Budgets and Some Laboratory Business

Community Advisory Council June 14, 2018

David Manning • George Clark Kevin Fox • Erick Hunt





Agenda

- Overview of the Federal Budget Cycle: David Manning
- Budget Update: George Clark
- Procurement & Contracts: Kevin Fox
- Strategic Partnerships: Erick Hunt

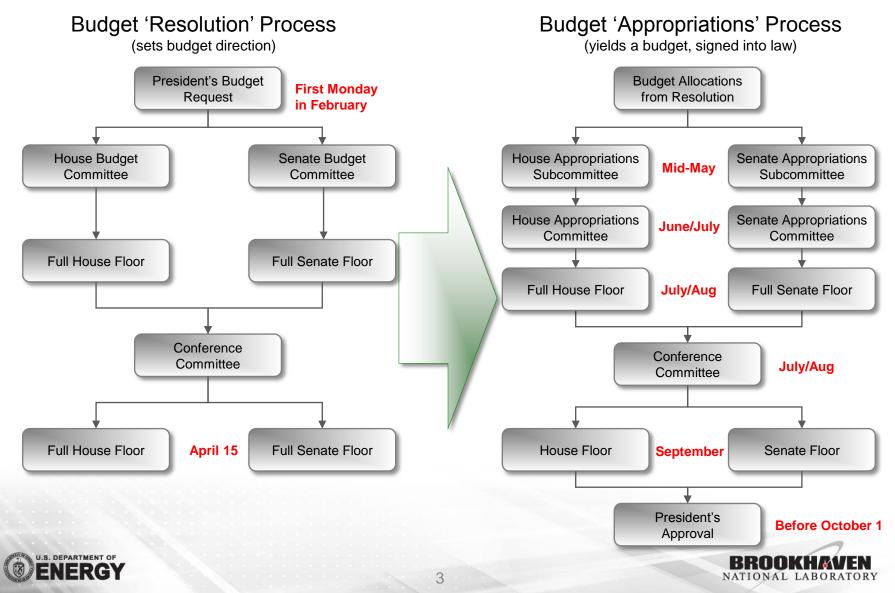








The Federal Budget Process



Primary Budget-process Influencers

DOE Leadership (Secretary, CFO, others)

> Assistant Secretaries and Deputy Assistant Secretaries

White House Political Office

DOE Program Managers

President

Office of Management & Budget Leadership **Vice President**

Office of Management & Budget Analysts

Congressional Members

Congressional Committees

Congressional Staff





Budget Update

George Clark

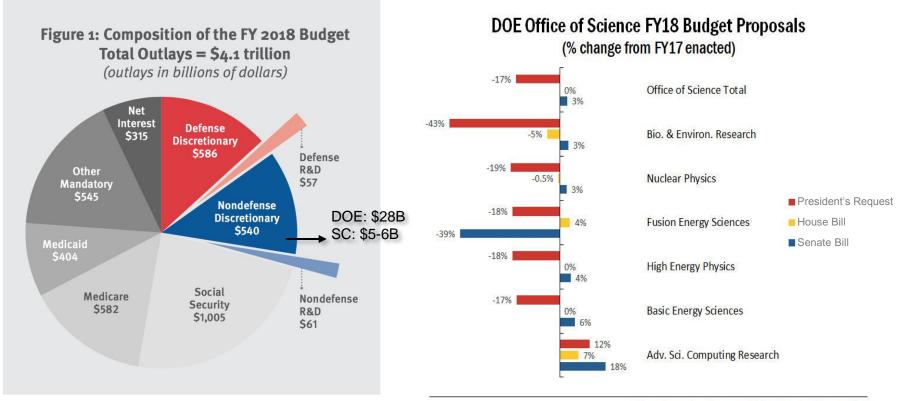
Chief Financial Officer, Associate Lab Director for Business Services





Congressional Budget Process

(Includes President's Budget Request)



Source: Budget of the United States Government FY 2018. © 2017 AAAS

American Institute of Physics | aip.org/fyi





Current Status

FY 2018 Congressional budget and funding update

- House and Senate passed a federal funding bill and the President signed into law the Omnibus bill in March 2018, avoiding a government shutdown, and funding the government through September 2018.
- Omnibus bill language increases DOE Office of Science's budget to \$6.2B (+15%) and contained increases for Brookhaven—a welcomed relief versus initial Presidential Budget Request reductions of -15% to -17%.
 - Nuclear Physics: +\$13M.
 - High Energy Physics: +\$3M.
 - Basic Energy Sciences funding includes Center for Functional Nanomaterials (\$21M) and long-term stewardship (\$7M) support.
 - Infrastructure (GPP and SLI) funding:
 - Funding for biolabs \$4.9M, B801 hot cells \$8.5M, core facility revitalization \$30M.





Current Status (continued)

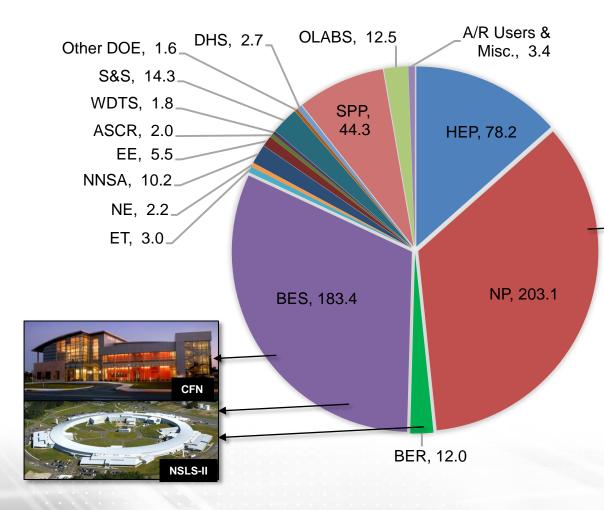
Latest News: Draft FY 2019 House spending bills boost DOE budget

- Draft spending bills advanced recently in the House, offering initial indications of the outlook for federal science funding in FY 2019.
- The picture emerging is largely positive, with House Appropriators seeking increases for the DOE Office of Science.
- Proposed increase: 5% to \$6.3 Billion.
- Note: Design funding for Science and User Support Center (SUSC) of \$2M.





FY 2017 Funding Profile



Key figures

Lab Operating Funding: \$581.7M DOE Funding: \$517.3M DOE as %Total Lab Funding: ~ 89% SPP (Non-DOE/Non-DHS) Funding: \$45.9M DHS Funding: \$2.7M SPP/DHS as %Total Lab Funding: ~ 8%

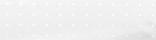
BNL is primarily funded—approximately 85%—by the Office of Science



Acronyms decoded

ASCR: Advanced Scientific Computing Research BES: Basic Energy Sciences BER: Biological & Environmental Research DHS: Department of Homeland Security DOE: Department of Energy EE: Efficiency and Renewable Energy HEP: High Energy Physics NE: Office of Nuclear Energy NNSA: Nonproliferation & National Security NP: Nuclear Physics S&S: Safeguards and Security SPP: Strategic Partnership Projects WDTS: Workforce Development for Teachers and Scientists

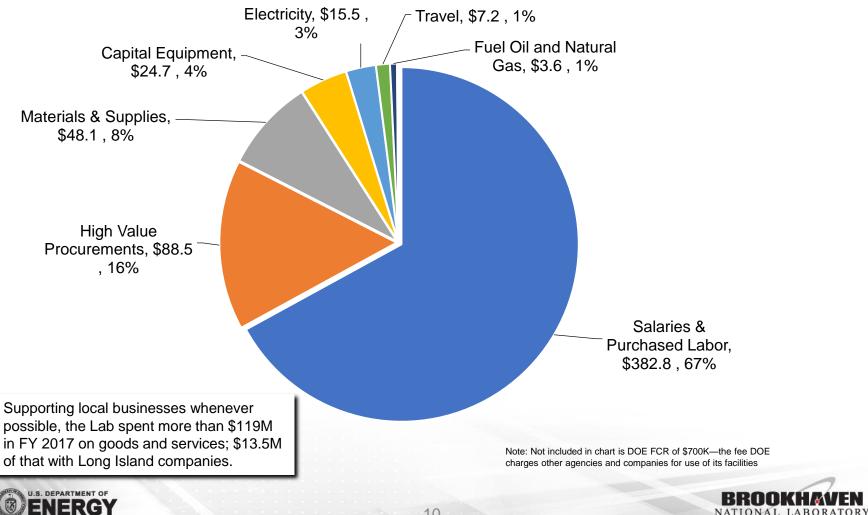
NATIONAL LABORATORY



I.S. DEPARTMENT OF

FY 2017 Cost Categories (\$M)

(How we spend our funding)



10

New York State Support

Research & Development at Brookhaven: \$80M

- National Synchrotron Light Source II
 - High-energy X-ray (HEX) Beamline: \$25M
 - Cryogenic Electron Microscope (CryoEM): \$15M
- RHIC and Electron Ion Collider
 - Cornell-Brookhaven Energy-Recovery-Linac Test Accelerator (CBETA): \$25M
- Computational Sciences Initiative
 - Center for Data-Driven Discovery (C3D): \$15M

Other Positive News:

Brookhaven Train Station: \$20M











Summary: Significant Impacts For the Local Community

- The Lab strengthens Long Island's position as a center of innovation in sustainable energy, biotech, and other fields crucial to the growth of New York State's economy.
- Lab employee salaries, wages, and fringe benefits accounted for approximately \$375 million, or 66% of its total budget.
- Supporting local and state businesses whenever possible, the Lab spent more than \$119 million in 2017 on goods and services, including \$13.5 million with Long Island companies.



Fast Facts

- The only multidisciplinary national lab in the Northeast
- One of New York State's largest scientific research institutions
- More than 2,500 employees
- 3,000 visiting facility users
- 2,000 guest researchers
- Fiscal year 2017 budget of \$582M





Procurement & Contracts

(Doing Business with Brookhaven)

Kevin Fox

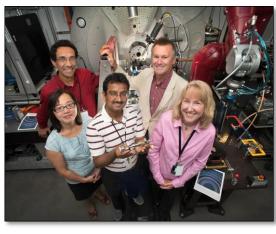
Procurement & Property Management Interim Division Head





Business Volume FY 2017 Procurement Commitments

Total	\$ 119,192,187
Total New York State	\$ 26,079,345
Nassau County	\$ 1,507,402
Suffolk County	\$ 12,045,559









What Does Brookhaven Buy?

Brookhaven buys almost anything a small town buys—and scientific equipment too:

- High-tech scientific equipment (microscopes, beamlines)
- Apparel/safety/misc. equipment
- Audio-visual equipment
- Chemicals
- Communications equipment
- Computers & peripherals—all types
- Construction, paving
- Copier maintenance
- Document shredding
- Electronics equipment

- Janitorial/plant equipment
- Service, maintenance equipment
- Hardware, tools, and fasteners
- Office furniture
- PC boards, printed circuit boards, electronics fabrication
- Raw metals
- Laboratory, medical, and office supplies
- HVAC, electrical, and carpentry supplies
- Wireless (RF) equipment

Note: We rarely buy some services.

- Advertising and public relations
- Insurance services
- Automotive vehicles
- Legal and medical services
- Food
- Military products/services
- Healthcare services

- Photography services
- Illegal products
- Printing
- Information technology services
- Web design and hosting We have some of these capabilities in house, others we don't buy at all.

What Do I Do Next?

Sign up for FedBizOpps "Watch List"

 Automatic notifications of government and BNL solicitations <u>www.fedbizopps.gov</u> (Note: You can filter notifications for Brookhaven only)

Brookhaven Lab Contact

 David Paveglio, Deputy Manager, Procurement & Property Management Division

dpaveglio@bnl.gov

Monitor

 BNL Small Business website (<u>http://www.bnl.gov/ppm/SDB/</u>) If you know someone who may be interested in these opportunities, please pass on this info (and feel free to take a picture of this slide).





Partnering with Brookhaven

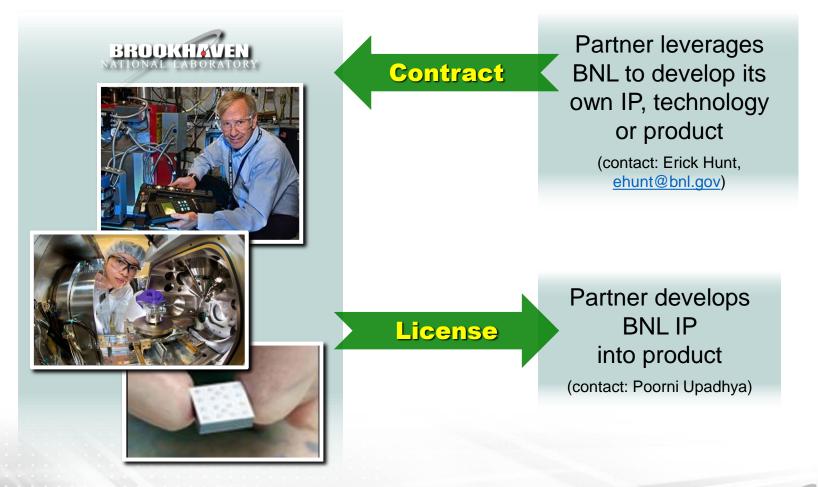
Erick Hunt

Manager, Research Partnerships





Two Ways to Partner With Brookhaven





Types of Partnering Agreements

Cooperative Research And Development Agreement (CRADA)

Technical Services Agreement (TSA) Funds-In Agreement Strategic Partnerships Projects (SPP)

Interagency Agreement (IAG)

Agreements for Commercializing Technology





Fuel Cell Testing

Funding for Testing of Solid Oxide Fuel Cells

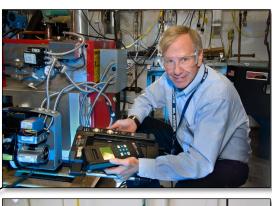
- Setup testbed for EU fuel cells (extreme high efficiency 60% fuel to electricity)
 - Short term working with: BlueGen, HPEnergy, Con Edison (Microsoft)
 - Long-term potential on performance testing for residential/commercial/data center applications/military facilities

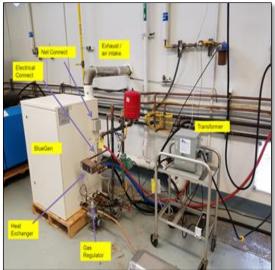
(Con Edison, NYSERDA, National Grid & DoD)















Same person!

The Bottom Line

- The federal budget process is complex and two-fold, with "resolution" and "appropriations" processes.
- Our prospects for FY 2018 and FY 2019 are brighter (and we continue to monitor).
- The Laboratory purchased \$13.5 million in goods and services from companies on Long Island in FY 2017. There are several ways to explore opportunities to do business with Brookhaven.
- Thanks to several processes, the Lab is open for partnering on select research efforts.



