiscal Year 2016, the Administration is requesting \$5.33 billion in funding for the Department of Energy's Office of Science. This is an increase of \$272.7 million, and a 5.4 percent increase over the FY15 enacted level of \$5 billion.

According to the FY16 DOE budget justification, the DOE- Office of Science is "the largest federal sponsor of basic research in the physical sciences, supporting 22,000 researchers at 17 National laboratories and more than 300 universities."

### **The FY16 budget proposes the following funding levels for DOE Office of Science program areas:**

- **High Energy Physics (HEP)** would receive \$788 million, an increase of \$22 million, or 2.9 percent, above the FY15 level of \$766 million.
- **Nuclear Physics (NP)** would receive \$624.6 million, an increase of \$29.1 million, or 4.9 percent, above the FY15 level of \$595.5million.
- **Fusion Energy Sciences (FES)** would be funded at \$420 million, a decrease of \$47.5 million, or 10.2 percent, below the FY15 level of \$467.5 million. Fusion Energy Sciences is the clear outlier in the DOE-OS budget, since it's the only program that did not receive a requested increase in the budget. Some in the scientific community are attributing this decline in request for funding due to the conflict between funding for domestic programs and funding the International Thermonuclear Experimental Reactor (ITER). Apparently, there is a struggle underway in the Administration and in Congress to determine how to pay for both domestic programs and ITER.
- **Biological and Environmental Research (BER)** would receive \$612 million, an increase of \$20 million, or 3.4 percent, over the FY15 level of \$592 million.
- **Basic Energy Sciences (BES)** would be funded at \$1.8 billion, a healthy increase of \$116 million, or 6.7 percent, over the FY15 level of \$1.7 billion. According to the February 2, 2015, "Science Insider," this increase in requested funding will be used to pay for "planned upgrades of the Advanced Photon Source at Argonne National Laboratory and the Linac Coherent Light Source at the SLAC National Laboratory."
  - **Energy Frontier Research Centers.** Within the BES program, \$55.8 million was requested for the Energy Frontier Research Centers (EFRCs), which is \$44.2 million below the FY15 enacted level of \$100 million.

- **Advanced Scientific and Computing Research** would be funded at \$621 million, a healthy increase of \$80 million, or 14.8 percent, over the FY15 level of \$541 million. Clearly, ASCR is the big winner in this DOE-OS budget. This requested increase in funds will be used to pay for exascale computers and advance climate modeling and biomedical applications.
- **Science Laboratories Infrastructure** would receive \$113.6 million, an increase of \$34 million, or 42.7 percent, above the FY15 level of \$79.6 million.
- **Workforce Development for Teachers and Scientists** would receive \$20.5 million, an increase of \$1 million, or 5.1 percent, above the FY15 amount of \$19.5 million.

### Department of Energy – Energy Programs

- **Advanced Research Projects Agency-Energy (ARPA-E):** The FY16 request for ARPA-E is \$325 million, an increase of \$45 million, or 16.1 percent, over the FY15 level of \$280 million.
- **Energy Efficiency and Renewable Energy (EERE):** The FY16 request for EERE is \$2.72 billion, a significant increase of \$808.9 million, or 42.3 percent. According to the DOE budget justification, this increase in funds will support “sustainable transportation technologies, renewable energy generation technologies, and development of manufacturing technologies.”
- **Fossil Energy:** The FY16 budget request for Fossil Energy is \$842 million. This level of funding includes \$560 million for Fossil Energy Research and Development. Fossil Energy R&D received \$560 million in funding in FY15.
- **Nuclear Energy:** The FY16 budget request for Nuclear Energy is \$907.5 million, which is an increase of \$74.2 million, or 8.9 percent above the FY15 enacted level of \$833.5 million.