Departmental Administration
Proposed Appropriation Language

For salaries and expenses of the Department of Energy necessary for departmental administration in carrying out the purposes of the Department of Energy Organization Act (42 U.S.C. 7101 et seq.), $497,781,000, to remain available until September 30, 2024, including the hire of passenger motor vehicles and official reception and representation expenses not to exceed $30,000, plus such additional amounts as necessary to cover increases in the estimated amount of cost of work for others notwithstanding the provisions of the Anti-Deficiency Act (31 U.S.C. 1511 et seq.): Provided, That such increases in cost of work are offset by revenue increases of the same or greater amount: Provided further, That moneys received by the Department for miscellaneous revenues estimated to total $100,578,000 in fiscal year 2023 may be retained and used for operating expenses within this account, as authorized by section 201 of Public Law 95–238, notwithstanding the provisions of 31 U.S.C. 3302: Provided further, that the sum herein appropriated shall be reduced as collections are received during the fiscal year so as to result in a final fiscal year 2023 appropriation from the general fund estimated at not more than $397,203,000.

Explanation of Change

In FY 2023, the Request will allow DOE to provide historic support for underserved communities, including $34 million for the Office of Economic Impact and Diversity to play a critical role in implementing the Department's Justice40 efforts and equity action plan. The Request invests $62 million through the Office of International Affairs to accelerate international climate progress, deploy American innovation, and support economic prosperity at home and abroad. The Request includes $18 million for the Net Zero World initiative and $4 million to increase multilateral engagement. The Office of Management is requesting $16 million for electric vehicles and charging infrastructure. To address vulnerabilities identified after the December 2020 SolarWinds intrusion, the Department is requesting $93 million for cyber response and recovery management through the Office of the Chief Information Officer for the DOE enterprise.

Departmental Administration
($K)

FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted
166,000	166,000	397,203	+231,203

Overview

The Departmental Administration (DA) appropriation funds 14 management and mission support programs that have enterprise-wide responsibility for administration, accounting, budgeting, contract and project management, human resources management, congressional and intergovernmental liaison, international cooperation and coordination, information management, life-cycle asset management, legal services, energy jobs, energy justice, workforce diversity and equal employment opportunity, ombudsman services, small business advocacy, sustainability, arctic energy coordination, and public affairs.

DA supports Strategic Partnership Projects that are reimbursed by customers of the DOE laboratories; and receives Miscellaneous Revenues that that offset the costs of the overall program of work. Additionally, the DA program of work operates by executing Defense-Related Administrative Support (DRAS) funding, appropriated within Other Defense Activities (ODA). This accounts for the support DA programs provide for the Defense portion of DOE.

Highlights of the FY 2023 Budget Request

In FY 2023 the DA Budget increase of $231.2 million reflects a dedication to strengthen enterprise-wide management and mission support functions, per the Administration's priorities, as the highlights below outline:

- **Office of the Secretary (OSE):** Funding will continue to support leadership and policy direction at the Department.

- **Office of the Chief Financial Officer (CFO):** Funding will continue to support corporate business systems to meet and comply with updated cyber security requirements and initiatives; fund operation in a Cloud environment; continued implementation of the Robotic Process Automation (RPA) initiative across the CFO activities and enhance systems supporting enterprise business processes and systems.

- **Economic Impact & Diversity (ED):** Funding will support ED's role as central coordinator and departmental subject matter expert on equity and justice, to include technical assistance to minority businesses, Minority Serving Institutions, and third-party evaluation of Justice40 benefits. Funding continues support for direct oversight of Civil Rights/Employment Equal Opportunities (EEO) to support increased Civil Rights Enforcement, Compliance, and Technical Assistance for the DOE enterprise (except for NNSA), and to directly oversee the affirmative employment and diversity and inclusion functions for the DOE enterprise (except for NNSA and the PMAs). Staffing level supports EEO consolidation, energy justice, diversity, equity, and inclusion activities.

- **International Affairs (IA):** Funding will support the Administration's efforts to accelerate international climate progress, deploy American innovation, and support economic prosperity at home and abroad and continue to pursue international climate and clean energy cooperation through key multilateral and bilateral forums with the objective to reduce global greenhouse gas emissions, create good paying American jobs, enhance U.S. competitiveness, protect those most vulnerable to climate change. IA's investment in the Net Zero World Initiative, DOE's signature contribution to the Presidents Build Back Better World Initiative, provides comprehensive technology and investment roadmaps to help key large emitters across the globe achieve net zero emissions by 2050.

- **Office of the Chief Information Officer (OCIO):** Funding will support OCIO's continued modernization of DOE's IT infrastructure and IT services to provide the capacity, flexibility, and resiliency required of a modern and secure enterprise. Proposed modernization initiatives will continue to reduce cybersecurity risk through improved cybersecurity technology and automation, scale capacity commensurate with demand, and establish IT enterprise capabilities. Further, this will allow for commercial/managed IT service implementation with engineered and inherent cybersecurity capabilities and provide foundational requirements for enhanced cybersecurity tools, products, and capabilities. Vulnerabilities identified by the SolarWinds intrusion incident of December 2020, will

continue to be addressed through funds specifically dedicated to cyber incident response and recovery management in the FY 2023 Request.

- **Management (MA):** Funding will support MA's mission fulfillment, and expansion of the Department's electric vehicle fleet and charging infrastructure as part of a transition from GSA-leased gas-powered vehicles to GSA-leased Zero Emission Vehicles.

- **Office for Human Capital (HC):** Funding will support current operational levels, maintain HC's vital customer service mission, and support ongoing initiatives related to developing more agile, cost-effective operations and modernizing hiring practices to improve the DOE workforce's ability to deliver mission outcomes. Additional funding will support hiring increases related to Bipartisan Infrastructure Law, build upon Talent Teams and dedicated resources to provide HR and hiring managers with new tools and capabilities that are needed to effectively support mission needs.

- **Office of Policy (OP):** Funding supports performance of priority analyses and policy work across the Department's activities, focused on technology; infrastructure; state, local, and tribal activities; energy jobs, and supports the Arctic Energy Office.

- **Artificial Intelligence Technology Office (AITO):** Funding will strengthen DOE AI capabilities and applications, invest in AI systems R&D, and build multi-sector collaboration that will maintain American AI leadership.

Bipartisan Infrastructure Law

Up to one-tenth of one percent of Bipartisan Infrastructure Law (BIL) funding as appropriated may be transferred to DA for management and mission support. In FY 2023, the DA offices will support BIL implementation by, in part, ensuring that staffing, IT, and other needs are promptly addressed and that equity considerations are integrated into all levels of implementation.

<p align="center">**Departmental Administration**
Funding by Congressional Control ($K)</p>

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2022 Request vs. FY 2021 Enacted
Departmental Administration				
Office of the Secretary	5,582	5,582	6,642	+1,060
Congressional & Intergovernmental Affairs	5,000	5,000	7,142	+2,142
Chief Financial Officer	53,590	53,590	62,283	+8,693
Economic Impact & Diversity	10,169	10,169	34,140	+23,971
International Affairs	26,825	26,825	62,141	+35,316
Artificial Intelligence and Technology Office	2,500	2,500	2,608	+108
Chief Information Officer	140,200	140,200	233,731	+93,531
Subtotal, DA	**243,866**	**243,866**	**408,687**	**164,821**
Other Departmental Administration				
Management	54,358	54,358	86,317	+31,959
Project Management Oversight and Assessments	13,000	13,000	13,550	+550
Chief Human Capital Officer	24,918	24,918	35,366	+10,448
Office of Small & Disadvantaged Business Utilization	3,386	3,386	3,825	+439
General Counsel	35,000	35,000	43,722	+8,722
Office of Policy	7,000	7,000	31,073	+24,073
Public Affairs	4,000	4,000	5,936	+1,936
Office of Technology Transitions	17,639	17,639	0	-17,639
Subtotal, Other DA	**159,301**	**159,301**	**219,789**	**+60,488**
Strategic Partnership Projects (SPP)	40,000	40,000	40,000	-
Total, Departmental Administration (Gross)	**443,167**	**443,167**	**668,476**	**+225,309**
Defense-Related Administrative Support (DRAS)	-183,789	-183,789	-170,695	+13,094
Subtotal, Departmental Administration	**259,378**	**259,378**	**497,781**	**+238,403**
Miscellaneous Revenues				
Revenues Associated with SPP	-40,000	-40,000	-40,000	-
Other Revenues	-53,378	-53,378	-60,578	-7,200
Subtotal, Miscellaneous Revenues	**-93,378**	**-93,378**	**-100,578**	**-7,200**
Total, Departmental Administration (Net)	**166,000**	**166,000**	**397,203**	**+231,203**

<p align="center">**Outyear Funding ($K)**</p>

	FY 2023 Request	FY 2024	FY 2025	FY 2026	FY 2027
Total, Departmental Administration	**397,203**	**406,000**	**415,000**	**425,000**	**435,000**

Defense-Related Administrative Support

Overview

Beginning in FY 1999, funding has been provided within the Other Defense Activities appropriation to offset expenses that support defense-related activities. This offset addresses the significant level of administrative support performed within DA offices in support of the Department's defense-related programs. The services provided by the offices within DA are performed without distinction between defense and non-defense related activities and provide benefit for all headquarters organizations proportionally.

Defense-Related Administrative Support
Funding ($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request
Defense-Related Administrative Support	-183,789	-183,789	-170,695

Strategic Partnership Projects

Overview

The Strategic Partnership Projects (SPP) program provides funding to DOE's multi-purpose field offices and National Laboratories to finance the cost of products and services requested by non-DOE users, both foreign and domestic. The products and services provided by the Department under this program generally are not available from alternate sources and are reimbursable work for non-federal entities where the sponsor is precluded by law from providing advance funding.

The SPP program includes a portion of the Department's Foreign Research Reactor Spent Fuel Program. This program, which involves the receipt and storage of foreign research reactor spent fuel, is provided for in the SPP program only to the extent of revenues provided.

The benefits for this program are continued access to the Department's Laboratory complex, which satisfies the needs of our non-federal customers. Performance evaluation for this work is the responsibility of our customers. The success of this program is indicated by the steady influx of business from the targeted groups.

Strategic Partnership Projects
Funding ($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted
Consolidated Service Center	-	-	21,745	+21,745
Argonne National Laboratory	100	100	-	-100
Brookhaven National Laboratory	275	275	-	-275
Lawrence Berkeley Laboratory	3,308	3,308	-	-3,308
Oak Ridge National Laboratory	12,227	12,227	-	-12,227
Idaho Operations Office	1,000	1,000	2,000	+1,000
National Energy Technology Laboratory	150	150	150	-
National Renewable Energy Laboratory	500	500	500	-
NNSA Complex	8,918	8,918	4,305	-4,613
Richland Operations Office	100	100	100	-
Savannah River Ops Office	6,700	6,700	11,200	+4,500
Washington DC HQ Undistributed	6,722	6,722	-	-6,722
Total, Strategic Partnership Projects	**40,000**	**40,000**	**40,000**	**-**

Revenues Associated with Strategic Partnership Projects
Funding ($K)

Description of FY 2022 Activities	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request
Consolidated Service Center	-	-	21,745

- Argonne National Laboratory - Work with universities and state and local governments that are precluded by law in giving a cash advance; and cover anticipated work with Small Business Innovation Research federal awarded sponsors.
- Brookhaven National Laboratory - Primarily to cover anticipated work with small businesses on Small Business Innovation Research/Small Business Technology Transfer and Research SPP. In addition, to cover work with universities and state & local governments that are precluded by law to provide a cash advance.
- Lawrence Berkeley National Laboratory
  - Additional university support for Composite for Basic Science Research;
  - Independent Technical Assistance for Management and Treatment of Groundwater and Drinking Water;
  - Fabricate the components in the ALICE (A Large Ion Collider Experiment)-USA scope and ALICE ITS (Inner Tracking System) upgrade;
  - University of Washington for comprehensive Identification of Worm and Fly Transcription Factors; and
  - National Laboratory High Energy Physics for Particle Data Group.
  - 21st Century Indiana Energy Policy Development Task Force and Comprehensive Study.
- Oak Ridge National Laboratory support for Early-Time Signatures of a Nuclear Detonation in Urban Areas; Tennessee REVV Program; Tip-Enhanced Raman Spectroscopy (TERS) as a Screening Tool; Understanding Cellular Transformation and Chemical Responses Linking Type 2 Diabetes and Amyotrophic Lateral Scelerosis; Neutron Scattering Studies of Human AChE; Computational Support for Problem Structure and Quantum Advantage; Joint Faculty Agreements; General Employee Loan Agreements; etc.
- SLAC National Accelerator Laboratory support to U.S./Japan Cooperative Program in High Energy Physics;
- Oak Ridge Institute for Science and Education (ORISE) support to/for Radiation Emergency Assistance Center/Training courses, and Beryllium Lymphocyte Proliferation Testing; and
- Pacific Northwest National Laboratory (PNNL) work with universities and state and local governments in the areas of Biomedical, High Performance Computing, Grid Modernization, Security and Incident Response, Nuclear and Reactor Technologies, Advance Material Development, Marine Sciences research and development, Build Back Better solicitations, and State Clean Energy fund, Advance Material Development, and Advance Manufacturing.

Description of FY 2022 Activities	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request
Idaho Operations Office	1,000	1,000	2,000
• Work with universities state and local governments.			
• To cover anticipated work with small businesses on Small Business Innovation Research/Small Business Technology Transfer and Research SPP.			
National Energy Technology Laboratory	150	150	150
• Work with state and local governments.			
National Renewable Energy Laboratory	500	500	500
• Work with state and local governments.			
NNSA Complex	8,918	8,918	4,305
• Consolidated Nuclear Solutions (CNS) National Security Complex support to long-term supply contracts with foreign governments to provide uranium fuel;			
• CNS - NA-23 Material Management & Minimization Nuclear Material Removal program - cost of recovery operations subsequently reimbursed by foreign customers;			
• CNS support for Universities precluded by law from providing advance funding.			
• Sandia National Laboratory support to state & local governments; and			
• Lawrence Livermore National Laboratory support to state and local governments			
Richland Operations Office	100	100	100
• Work with Universities, State, and Local governments.			
Savannah River Operations	6,700	6,700	11,200
• Savannah River National Laboratory support to universities & institutions, state and local governments, and non-profit organizations; and			
• Savannah River site support for the receipt and management of foreign research reactor spent nuclear fuel			
Washington DC HQ Undistributed	6,722	6,722	-
• Funding kept in reserve to support SPP activities			
Total, Revenues Associated with Strategic Partnership Projects	**40,000**	**40,000**	**40,000**

Miscellaneous Revenues

Overview

The Departmental Administration account receives Miscellaneous Revenues from the following:

- Revenues received from the sale of by-products that have no cost associated with the Departmental Administration program of work. These items are by-products of activities funded by other on-going Departmental programs and are collected as Miscellaneous Revenues. Included in this estimate are revenues collected from the Reimbursable Work program for Federal Administrative Charges.
  - Federal Administrative Charges – Revenues collected from other federal agencies as well as non-federal entities for reimbursable activity conducted by the Department in accordance with full-cost recovery policy.
  - Nuclear Production Office – Revenues generated from shipment of surplus Highly Enriched Uranium and Low Enriched Uranium for use in foreign research and test reactors.
  - Pittsburgh Naval Reactors Office – The Department of Navy reimburses the Pittsburgh Naval Reactors Office for the nuclear material burn-up while the core is in operation and when residual nuclear material is removed during refueling and defueling of the core. While nuclear material burn-up is relatively consistent across years, major fluctuations in this line item are attributable to the refueling and defueling schedules, which are based on ship availability and quantity of nuclear material left in the cores.
  - Other Revenues, including Timber Sales – Estimate based on current rate of collections for various miscellaneous revenues collected at all Department sites, including timber sales at Savannah River Site.

Miscellaneous Revenues
Funding ($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs. FY 2021 Enacted
Revenues Associated with Strategic Partnership Projects	**-40,000**	**-40,000**	**-40,000**	**-**
Other Revenues	**-53,378**	**-53,378**	**-60,578**	**-7,200**
Federal Administrative Charges	-29,467	-29,467	-30,803	-1,336
Nuclear Production Office	-4,044	-4,044	-4,044	-
Pittsburgh Naval Reactors Office	-15,167	-15,167	-20,931	-5,764
Other Revenues, including Timber Sales	-4,700	-4,700	-4,800	-100
Total, Miscellaneous Revenues	**-93,378**	**-93,378**	**-100,578**	**-7,200**

Office of the Secretary
Program Direction

Overview

The Office of the Secretary (OSE) provides leadership and policy direction to the Department of Energy (DOE) in its commitment to advance U.S. national security and economic growth through transformative science and technology innovation that promotes affordable and reliable energy through market solutions and meets our nuclear security and environmental cleanup challenges. The funding supports OSE staff in achieving the Department's priorities of Combating the Climate Crisis, Creating Clean Energy Union Jobs, and Promoting Energy Justice. The Department also plans to continue to make progress in achieving each of its strategic goals through continued investments in scientific research, technology innovation, nuclear security, arctic energy coordination and environmental cleanup.

The FY 2023 Budget Request of $6,642,000 is a $1,060,000 increase above the FY 2021 Enacted Budget, supports up to 33 full time equivalent employees and administrative services and support. The additional resources support interagency coordination on efforts to address the climate crisis. It also will enable the Department of Energy to increase coordination with climate-focused programs at other agencies to maximize the benefits of U.S. government investments and take advantage of synergies between agencies to better utilize public dollars. Funding will support staff and coordinated stakeholder engagement.

Office of the Secretary
Funding ($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted ($)	FY 2023 Request vs FY 2021 Enacted (%)
Washington Headquarters					
Salaries and Benefits	4,952	4,952	5,012	60	**1%**
Climate Change Coordination	0	0	1,000	1,000	0
Travel	529	529	529	0	0
Support Services	0	0	0	0	0
Other Related Expenses	101	101	101	0	0
Total, Program Direction	**5,582**	**5,582**	**6,642**	**1,060**	**19%**
Federal FTEs	**33**	**33**	**33**	**0**	**0**
Other Related Expenses					
Training	6	6	6	0	0
Other Services	95	95	95	0	0
Total, Other Related Expenses	**101**	**101**	**101**	**0**	**0**

Explanation of Changes Table
Office of the Secretary
Funding ($K)

Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Program Direction $5,582	**$6,642**	**+$1,060**
Salaries and Benefits $4,952	**$5,012**	**+$60**
Funding supports up to 33 FTEs in the Office of the Secretary, Deputy Secretary, Office of the Under Secretary, and the Office of the Under Secretary for Science and Energy.	Continued funding supports payroll costs of up to 33 FTEs in the Office of the Secretary, Deputy Secretary, Office of the Under Secretary for Infrastructure (S3), and the Office of the Under Secretary for Science and Innovation (S4).	+$60 Assumes 4.6% pay raise, FERS increase, within grade increases, promotions, and awards allocation,
Climate Change Coordination $0	**$1,000**	**+$1,000**
N/A	Funding supports staff and coordinated stakeholder engagement for interagency coordination on efforts to address the climate crisis.	+$1,000 Funding supports staff and coordinated stakeholder engagement for interagency coordination on efforts to address the climate crisis.
Travel $529	**$529**	**$0**
Funding for the Office of the Secretary, Deputy Secretary, Under Secretary, Under Secretary for Science and Energy, and Special Assistants to travel in support of the Department's mission.	Continued funding for the Office of the Secretary, Deputy Secretary, Under Secretary for Infrastructure, and the Under Secretary for Science and Innovation, as well as Special Assistants to travel in support of the Department's mission.	No change
Other Related Expenses $101	**$101**	**$0**
Funding supports training and course registration cost for OSE employees for essential training activities and support for security clearance investigations	Continued funding supports training and course registration cost for OSE employees for essential training activities and support for security clearance investigations.	No change

Congressional and Intergovernmental Affairs
Program Direction

Overview

The Office of Congressional and Intergovernmental Affairs (CI) delivers accurate and timely communication of Administration and Departmental objectives and activities with Congress, state, local, and Tribal governments, and other stakeholder organizations.

In FY 2023, CI will direct, manage, and ensure timely coordination between Departmental organizations and their external stakeholders. This includes timely notifications to Members of Congress, Governors, Mayors, and Tribal officials on Department of Energy (DOE) matters of specific interest including pending awards/grants/contracts that may affect the states, Tribal nations, congressional districts, and other constituencies. CI will ensure the Department provides timely and complete responses to inquiries and requests for information. In addition, CI will engage with Governors, staff, local elected and appointed officials, and consult Tribal leaders on DOE activities and decisions; and to elicit concerns and interests for consideration in DOE decision processes.

CI will recommend legislative strategies and engagements in alignment with Administration policy and DOE program initiatives. This includes both monitoring and developing legislative activity on behalf of the Department, as well as working with Congress to define and advance the Administration's position on pending legislation. CI will prepare Departmental officials for Congressional hearings, briefings, and meetings, as well as gubernatorial and Tribal consultations and events. This includes directing and coordinating the preparation of congressional testimony, transcripts, pre- and post-hearing questions and answers, and other information provided for the record.

Highlights of the FY 2023 Budget Request

The Department requests $7,142,000 in FY 2023 for CI to maintain operational levels consistent with Departmental needs and Secretarial priorities. Funding will ensure CI can continue to provide accurate and timely communications of Administration and Departmental activities and objectives to Congress, State, local and Tribal governments, and external stakeholders.

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted ($)	FY 2023 Request vs FY 2021 Enacted (%)
Washington Headquarters					
Salaries and Benefits	3500	3500	5166	+1666	48%
Travel	30	30	300	+270	900%
Support Services	181	181	390	+209	115%
Other Related Expenses	1289	1289	1286	-3	-.23%
Subtotal, Washington Headquarters	**5,000**	**5,000**	**7,142**	**+2,142**	**43%**
Total, Program Direction	**5,000**	**5,000**	**7,142**	**+2,142**	**43%**
Federal FTEs	**24**	**24**	**31**	**+7**	**29%**
Support Services					
Management Support					
Print and electronic subscription services	46	46	75	+29	63%
Contractor Support	130	130	300	+170	131%
Other Support Services	5	5	15	+10	200%
Total, Support Services	**181**	**181**	**390**	**+209**	**115%**
Other Related Expenses					
Training	0	0	50	+50	-
Energy IT Services	254	254	201	-53	-21%
Working Capital Fund	1035	1035	1,035	-	-
Other Services	0	0	0	-	-
Total, Other Related Expenses	**1289**	**1,289**	**1286**	**-3**	**-.23%**

Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Program Direction $5,000,000	**$7,142,000**	**+$2,142,000**
Salaries and Benefits $3,500,000	**$5,166,000**	**+$1,666,000**
Provides funding for 24 FTEs to include salaries and benefits.	Provides funding for 31 FTEs to include salaries and benefits, pay raise adjustments, and performance award pool.	FY 2023 Request increases FTE level closer to historic level required to adequately perform mission and objectives and includes new IGEA Regional Specialist FTE positions as advised by the Office of the Secretary and reflected in approved staffing plan. Assumes 4.6% pay increase in civilian salaries, FERS increase, and supplemental funds for performance award pool increase in FY 2023.
Travel $30,000	**$300,000**	**+$270,000**
Funding for travel requirements to support the Department's engagements with congressional, intergovernmental, and other stakeholders.	Funds travel at historic level required to support Departmental engagements as well as additional activities essential to new IGEA Regional Specialist positions	Increase funds the additional travel critical to performing IGEA Regional Specialist job duties as liaisons between the Department and localities.
Support Services $181,000	**$390,000**	**+$209,000**
Most costs are related to the acquisition of annual subscriptions to information sources essential to ensure staff is well-informed of congressional and intergovernmental activities and interests, and contractors required for support roles.	Funds essential administrative and executive support services, costs associated with background investigations, and access to subscription platforms critical to staff performance	Increase expands subscription services to add new staff and continues critical contractor support services at the required level of effort.
Other Related Expenses $1,289,000	**$1,286,00**	**-3,000**
Funds support business costs associated with the Department's Working Capital Fund; IT equipment and support.	Continuation of FY 2022 WCF and EITS activities. Additional funding allocated toward staff training.	Decrease due to rate adjustments from the OCIO cost model.

Overview

The Office of the Chief Financial Officer (OCFO) is responsible for the management and financial integrity of Department of Energy (DOE) programs, activities, and resources and for developing, implementing, and monitoring DOE-wide policies and systems for budget formulation and execution, finance and accounting, internal controls and financial policy, corporate financial systems, and strategic planning. The OCFO:

- Serves as the principal advisor to the Secretary and other DOE officials on matters relating to the Department's financial resources and performance management.
- Oversees the formulation, execution, analysis, and financial integrity of the Department's annual and multi-year budget, including the Bipartisan Infrastructure Law and other supplemental spending bills.
- Develops and maintains an integrated agency-wide financial accounting system.
- Prepares reports including a description and analysis of the status of financial management in the annual financial statements, audit reports, the Digital Accountability and Transparency Act of 2014 (DATA Act) reporting, and internal accounting and administrative controls systems at DOE.
- Manages the activities and execution of DOE's Working Capital Fund (WCF) and prepares annual budget documentation.
- Serves as the enterprise risk management office to provide data for risk by systematically identifying, assessing, and managing strategic, financial, and programmatic risks across the DOE.
- Develops program performance measures, manages the performance tracking system, and serves as the Performance Improvement Officer, the Department's principal advocate for improved performance and management.
- Coordinates and leads the development and implementation of the DOE Strategic Plan, Agency Priority Goals (APGs), and the requirements of the GPRA Modernization Act, including quarterly assessment meetings.
- Manages and supports the administration and the operations and maintenance of the Department-wide enterprise corporate business systems (e.g., Foreign Travel Management System, Data Warehouse).
- Leads the implementation of program management policies and strategies for developing highly qualified program managers required by the *Program Management Improvement Accountability Act of 2016 (PMIAA)*.

Highlights of the FY 2023 Budget

The Fiscal Year (FY) 2023 Request is $62,283,000, an increase of $8,693,000 from the FY 2022 Annualized CR budget. It maintains the FY 2022 level of full time equivalent (FTE) employees at 230 including the 4.6% pay raise for federal employees and Federal Employees Retirement Systems (FERS) benefits. With the additional funding, OCFO will continue to support the effective management and ensure the financial integrity of DOE programs, activities, and resources by developing, implementing, and monitoring DOE-wide policies and systems in budget formulation and execution, finance and accounting, internal controls and financial policy, corporate financial systems, and strategic planning.

In FY 2023, OCFO is requesting additional funds for corporate business systems to meet and comply with updated cyber security requirements and initiatives; operate in a Cloud environment; and enhance systems supporting enterprise business processes, including agency financial report automation and audit management projects. The requested funding will allow upgrades to the MoveLINQS Government Relocation Accounting System and the Departmental Audit Reporting Tracking System (DARTS), as well as permit continued implementation of the Robotic Process Automation (RPA) initiative within OCFO and DOE.

In FY 2023, the Program Management Improvement Officer (PMIO) continues implementation of OMB's five-year PMIAA Strategy to enhance the role of program managers, including training and educational opportunities, improved career paths and career opportunities, a plan to recruit and retain highly qualified individuals, collecting and disseminating best practices and lessons learned, and common templates and tools to support improved data collection and analysis for project and program management and oversight purposes. The OCFO will continue to oversee the implementation of DOE Policy (P) 410.3, *Program Management*, which was issued September 23, 2021, and established expectations and principles for program management – as well as program evaluation and evidence-based decision making – to accomplish the Agency's

mission and goals efficiently and effectively per various statutory, regulatory, administrative, and agency requirements. The OCFO will also oversee the rollout of the Department's Competency Model and Career Path for Program Manager, both of which were developed and informed based on input from Program Management subject matter experts across the Agency.

<div align="center">**Program Direction**</div>
<div align="center">**Funding ($K)**</div>

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted ($)	FY 2023 Request vs FY 2021 Enacted (%)
Washington Headquarters					
Salaries and Benefits	32,770	32,770	36,202	+3,432	+10%
Travel	100	100	100	-	0%
Support Services	9,724	9,724	14,035	+4,311	+44%
Other Related Expenses	10,996	10,996	11,946	+950	9%
Total, Program Direction	**53,590**	**53,590**	**62,283**	**+8,693**	**+16%**
Federal FTEs - OCFO	**230**	**230**	**230**	**-**	**0%**
Federal FTEs - WCF	**22**	**22**	**22**	**-**	**0%**
Support Services					
Management Support					
Corporate Business Systems	4,300	4,300	6,635	+2,335	+54%
System Support/Other Support Services	5,424	5,424	7,400	+1,976	+36%
Total, Support Services	**9,724**	**9,724**	**13,035**	**+4,311**	**+44%**
Other Related Expenses					
Energy IT Services	2,100	2,100	3,100	+1,000	+48%
Security Clearance Investigations	100	100	100	-	0%
Training	300	300	225	-75	-25%
Interagency Agreements	345	345	370	+25	+7%
Working Capital Fund	8,151	8,151	8,151	-	0%
Total, Other Related Expenses	**10,996**	**10,996**	**11,946**	**+950**	**9%**

Program Direction

Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Salaries and Benefits $32,770,000	**$36,202,000**	**+$3,432,000**
Funds 230 full-time equivalent employees (FTE).	Funds 230 FTEs.	Increase reflects a 4.6% pay raise for federal employees and FERS benefits increase in FY 2023, as well as in grade and next grade promotions.
Travel $100,000	**$100,000**	**$0**
Supports travel requirements for 230 FTE and minimally projected Congressional travel.	Supports travel requirements for 230 FTE and estimated Congressional travel.	Reflects current travel requirements for the CFO, Deputy CFO and Congressional staff.
Support Services $9,724,000	**$14,035,000**	**+$4,311,000**
The FY 2021 Corporate Business Systems (CBS) budget funds the operation and maintenance, and cyber security requirements of the DOE enterprise financial, procurement, and human capital business systems, including the Data Warehouse, Foreign Travel Management System, automaton of the agency financial report, Robotic Processing Automation (to meet the PMA Cross-Agency Priority (CAP) goal), and the Audit automation tasking system. Funding is also provided for technical system support and other services (to include PMIAA).	The FY 2023 Corporate Business Systems (CBS) budget funds the operation and maintenance, and cyber security requirements of the DOE enterprise financial, procurement, and human capital business systems, including the Data Warehouse, Foreign Travel Management System, Robotic Processing Automation project (to meet the PMA CAP goal), and upgrades to the MoveLINQS Government Relocation Accounting System and the Departmental Audit Reporting Tracking System (DARTS). Funding is also provided for technical system support and other services (to include PMIAA).	Increase reflects operating in a Cloud environment, continued implementation of the Robotic Processing Automation project; upgrades to the MoveLINQS Government Relocation Accounting System and the Departmental Audit Reporting Tracking System (DARTS); and continued work on the budget formulation system.
Other Related Expenses $10,996,000	**$11,946,000**	**+$950,000**
Funding supports employee training, interagency agreements, IT desktop technical support requirements, security clearance investigations, and WCF.	Funding supports IT desktop technical support requirements including remote staff support, employee training, interagency agreements, security clearance investigations, and WCF.	Increase reflects changes to the costs for interagency agreements and the IT support services for remote staff.

Office of Economic Impact and Diversity
Program Direction

Overview

Established in 1979, the Office of Economic Impact and Diversity (ED) is tasked with increasing minority participation in energy sector programs, pursuant to Section 641, Title VI, Part 3 of the National Energy Conservation Policy Act of 1978. ED also ensures compliance with Titles VI and VII of the Civil Rights Act of 1964; Title IX of the Education Amendments Act of 1972; and other anti-discrimination statutes.

Pursuant to its legislative mandate, ED advises the Secretary on (1) the effect of energy policies, regulations, and other actions of the Department of Energy (DOE) and its components on minorities and minority business enterprises, and on ways to ensure that minorities are afforded an opportunity to participate fully in the energy programs of the Department; and (2) Departmental compliance with civil rights and equal employment opportunity (EEO) laws, regulations, and related directives and Executive Orders (EO's) that prohibit workplace discrimination and discrimination in programs receiving federal financial assistance from DOE, ensuring integration of EEO into DOE policies and decisions, overseeing intake and processing of complaints of discrimination; and (3) promoting a diverse DOE workforce and inclusive work environment.

Highlights of the FY 2023 Budget Request

The Department requests $32 million in FY 2023, an increase of $22 million from the FY 2021 Enacted budget, for ED to continue driving initiatives to achieve energy equity and environmental justice across the DOE complex and labs in accordance with Biden-Harris Administration directives and priorities. These overarching initiatives include ensuring 40% of the overall benefits of DOE's investments are targeted to help disadvantaged communities (Justice40 Initiative); helping to create climate and clean energy jobs and accelerate clean energy business creation in historically marginalized and overburdened communities; providing technical assistance (TA) to minority serving institutions (MSIs) and minority business enterprises (MBEs) to increase their participation in DOE programs and opportunities; augmenting training programs geared towards helping the historically disadvantaged population, including the formerly incarcerated, those in impoverished communities, and our minority stakeholders; and identifying and eradicating systemic barriers to DOE opportunities and benefits for people of color and other underserved groups.

In FY 2023, ED will recruit new subject matter experts and support staff to: (1) better advise the Secretary on energy policies; (2) enhance technical assistance being provided to MSIs and MBEs; (3) support oversight of DOE strategic action plans; and (4) support agency-wide implementation of equity, environmental and energy justice activities across the Department. ED's staff will increase from 69 as budgeted in FY 2022 to 90 full-time equivalent (FTEs) employees in FY 2023 to include 5 FTEs to support equity, environmental and energy justice (EEEJ) and Justice40 Initiative technical assistance to DOE program offices, 8 FTEs to support increased Civil Rights/EEO Enforcement, Compliance, and TA, as well as barrier analysis support for the DOE enterprise, and 5 FTEs to support ED's strategic analysis and administration.

In FY 2023, ED's Office of Energy Justice Policy and Analysis will execute a research, policy analysis, and technical assistance program that includes third party evaluations, to advance EEEJ initiatives and activities, including the Justice40 Initiative. Research will seek to determine the effects (including socio-economic and environmental effects) of national energy programs, policies, and regulations of the Department on minority and other disadvantaged communities. Consistent with ED's mandate, this office will continue research on relevant DOE and other federal policies that lessen energy burdens for disadvantaged individuals and communities and increase access to clean energy technology. Policy analysis and technical assistance efforts will include collaboration with DOE program offices to develop programs that accelerate the adoption of clean energy technologies in historically marginalized populations. This office will provide technical assistance and support across DOE in accordance with ED's congressional mandate. These efforts will coordinate EEEJ initiatives and activities more effectively within DOE, the National Laboratories, with other Federal partners, and external stakeholders.

ED's Office of Diversity, Equity, Inclusion, and Accessibility (ODEIA) will, in coordination with relevant stakeholders, oversee implementation of DOE's DEIA strategic plan that currently includes 31 crosscutting departmental goals. This office will continue developing competencies for diversity and inclusion training, including unconscious bias mitigation within talent processes, building and sustaining inclusive work environments, and developing DEIA training modules specifically for SES and supervisors/managers. The new office will support the priorities of the Administration, as outlined in the Federal Government-wide DEIA Strategy and ensure that DEIA is a priority component of DOE's management agenda and strategic planning.

In FY 2023, ED will continue leading DOE's Equity in Energy initiative to expand the inclusion and participation of minorities, women, veterans, and formerly incarcerated persons, across all department programs. DOE supports this national initiative through Minority Education (STEM enhancement), Workforce Development, and Training (MEWT) related projects and by creating partnerships with federal, state, non-profit, and private agencies engaged in sustaining our nation's energy sector and, thereby, promoting a more secure and stable U.S. economy. ED will engage with stakeholders to increase awareness of and commitment to the principles of equity and diversity as they relate to the DOE workplace and to recipients of DOE financial assistance.

In FY 2023, ED's Office of Minority Programs (OMP) will amplify execution of its statutory mandates as outlined in Public Law 95-619 that includes providing technical assistance to minority educational institutions and MBEs to enable these enterprises and institutions to participate in the research, development, demonstration, and contract activities of the Department. FY 2023 funding will allow OMP to increase MEWT projects in disadvantaged communities within STEM and energy fields. These projects will support hundreds of minority students and faculty members in Historically Black Colleges and Universities (HBCUs), Hispanic-Serving Institutions (HSIs), Asian American and Native American Pacific Islander-Serving Institutions (AANAPISI), and other MSIs. Pursuant to Public Law 95-619 FY 2023 OMP will provide technical assistance programs that encourage, promote, and assist minority business enterprises in establishing and expanding energy-related business opportunities which are in disadvantaged communities and that can provide clean energy jobs to workers in these communities.

In FY 2023, ED's Office of Civil Rights & Equal Employment Opportunity (OCR-EEO) will directly oversee EEO complaint processing for the entire DOE enterprise (except for the National Nuclear Security Administration (NNSA)),[1] as well as directly oversee the affirmative employment and diversity and inclusion functions for the entire DOE enterprise (except NNSA, Power Marketing Administrations), and three collateral duty locations, and will also expand external civil rights enforcement and compliance activities in the areas of Limited English Proficiency, TA, and will stand up a pre-award assurance pilot to evaluate grant applications received by the Department. OCR-EEO implements the statutory requirement of administering departmental policies, practices, and procedures under Title VI and VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act, Sections 501/504 of the Rehabilitation Act of 1973, the Genetic Information Nondiscrimination Act, Title IX of the Education Amendments of 1972, the Age Discrimination Act, and related statutes and EO's which prohibit discrimination, including those that prohibit discrimination in programs and activities that receive federal financial assistance from DOE.

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[1] The Department notes that the National Nuclear Security Administration (NNSA) Office of Civil Rights processes NNSA EEO complaints.

Program Direction Funding ($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted ($)	FY 2023 Request vs FY 2021 Enacted (%)
Economic Impact and Diversity					
Salaries and Benefits	6,031	6,031	17,011	10,980	182.06%
Travel	190	190	300	110	57.89%
Support Services	2,310	2,310	10,354	8,044	348.23%
Other Related Expenses	1,638	1,638	4,335	2,697	164.65%
Total, Program Direction	**10,169**	**10,169**	**32,000**	**21,831**	**214.68%**
Federal FTEs	**37**	**37**	**90**	**53**	**143.24%**
Contractor Headcount	**4**	**4**	**4**	**0**	**0**
Support Services					
Office of Minority Programs (OMP)	1,442	1,442	4,500	3,058	212.07%
Office of Civil Rights & Equal Employment Opportunity	868	868	921	53	6.11%
EEO Field Site Services	0	0	583	583	100%
Office of Energy Justice Policy/Analysis	0	0	4,000	4,340	100.00%
Office of Diversity, Equity, & Inclusion	0	0	350	350	100%
Total Support Services	**2,310**	**2,310**	**10,354**	**8,384**	**362.94%**
Other Related Expenses					
Working Capital Fund	1,038	1,038	2,800	1,762	169.75%
Energy Information Technology System	600	600	1175	575	95.83%
Training	0	0	360	360	100%
Total, Other Related Expenses	**1,638**	**1,638**	**4,335**	**2,697**	**164.65%**

FY 2021 Enacted Level	FY 2023 Request	Explanation of Changes FY 2021 Enacted Level vs FY 2023 Request
$10,169 Program Direction	**$32,000**	**$21,831**
$6,031 Salaries and Benefits	**$17,011**	**$10,980**
Provides funding for 37 FTEs who directly support the ED mission.	Provides funding for 90 FTEs who directly support ED's execution of its statutory mission.	
$190 Travel	**$300**	**$110**
Provides funding for travel associated with outreach activities related to the launch of the national Equity in Energy initiative and increase in compliance/enforcement activities of the Office of Civil Rights and Diversity. Mission outreach and regulatory activities undertaken with increased coordination with Agency programmatic activities.	Provides funding for travel associated with energy justice, stakeholder outreach, and ED's Equity in Energy initiative outreach activities, as well as increased compliance/enforcement activities of the Office of Civil Rights and Diversity.	
$2,310 Support Services	**$10,354**	**$8,044**

$1,442 -- Funding supports OMP's Minority Education and Workforce Development Training program (MEWT) focused on, but not limited to:
 	
   o Minority Education: Increasing the participation of students enrolled in MSIs across the nation in STEM.
 	
   o Workforce/Pipeline Analysis: research project to identify and quantify energy related economic opportunities, challenges, and recommendations for increased minority access and inclusion.
 	
   o Workforce Development: providing formerly incarcerated individuals with knowledge, skills, and training to improve their opportunities for employment in the energy sector.
	$4,500 -- Funding supports OMP's Minority Education and Workforce Development Training Program (MEWT) focused on, but not limited to:
	
	   o $2,250 - Supports Minority Serving Institutions Technical Assistance (TA) that will strengthen STEM capabilities of MSIs and support increasing the pipeline of minority students participating DOE programs and supporting the U.S. energy sector.
	   o $2,500 - Supports Minority Businesses Technical Assistance and Workforce Development Training: technical assistance will include innovative training and projects that complements and/or enhances Minority Business Enterprises (MBEs) participation in DOE programs and opportunities.
		$3,058 -- Funding increase enables ED to execute new funding opportunities in support of MEWT projects that provide technical assistance to MSIs and MBEs to increase opportunities to participate in DOE programs and the clean energy industry.

o Technical Assistance/Workforce Training: technical assistance for innovative projects that support educational/business activities which complements and/or enhances workforce training to meet the nation's need for job creation in diverse communities in the high-energy growth sector. o Capacity Building: Strengthening the STEM capabilities of MSIs by collaborating with the Department's national laboratories and scientific facilities.		
$868 - Office of Civil Rights and EEO: Provides funding for EEO support services contracts for DOE Headquarters related to EEO investigative services and draft final agency decisions, as well as docket control and administrative services.	$921 - Continuation of FY '21 activities. Also provides funding for civil rights database and EEO demographic database in support of barrier analysis efforts.	$53
	$4,000,000 - Funding supports contracting 3rd-party evaluation for the massive undertaking of measuring, tracking, and reporting DOE's Justice40 benefits to disadvantaged communities for the Department's over 120 covered programs.	$4,000
	$350 - Funding supports implementation of DOE's DEIA strategic goals, including consultation and technical assistance to program offices for execution of DOE and organizational plans.	$350
$1,638 Other Related Expenses	**$4,335**	**$2,697**
Funds Working Capital Fund (WCF), Energy IT Services (EITS), and staff training and development, and other services for 37 FTE.	Continuation of FY 2022 support for WCF, EITS, and staff training for 90 FTEs.	

Office of International Affairs

The Department of Energy's (DOE) Office of International Affairs (IA) has primary responsibility for setting international energy policy and leading all bilateral and multilateral energy collaborations involving the Secretary, Deputy Secretary, and other DOE senior leadership, including connecting DOE's program offices and its 17 National Labs to partner countries. IA is also responsible for protecting critical U.S. industries and technological innovation by tracking and investigating all foreign investment in U.S. energy companies or other firms with energy interests, as well as foreign contracts with the National Labs.

Building on the work of FY 2022, in FY 2023, IA will pursue international energy cooperation through key bilateral and multilateral forums, with the objective to accelerate the transition to net zero greenhouse gas emissions, create good paying American jobs, enhance U.S. competitiveness on critical energy technologies, address the distributional impacts of foreign policy decisions (consistent with the Foreign Policy for the Middle Class agenda) and build out the capacity and execution of the President's Build Back Better World initiative.

Highlights of the FY 2023 Budget Request

IA's priorities for the coming year are to:

1) Strengthen DOE's key bilateral relationships, regional and multilateral platforms to accelerate the transition to a global clean energy economy and expand market opportunities for U.S. clean energy goods and services;
2) Provide technical and diplomatic assistance to partners to ensure their energy and national security and accelerate the transition to net-zero emissions;
3) Reinforce critical supply chains via the Unites States and its partners to ensure we can cost-effectively deploy the technologies needed for the clean energy transition and avoid weaponization of those materials and technologies in the future; and
4) Track and investigate foreign investment in the U.S. and contracts with national labs to protect U.S. national security interests.

IA's FY 2023 Request of $62,141,000, (an increase of $35,316,000 from the FY 2021 Enacted), will support IA's program funding to support the above priorities. This request would also support approximately 14 additional FTEs above FY 2021 Enacted. Of this Request:

- $18 million will support the Net Zero World Initiative, DOE's signature contribution to the President's Build Back Better World Initiative, which will provide comprehensive technology and investment roadmaps paired with technical assistance to help strategically important large emitters decarbonize their economies by 2050.
- $8 million will support technical assistance via key multilateral organizations to reassert U.S. leadership and influence and ensure that each institution's work aligns with the U.S. energy and climate agenda.
- $2.5 million for clean energy deployment and commercialization in emerging economies.
- $1 million for market development.

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	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted ($)	FY 2023 Request vs FY 2021 Enacted (%)
Energy Security and Clean Energy Initiatives	**1,025**	**1,025**	**1,025**	**-**	**0%**
Technical Assistance	**1,485**	**1,485**	**2,485**	**+1,000**	**+67%**
Market Development			**1,000**	**+1,000**	**NEW**
Clean Energy Deployment and Commercialization in Emerging Economies			**2,500**	**+2,500**	**NEW**
Multilateral Engagement			**8,000**	**+8,000**	**NEW**
Net Zero World/Build Back Better World			**18,000**	**+18,000**	**NEW**
U.S.-Israel Energy Center of Excellence	**4,000**	**4,000**	**4,000**	**-**	**0%**
BIRD Energy Program	**2,000**	**2,000**	**2,000**	**-**	**0%**
TOTAL PROGRAM SUPPORT	**8,510**	**8,510**	**39,010**	**+30,500**	**+358%**
Salaries and Benefits	**13,530**	**13,530**	**17,341**	**+3,811**	**+28%**
Travel	**400**	**400**	**925**	**+525**	**+131%**
Support Services					
Subscriptions/Publications	100	**100**	125	+25	+25%
Management Support Services	85	**85**	100	+15	+18%
Other Related Expenses					
Working Capital Fund	3,000	**3,000**	3,375	+375	+13%
Energy IT and Other Services	1,170	**1,170**	1,235	+65	+6%
Training	30	**30**	30	-	0%
TOTAL PROGRAM DIRECTION	**18,315**	**18,315**	**23,131**	**+4,816**	**+26%**
Total, International Affairs	**26,825**	**26,825**	**62,141**	**+35,316**	**+132%**
Federal FTEs	**75**	**75**	**89**	**+14**	**+19%**

Description
IA requests $39.0 million to fund Build Back Better World/Net Zero World ($18 million); Multilateral Engagement ($8 million); the United States-Israel Energy Center of Excellence ($4 million); the BIRD Energy Program ($2 million); Technical Assistance ($2.5 million); Clean Energy Deployment and Commercialization ($2.5 million); Energy Security and Clean Energy Initiatives ($1.0 million) and Market Development ($1 million). These activities are implemented through the National Laboratories or Headquarters contracts. In addition, IA requests $23.1 million to fund the salary, benefits, travel, support services, and other related expenses for 89 federal staff to develop, coordinate, and implement the Administration's international energy policy objectives. Our people are our most important asset - this increase of 14 federal staff from FY 2021 Enacted will support bilateral and multilateral relationships, market development and international economic opportunities, especially for American-made clean energy technologies.

Net Zero World and Build Back Better World (B3W)
B3W is a new whole-of-government global infrastructure initiative launched by the President of the United States and G7 leaders to coordinate in mobilizing private-sector capita focused on four pillars - climate, health and health security, digital connectivity, and gender equity and equality.

DOE's flagship contribution to the climate pillar of B3W is the Net Zero World Initiative (NZW). NZW is an interagency and DOE National Laboratory network-based initiative to accelerate decarbonization efforts toward net zero, resilient, and inclusive energy systems in strategically important countries. It will strengthen partner countries' ability to achieve their stated goals by creating and implementing highly tailored, actionable technology road maps and investment strategies at both the national- and subnational-levels that put net zero within reach. This work will also include targeted and sustained technical support across sectors. It will enable technology pilots, testing and incubators, policy and regulatory support, infrastructure modernization, investment partnerships and programs, workforce development, and other near- and long-term actions tailored to country contexts and priorities. In addition, NZW will help foster peer-to-peer learning. NZW aims to create new clean energy jobs and to mobilize at least $10 billion in clean energy infrastructure and project investment. It aims to grow the market for U.S. clean energy goods and services, create jobs, and expand U.S. influence.

Funds would also be leveraged to support work in B3W's digital connectivity pillar to advance infrastructure projects focused on smart grid-related hardware and software deployment and promotion of smart cities. Implementation under the digital connectivity pillar will focus on elevating the city as a laboratory for advancing resilience and adaptation in the response to climate change. Funding resources will enable utilization of the National Laboratories' expertise to help partner cities address climate risks by instituting resilience and adaptation solutions. Funds will also support trade promotion activities for U.S. companies that offer advanced clean energy technologies and resilience tools, products, and services in partnership with the Department of Commerce.

Funds would also allow for expansion upon the $100,000 seed funding provided to Argonne National Laboratory in 2021 to develop an energy project valuation and performance assessment (VPA) tool. Additional funds would enable application in performing various country and regional-level clean electricity deployment plans to demonstrate the cost-effectiveness of clean alternatives to traditional fossil fuel generation assets.

Multilateral Engagement
The Office of Multilateral Climate and Clean Energy Engagement seeks to advance U.S. leadership and DOE mission objectives, especially related to energy security and clean energy innovation and deployment, through international organizations and multilateral forums including (but not limited) the International Energy Agency, Clean Energy Ministerial, Energy Efficiency Hub, Mission Innovation, G7, G20, the Global Power System Transformation Consortium (G-PST) and UN Agencies.

The Office is DOE's conduit for leveraging key multilateral engagement platforms and related workstreams to enhance the impact of U.S. energy policy at home and abroad. Key efforts include:
- Rationalizing the international energy architecture. DOE is engaging with entities like the G7, G20, UN, IEA, and other key multilateral forums to make big bets on clean energy innovation, development, and deployment through developing centers of gravity across the multilateral landscape.

- Streamlining the clean energy innovation to deployment timeline: Through engagement with forums such as the Clean Energy Ministerial and Mission Innovation, DOE will address problems such as gaps in scaling up technologies, identifying appropriate incentives, market rules, and risk mitigation, and implementing appropriate clean energy standards. All of these actions are taken against a backdrop of engagement with industry to prioritize finance on an appropriate energy transition time horizon.
- Pursuing a sectoral approach to clean technology deployment: DOE will cluster multilateral initiatives by sector as appropriate across key multilateral forums as natural centers of gravity.
- Sustained action on critical minerals: Acknowledging that critical minerals are the fuel that will power the clean energy transition, IA will further U.S. values through multilateral cooperation, addressing clean energy supply chains, including critical minerals and materials, and acting on opportunities for collective action to manage risks.

Clean Energy Deployment and Commercialization in Emerging Economies

This program will support the development of tools to identify areas of greatest feasibility for advanced energy technology deployment in less-electrified areas of the world based on novel estimation of unmet electricity demand, technology-specific resource mapping, and economic, social, and political factors. These tools will help accelerate the deployment of clean energy technologies through programmatic engagement, including solar deployment in North Africa, carbon capture, utilization, and storage (CCUS) technology in coal dependent regions such as South Africa, and small modular nuclear reactor (SMR). It will also advance nuclear energy continent-wide. The request for this effort is $2.5 million.

Energy Security and Clean Energy Initiatives

Energy Security and Clean Energy Initiatives aim to protect the security of energy infrastructure in strategic U.S. partner countries through collaboration with DOE's National Laboratories and other experts, with a focus on country-appropriate technologies or policy solutions. Initiatives are designed to decarbonize and improve resiliency of energy systems, reduce vulnerability in the supply of critical materials, secure markets for clean energy resources, and build cooperation among trading partners in nearly every region of the world. IA requests $1.0 million for continued support of these initiatives in FY 2023.

Technical Assistance

Multilateral institutions help drive global action and are an important (and efficient) tool for expanding U.S. influence, driving global change and creating opportunities for U.S. industry in every corner of the planet. IA serves as DOE's focal point for all clean energy engagement through these multilateral institutions, ensuring alignment between institutional and U.S. efforts, and reducing unnecessary duplication of efforts or lost opportunities to maximize the responsible and efficient use of U.S. energy investments in these institutions. In FY 2023, IA requests $2.5 million for technical assistance to key multilateral organizations to expand U.S. leadership globally.

Market Development

In FY 2023, IA requests $1 million for the Office of Market Development. The Office of Market Development's mission is to advance policies that foster incentives for decarbonization of the global energy sector while bolstering U.S. jobs, enhancing our innovation edge against our key competitors, and fostering resilient, secure energy markets and supply chains. The Office of Market Development aims to enhance and revitalize U.S. competitiveness in the rapidly expanding global clean energy and infrastructure marketplace, while creating clean energy jobs in the U.S. economy across the country, and for fossil-dependent and disadvantaged communities. In FY 2023, Market Development will use the funding to advance three main objectives:
- Mobilizing for Near-Term Energy Transition Investment Needs: EO 14008 calls on DOE to advance international collaborations on innovation and deployment of clean energy. Market Development will coordinate a technology and finance-driven approach to support other countries meet their climate objectives through deployment of U.S.-sourced energy technologies and solutions.
- Harnessing Over-the-Horizon Energy Transition Opportunities: Through close partnerships with programmatic offices and National Labs, Market Development will identify policy levers and strategic partnerships to enhance U.S. competitiveness in net-zero energy technologies and develop frameworks to leverage international market demand pull capable of maturing technologies from developmental to commercial deployment.
- Addressing Climate Adaptation, Resilience, and Security: Market Development will lead engagements to help other countries improve the resilience of their energy systems and supply chains, including a focus on critical minerals,

and prepare communities to adapt to a rapidly changing climate, guided by just transition and alleviating energy poverty goals.

BIRD Energy Program
The Binational Industrial Research and Development Foundation (BIRD Foundation) was established by the U.S. and Israel governments in 1977 to generate mutually beneficial cooperation between U. S. and Israeli companies. IA requests $2 million for the BIRD Energy Program, which is an offshoot of the endowed parent BIRD Foundation and was authorized in 2007 and first appropriated funds in 2009. Since 2009, the BIRD Energy Program has resulted in commercialization of seven new clean energy technologies and attracted more than $800 million in venture capital and other follow-on investments to commercialize clean energy technologies.

United States-Israel Energy Center of Excellence
IA requests $4 million to contribute as matching funds to the U.S. – Israel Energy Center of Excellence (Energy Center) on behalf of the U.S. Government. Matching contributions are also provided by the Israeli Government and private partners from the U.S. and Israel. The goal of the Energy Center is to promote energy security and economic development through the research and development (R&D) of innovative energy technologies, while facilitating cooperation between U.S. and Israeli companies, research institutes and universities. The Energy Center will facilitate joint R&D activities on energy areas by teams of scientists and engineers from the U.S. and Israel.

Committee on Foreign Investment in the U.S. (CFIUS)
IA ensures the Department's compliance with the Foreign Investment Risk Review and Modernization Act of 2018 (FIRRMA), which modernizes CFIUS' process to better enable timely and effective reviews of covered transactions. This ensures that the U.S. maintains an open policy on foreign investment while properly screening inbound investments to ensure U.S. vital national security interests are protected.

Under FIRRMA, DOE CFIUS assists at a technical level with capacity building among U.S. friends and allies overseas, especially in Europe among NATO partners and member states of the European Union. DOE CFIUS intends to increase and expand international outreach focused on ensuring partner governments are able to maintain a proper balance between open foreign investment regimes to attract high quality investment, while ensuring vital national security interests are protected from increasingly aggressive predatory investment practices by countries less friendly to the U.S.

International Clean Energy Policy Development and Coordination
IA serves as DOE's representative on internationally focused Policy Coordination Committees (PCCs) managed by the National Security Council (NSC) and the National Economic Council (NEC); and serves as the conduit for energy policy and technical expertise across DOE and other Agencies. To achieve its mission, IA collaborates with DOE Senior Leadership, program offices, and the DOE National Laboratory complex, coordinating across the enterprise to leverage technical, policy, and market expertise with international partners. IA develops policies and provides senior-level advice on international energy matters in line with Administration goals and priorities. IA works to coordinate the U.S. Government's international energy relationships with foreign governments, energy ministries, and International Organizations, working in concert with the Departments of State, Defense, Interior, Commerce and other relevant federal agencies to promote the clean energy transition to net-zero emissions by 2050, advance universal energy access, spur technological innovation, open international clean energy markets to U.S. businesses, and promote energy security fundamentals and practices.

International Working Groups, Meetings, and Activities
IA supports US government leadership through a network of international relationships with energy partners that further our nation's international energy goals. The request fully funds IA participation in and implementation of interagency working groups, international meetings, activities, and policy areas, including:

International Energy Agency	U.S.-Mexico Energy Business Council
U.S.-EU Energy Council	Japan-U.S. Strategic Energy Partnership
UN meetings, including the COP	U.S.-Korea Energy Policy Dialogue
Partnership for Transatlantic Energy Cooperation	U.S.-Indonesia Energy Policy Dialogue
Three Seas Initiative	U.S.-Poland Energy Dialogue

Clean Energy Ministerial/Steering Committee	Asia-Pacific Economic Cooperation (APEC) Energy Working Group and Ministers Meetings
Conference on Critical Minerals	
Mission Innovation Ministerial/Steering Committee	North American Energy Ministerial
U.S.-Israel Energy Meetings	East Mediterranean Gas Forum
U.S.-Brazil Energy Forum	Gulf of Aqaba Energy Dialogue
U.S.-India Strategic Clean Energy Partnership	Iraq Initiatives
G-7 Working Groups and Ministers Meetings	Net Zero Producers Forum
G20 Working Groups and Ministers Meetings	Quad Climate Working Group
Global Methane Pledge	Association of Southeast Asian Nations (ASEAN) - U.S. Energy Ministerial
U.S.-Ukraine Energy Cooperation	

Foreign Engagements with National Laboratories

IA also manages and reviews the DOE approval process for DOE's 17 National Laboratories' international partnerships, which include, *inter alia*, Strategic Partnership Projects (SPP); Cooperative Research and Development Agreements (CRADA); Agreements for Commercializing Technology (ACT); and other mechanisms. IA reviews these agreements to ensure that the foreign engagements of the laboratories meet the requirements of DOE Order 485.1A to: (1) align consistently with the strategic interests and foreign policies of the United States, (2) be legally sound and compliant with U.S. laws and regulations, and (3) address research security and counterintelligence considerations.

Interagency Appropriations Transfers and Reimbursable Work

IA federal staff historically implement projects funded by other agencies through appropriations transfers or reimbursable work. The received funds occasionally fund IA federal staff travel and support services contracts, but not salaries, benefits, or administrative expenses.

Activities and Explanation of Change

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Energy Security and Clean Energy Initiatives $1,025,000	**$1,025,000**	**$0**
Energy Security and Clean Energy Initiatives provides technology innovation, resilience, sector development, training, and other activities through National Laboratories or headquarters contracts.	FY 2023, initiatives are designed to decarbonize and improve resiliency of energy systems, protect energy infrastructure, reduce vulnerability in the supply of critical materials, secure markets for clean energy resources, build cooperation among regional trading partners in the Arctic, Americas, Africa, Middle East, Europe and Eurasia, and Asia and the Pacific.	No change.
Technical Assistance $1,485,000	**$2,485,000**	**l,000**
Technical Assistance funds participation through dues, contributions, and other activities in multilateral organizations to improve alignment with U.S. goals.	Continuation of FY 2021 activities in key multilateral organizations include, but are not limited to: Arctic Council, G-7, G20, International Energy Agency, Organization for Economic Cooperation and Development, Clean Energy Ministerial, Nuclear Power Ministerial, Nuclear Energy Agency, International Atomic Energy Agency, Clean Energy Ministerial, Asia-Pacific Economic Cooperation (APEC), International Renewable Energy Agency, and International Framework for Nuclear Energy Cooperation, etc.	More Activities with Key Multilateral Organizations.
Market Development $0	**$1,000**	**+$1,000**
	Advance policies that foster incentives for decarbonization of the global energy sector while bolstering U.S. jobs, enhancing our innovation edge against our key competitors, and fostering resilient, secure energy markets and supply chains.	**New**
Clean Energy Deployment and Commercialization in Emerging Economies $0	**$2,500**	**+$2,500**
	Advanced energy technology feasibility and market development: development of a tools to identify areas of greatest feasibility for advanced energy technology deployment in less-electrified areas of the world based on novel estimation of unmet electricity demand, technology-specific resource mapping, and economic, social, and political factors.	**New**
Multilateral Engagement $0	**$8,000**	**+$8,000**
	Fund substantive workstreams under both the Clean Energy Ministerial and Mission Innovation, which are intended to drive innovation and build markets for several sectors, including hydrogen,	**New**

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
	super-efficient appliances and carbon dioxide removal technologies, amongst others, that are lynchpin technologies to address the climate crisis and where US industry has a competitive advantage.	
Net Zero World/Build Back Better World (B3W) $0	**$18,000**	**-$18,000**
	B3W is a new global infrastructure initiative focused on four pillars - climate, health and health security, digital connectivity, and gender equity and equality. Net Zero World harnesses DOE's world class research complex and leverages inter-agency efforts to decarbonize the energy systems in strategically critical countries – growing the market for US clean energy goods and services, creating jobs and expanding US influence.	**New**
U.S. – Israel Energy Center of Excellence $4,000,000	**$4,000,000**	**$0**
U.S. – Israel Energy Center of Excellence funding is provided to the Center on behalf of the United States Government. Matching contributions are also provided by the Israeli Government and private partners from the United States and Israel. The Energy Center will facilitate joint R&D activities on energy areas by teams of scientists and engineers from the U.S. and Israel.	Continuation of FY 2021 activities.	No change.
BIRD Energy Program $2,000,000	**$2,000,000**	**$0**
BIRD Energy Program supports commercialization of new clean energy technologies.	Continuation of FY 2021 activities.	No change.

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Salaries and Benefits $13,530,000	**$17,341,000**	**+$3,811,000**
Use of prior year balances increases the FY 2021 Salary and Benefits of Federal Employees expense to $14.4 million, funding 75 FTEs.	Continuation of FY 2021 activities with 89 FTEs.	Increase supports additional federal staffers to support bilateral and multilateral relationships, market development, and international economic opportunities. Assumes a 4.6% pay raise for federal employees and FERS benefits increase in FY 2023.
Travel $400,000	**$925,000**	**+$525**
Travel to support the President, the Secretary, and others supporting meetings and events pertaining to energy policy, science and technology, and multilateral national security engagements.	Continuation of FY 2021 activities.	COVID-19 curtailed travel in FY 2021. In FY 2023, IA requests a return to historical travel levels.
Support Services $185,000	**$225,000**	**+$40**
Subscriptions and Publications Management Support Contracts for administrative functions.	Continuation of FY 2021 activities.	No significant change.
Other Related Expenses $4,200,000	**$4,640,000**	**+$440**
Working Capital Fund, Building Rent, IT Equipment and Services, Training, Secure Communications, Translation Services, Security Investigations, Supplies, Training, and Registrations.	Continuation of FY 2021 activities.	No significant change

International Affairs
Research and Development ($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs. FY 2021 Enacted
Applied Research (Direct)				
U.S.-Israel Energy Center of Excellence	4,000	4,000	4,000	0
BIRD Energy Program	2,000	2,000	2,000	0
Total, R&D	**6,000**	**6,000**	**6,000**	**0**

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Artificial Intelligence and Technology Office
Program Direction

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Overview

The Artificial Intelligence and Technology Office (AITO) is the principal organizer of cross-cutting Artificial Intelligence (AI) and Machine Learning (ML) activities including research, development, demonstration, strategy, and AI activities for the U.S. Department of Energy (DOE). AITO leads as well as participates in internal and external facing initiatives that advance the DOE mission through innovations that include AI for cyber defenses, economic and national security, workforce development, and institutionalization of findable, accessible, interoperable, and reusable (FAIR) data principles. Internally, AITO works to identify and working in collaboration with the program offices and national laboratories to address gaps in research, development, implementation, and deployment of AI investments. AITO leads development of the DOE AI Strategy, and identifies and provides analysis, training, tools, and leads programs to improve successful adoption and integration of AI solutions from mathematical and algorithmic proposals to prototypes and department-wide implementation. AITO provides stewardship of the AI Advancement Council (AIAC), a vehicle created to ensure continuous decision-making regarding departmental needs and the future state of the evolutionary AI and ML technology. AITO provides capabilities in support of cross-cutting research and development of solutions that address the DOE mission and the Administration's goals, including climate resiliency, energy justice, and clean energy. Implementation of AI tools across these activities will support more effective decisions that will protect citizens, the nation, and our international alliances.

Highlights for the FY 2023 Budget Request

The FY 2023 request includes supporting four FTE's salaries, benefits, official travel, training, and overhead expenses. The increase of $100,000 will support associated support services contracts, and administrative expenses to execute the AITO mission, refine the DOE AI strategy, and coordinate AI activities across the Department and its National Laboratories. Also, the contractor will support work product development and activities required by the AI advancement council, participate in developing/maintaining the product that is used to improve DOE-wide AI workforce talent management, and assist with system improvements to support the AITO responsibility as the principal organization for delivery of cross-cutting AI initiatives.

Artificial Intelligence and Technology Activities

Communications

In FY 2022, AITO began amplification of success stories from across the DOE complex and developed communications to identify and showcase AI innovations internal and external to DOE. These facilitate cross-pollination and demonstration of the impacts of the program offices' and National Laboratories AI investments. AITO also facilitated as well as participated in Intelligence and inter-agency briefings on AI use for adversarial purposes as well as a defender of the nation's critical infrastructure. FY 2023 funding supports continued communications including intelligence and inter-agency briefings on AI.

AI Portfolio Analysis, Optimization and Advanced Reporting

AITO conducts and facilitates DOE-wide review and analysis of planned and target AI investments and projects on classified and unclassified networks. This is a complex, continuous, and necessary activity to ensure that the

maximum potential of research, development, delivery, and acquisition of AI solutions is realized at the speed required to remain competitive nationally. Each program office has a portfolio of investments and projects. AITO, through advanced analysis and reporting, identifies gaps and recommends critical AI scientific and technology programs. The outcome is cross-cutting investment optimization and better tracking of AI initiatives and project inventory, as required by Executive Order (EO) 13970: Promoting the Use of Trustworthy Artificial Intelligence. AITO will continue implementation efforts in FY 2023 with deeper analysis into the impacts on the administration and agency wide goals including but not limited to energy and climate resilience.

Information Technology and Process Modernization
Expanded capabilities including additions of knowledge graphs and process improvements are required to support the growth of DOE AI investments. This encompasses project data and meta-data and upgrades to AI technologies that are used to conduct portfolio analysis, optimization trending and advanced reporting for predictive analytics through machine and/or deep learning in support of the programmatic offices' activities. The IT modernization will enhance the current portfolio system and enable better scale of solutions and easier extrapolation of data for use across the department, across other federal, state, and local agencies as well as industry, academia and others including disadvantaged communities. AITO will continue to mature the AI Risk Management Playbook to align with departmental needs and inter-agency feedback.

AI Targeted Stakeholder Outreach and Partnering
Outreach and partnering efforts from the local to the global scale permit the exchange of AI assets and inform the DOE AI direction, support the evolution of the department's AI strategy, and guide the planning that ensures national security, critical infrastructure protections including cybersecurity, and relevant mission outcomes. Outreach has included science, technology, engineering and math challenges, and participation in committees with the White House Office of Science and Technology Policy. AITO is an active member of the Networking and IT Research and Development (NITRD) AI working group, Machine Learning and AI subcommittee (MLAI-SC), Equity AI Interagency Policy Council (IPC), and the Interagency Task Force on Military and Veterans Mental Health. International partnerships will forge ahead in education and training, and listening sessions and collaborations will expand to mitigate energy vulnerabilities and climate risks, in partnership with International Affairs (IA). Within DOE, AITO is sought out for AI information, solving problems in the DOE mission areas with AI tools, coordination to accelerate mission achievement through basic research and applied AI, and provides independent test and evaluation support for program offices, guiding responsible and trustworthy AI outcomes. AITO also leads special projects that facilitate department-wide legislative compliance in AI/ML.

AI Workforce Skilling/Upskilling and Talent Management
AITO plans to launch an AI/ML cohort for a minimum of five student researchers (undergraduate and graduate levels) in support of AI workforce skilling/upskilling and talent management and associated Executive Orders. This effort builds upon the success of the Frontiers Development Lab (FDL) challenge that AITO led across DOE in FY 2022. AITO will continue the popular DOE leadership and practitioner training on AI, machine learning, and deep learning. These programs specifically provide post doctorate and graduate students experience in the application of AI to address the administration needs that include AI for cyber security, robotics, conversational AI that supports program offices such as the loan program office with secured and responsible principles, and other critical mission areas. The external facing challenges and internal facing AI educational programs benefit all participants by enhancing education and training in AI technology, increases AI leadership and applied capabilities, strengthens marketability in the scientific disciplines, and allows non-governmental students to gain

deeper insights into the federal government's role in the creation and implementation of AI policies and adoption.

AI Advancement Council (AIAC) Leadership and Advancements
The DOE cross-cutting AIAC will continue in FY 2023 and is an example of the responsibility DOE takes in operating as a leading agency in the civilian use and advancement of AI. Established by AITO in 2022, the AIAC is co-chaired by the Undersecretary of Science and Innovation and the Administrator of the National Nuclear Security Administration. AITO is the founding member and architect of the AIAC, serving as steward of operations and the executive secretariat. AIAC will be instrumental for department wide information flow, risk management, and deliberative, informed AI decision making for investment in initiatives and outcomes. The AIAC task force on Responsible and Trustworthy (R&T) AI is comprised of Program Office representatives including the national labs. The R&T AI task force is establishing ethical and equity AI principles and practices for the department and integration into workforce development efforts. The R&T AI task force is also responsible for AI Verification and Validation (AI-V&V) practices to facilitate equity. Additional task forces are planned that will support implementation of the DOE AI strategy at the speed of relevancy to the mission.

<p style="text-align:center">**Program Direction**
Funding ($K)
(Dollars in Thousands)</p>

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted ($)	FY 2023 Request vs FY 2021 Enacted (%)
Washington Headquarters					
Salaries and Benefits	2,000	2,000	2,000	0	0%
Travel	100	100	10	-90	-90%
Support Services	200	200	390	+190	+95%
Other Related Expenses	250	250	200	+0	0%
Total, Program Direction	**2,500**	**1,435**	**2,600**	**+100**	**+4%**
Total FTEs	**4**	**4**	**4**	**0**	**0%**

Artificial Intelligence and Technology Office
Funding

Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Program Direction $2,500,000	**$2,600,000**	**+$100,000**
Salaries and Benefits $2,000,000	**$2,000,000**	**+$0**
• Funding supports 4 FTEs to manage AITO, including AI strategic outreach for partnership development and new program pilots. • AITO will organize and lead working groups and committees, in partnership with other entities, to determine DOE AI priority issues. • AITO will identify and facilitate partnerships with the private sector, academia, national laboratories, other agencies, international partners and entities to support US competitiveness in AI.	• Funding supports 4 FTEs to manage AITO, including AI strategic outreach for partnership development and new program pilots. • AITO FTEs determine the priority needs of the DOE in AI through workshops, inter-agency coordination and private sector engagement. • AITO partners with the private sector, academia, national laboratories, other agencies, international partners and entities to support US competitiveness in AI. • AITO FTEs organize and lead, via working groups, assemblies and committees, DOE AI priority issues in partnership with other entities and agencies.	• No Change
Travel $100,000	**$10,000**	**-$90,000**

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
• Funding supports travel requirements associated with DOE's Artificial Intelligence and Technology Office, such as AITO's engagement with the labs, meetings, international collaborations, outreach at industry events, workshops and conferences, and AITO's participation in lab events.	• Funding supports travel requirements associated with DOE's Artificial Intelligence and Technology Office, such as AITO's engagement with the labs, meetings, international collaborations, outreach at industry events, workshops and conferences, and AITO's participation in lab events.	• Decrease to shift funding to support services.
Support Services $200,000	**$390,000**	**+$190,000**

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
• Funding supports contractor and consulting support services to assist Federal staff in the coordination of AI activities between DOE and the national labs for the development of tools and information to advance AI. • Funding advances the integration and co-design of AI memory and hardware technologies. • Funding supports coordination of data resources and AI testbeds across the national laboratories. • Funding supports periodic AI related workshops to determine priority needs of DOE in AI and expand strategic multi-sector partnerships with the private sector, academia, national laboratories, other agencies, international partners and entities to support US competitiveness in AI.	• Funding supports contractor and consulting support services to assist Federal staff in the coordination of Artificial Intelligence activities between DOE and the national labs for the development of tools and information to advance AI. • Funding advances the integration and co-design of AI memory and hardware technologies. • Funding supports coordination of data resources and AI testbeds across the national laboratories. • Funding supports periodic AI related workshops to determine priority needs of DOE in AI and expand strategic multi-sector partnerships with the private sector, academia, national laboratories, other agencies, international partners and entities to support US competitiveness in AI.	• Increase supports expansion of existing activities: robust analytical support, including market and supply chain analysis efforts, furthering operationalization of the AI council, system improvements that provide the infrastructure as the AI convening authority and principal organization for cross-cutting AI initiatives; support AI4Cyber and Trustworthy AI mission, enhance risk management practices/policy, and program management support and National Laboratories effort to enhance AI workforce skilling/upskilling/ talent management.
Other Related Expenses $200,000	$200,000	+$0

Artificial Intelligence and Technology Office/
Program Direction

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
• Funding supports the costs associated with the DOE's WCF (office space, infrastructure, phones, utilities, supplies etc.); EITS (IT equipment and support); specialized software licensing; and security investigations. • Funding includes formulating AI training modules for the education and training of DOE staff in AI and opportunities created by AI related technologies. • Additional expenses for staff development, recruiting, succession planning, and training to maintain and enhance AI work related skills and capabilities.	• Funding supports the costs associated with the DOE's WCF (office space, infrastructure, phones, utilities, supplies etc.); EITS (IT equipment and support); specialized software licensing; and security investigations. • Funding includes formulating AI training modules for the education and training of DOE staff in AI and opportunities created by AI related technologies. • Enhance upskilling and talent management programs to leverage AI emerging capability by ensuring staff, the USA and international partners advance at the same pace or faster than competition (national and international).	• No Change.

Office of the Chief Information Officer

Overview
The Office of the Chief Information Officer (OCIO) leads information technology (IT) and cybersecurity coordination across the entire DOE enterprise.

Highlights of the FY 2023 Budget Request
The FY 2023 Request is $233,731,188 which is a increase of $93,531,188, or 67 percent from the FY 2021 Enacted amount. Included in the FY 2023 Request is $59,006,000 to address Cyber Modernization / SolarWinds Response and Recovery. The funding request targets critical cybersecurity needs across DOE, prioritizing cybersecurity enhancements, including: cloud security, Security Operations Center (SOC) enhancements, encryption, Multi-Factor Authentication (MFA), increased logging functions, and enhanced monitoring tools. DOE's maturation levels were reviewed to determine the most critical gaps that require additional funding.

The FY 2023 Request continues to support the President's Management Agenda priorities of IT Modernization and Cybersecurity initiatives that leverage process improvements focused on digital services. OCIO's priority is to continue the modernization of DOE's IT infrastructure and IT services to provide the capacity, flexibility, and resiliency required of a modern and secure enterprise. The proposed modernization initiatives included in the FY 2023 Request will continue to reduce the threat of cyber attacks through technology and automation, scaling capacity commensurate with demand, and establish enabling IT enterprise capabilities. This will allow for commercial/managed IT service implementation with engineered and inherent cybersecurity capabilities and provide foundational requirements for enhanced cybersecurity tools, products, and capabilities. Vulnerabilities identified by the SolarWinds intrusion incident of December 2020, will continue to be addressed through funds specifically dedicated to cyber response and recovery management in the FY 2023 Request.

The OCIO will focus on opportunities to increase DOE enterprise-wide visibility through real-time information availability, integrated incident reporting data and metrics, and tool modernization to increase data integration; strengthening enterprise risk management practices and execution of enterprise-wide assessments and risk register reporting; and delivering improved cybersecurity training, education, and awareness.

Office of the Chief Information Officer

($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted ($)	FY 2023 Request vs FY 2021 Enacted (%)
Chief Information Officer					
Cybersecurity					
Protecting Networks and Information (Protect)	31,370	31,370	30,985	-385	-1%
Detect, Analyze, and Mitigate Intrusions (Detect and Respond)	26,950	26,950	31,431	4,481	17%
Shaping the Cybersecurity Environment (Identify and Recover)	13,480	13,480	29,945	16,465	122%
Total, Cybersecurity	**71,800**	**71,800**	**92,361**	**20,561**	**29%**
Cyber Modernization / SolarWinds Response and Recovery	**0**	**0**	**59,006**	**59,006**	**100%**
Corporate IT Program Support					
IT Portfolio Summary	17,529	17,529	22,881	5,352	31%
IT Infrastructure	3,781	3,781	4,170	389	10%
End User-Energy Information Technology Services (EITS)	3,996	3,996	4,184	188	5%
Total, Corporate IT Program Support	**25,306**	**25,306**	**31,235**	**5,929**	**23%**
Program Direction					
Salaries and Benefits	25,232	25,232	30,963	5,731	23%
Travel	304	304	336	32	11%
Support Services	3,325	3,325	3,325	0	0%
Other Related Expenses	14,233	14,233	16,505	2,272	16%
Total, Program Direction	**43,094**	**43,094**	**51,129**	**8,035**	**19%**
Total, Chief Information Officer	**140,200**	**140,200**	**233,731**	**93,531**	**67%**
Federal FTEs	124	124	142	18	15%

OCIO Sources for Funding Activities	FY 2023 Request	WCF	Customer (EITS)	Total
CYBERSECURITY				
Protecting Networks and Information (Protect)	30,985	0	2,680	33,665
Detect, Analyze, and Mitigate Intrusions (Detect and Respond)	31,431	0	4,361	35,792
Shaping the Cybersecurity Environment (Identify and Recover)	29,945	0	7,513	37,458
TOTAL, CYBERSECURITY	**92,361**	**0**	**14,554**	**106,915**
CYBER MODERNIZATION / SOLARWINDS RESPONCE AND RECOVERY	**59,006**	**-**	**-**	**59,006**
CORPORATE IT PROGRAM SUPPORT				
IT Portfolio Summary[1]	22,881	8,822	-	31,703
IT Infrastructure	4,170	-	-	4,170
End User –Energy Information Technology Services (EITS)	4,184	40,023	78,769	122,976
TOTAL, CORPORATE IT PROGRAM SUPPORT	**31,235**	**48,845**	**78,769**	**158,849**
PROGRAM DIRECTION				
Federal Salaries & Benefits	30,963	-	-	30,963
Travel	336	-	-	336
Support Services	3,325	-	-	3,325
Other Related Expenses	16,505	-	-	16,505
TOTAL, PROGRAM DIRECTION	**51,129**	**-**	**-**	**51,129**
OCIO payments into Shared Services and WCF[2]		(2,973)	(6,610)	(9,583)
Total, Chief Information Officer	**233,731**	**45,872**	**86,713**	**366,316**
Federal FTEs	**142**	**3**	**-**	**145**

[1] The WCF Corporate IT Program Support reflects the WCF request for $48,844,493 which is comprised of $5,822,000 for the Inter-Agency Transfers business line and $3,000,000 OPM credit monitoring under IT Portfolio Summary and $40,022,493 is for End User – EITS Telecommunications business line.

[2] OCIO provides funds to Shared Services and WCF as a customer as well as the rest of the contributing program offices. In order to not double count those payments in the totals available, a bottom line adjustment was made.

Cybersecurity

Overview

The OCIO leads the Department's Cybersecurity program on behalf of the Secretary and in accordance with the Federal Information Security Modernization Act of 2014; and unclassified network services to DOE Headquarters and participating field sites. This includes protecting DOE networks and information; detecting, analyzing, and mitigating intrusions; providing continuous monitoring of the network and infrastructure; and managing the DOE cybersecurity environment. of the following summarizes the Cybersecurity portfolio of work and provides information on the anticipated activities.

Highlights of the FY 2023 Budget Request

- Increase enterprise-wide visibility of the Department through increased real-time information availability, integrated incident reporting data and metrics, and tool modernization to increase data integration. (Protect, Detect, and Respond)
- Strengthen enterprise risk management practices to support defensible business decisions through sustainment of the Enterprise Cybersecurity Risk Management program, Supply Chain Risk Management program, and execution of enterprise-wide assessments and risk register reporting. (Identify and Recover)
- Deliver improved cybersecurity training, education, and awareness through enriched cybersecurity training curriculums, awareness and learning opportunities, and collaboration with internal and external cybersecurity communities of interest. (Protect)
- Continue migration of data center applications to the cloud and optimization of multi-cloud (the distribution of cloud resources over a number of clouds) operations and application workloads. (Identify and Recover)
- Continue implementation of Trusted Internet Connection (TIC) 3.0 and Zero-Trust Networking capabilities. (Protect)
- Deploy new capabilities in Customer Relationship Management (CRM), Workforce Enablement, Digital Worker Services, Identity Management, Infrastructure Services, and IT Service Management. (Protect)

Funding Breakout and Analysis

This section summarizes the program and activities associated with the overall projected OCIO cybersecurity budget. It captures activities under three budget lines aligned to the NIST Cyber Security Framework (CSF):
- Protect – Awareness and Training, Information Protection Processes, and Protective Technology
- Detect and Respond – Response Planning, Detection, Analysis, Mitigation, and Improved Communication
- Identify and Recover – Continuous Monitoring, Risk Assessment/Management, Business Processes, Governance, Asset Management, Recovery Planning, and Improvements

Budget Line: Protecting Networks and Information - Protect ($30,985,000 – Request; $2,679,676 – Customer) (TOTAL = $33,664,676)

Provide programs to protect DOE networks and the information which resides on them.

Activity: Data Center Modernization ($2,700,000)
Funding is being requested to continue the migration of on-premises data center workloads to the DOE enterprise cloud Infrastructure as a Service (IaaS), Software as a Service (SaaS), Platform as a Service (PaaS) environments in Amazon AWS and Microsoft Azure. Funding will also support the optimization of poly-cloud operations and applications within the cloud environments to include deployment of additional PaaS and SaaS solutions within the AWS and Azure environments. This initiative also supports and is aligned with the federal Data Center Optimization Initiative (DCOI) and will assist in driving the Department towards compliance while driving down Total Cost of Ownership (TCO) by leveraging cloud native solutions to automate workflow.

Activity: Infrastructure IT Modernization ($2,500,000)
This initiative will focus on new capabilities in the focus areas of Customer Relationship Management (CRM), Workforce Enablement, Digital Worker Services, Identity Management, Infrastructure Services, and IT Service Management as part of the overall DOE IT Modernization. Modernizing DOE's IT infrastructure, services, and operations to a level consistent with the needed capacity, flexibility, and resiliency of a modern secure enterprise remains a key priority. This funding will support continued identification and implementation of new technologies, managed services, and commercial cloud services solutions to improve cybersecurity, scale capacity commensurate with demand, and establish IT enterprise capabilities in support of DOE enterprise users and the DOE mission.

Activity: Design and Engineering (ICC) (Previously Policy and Development- IT Modernization) ($2,573,000)
This request is to fund continued Google Cloud Platform (GCP) Operations and Maintenance to further develop the platform and maintain a security Authorization to Operate (ATO). As part of the OCIO effort to expand cloud services to the Enterprise, OCIO is leading a project to integrate Google Cloud Platform (GCP) as an additional Cloud offering in the OCIO portfolio to compliment current offerings such as Amazon AWS and Microsoft Azure. GCP is a FedRAMP authorized Cloud platform with a set of management tools, identity and security services, and modular cloud products for commodity and advanced IT deployments such as Analytics, Machine Learning, and Artificial Intelligence. Specifically, the offering provides governed access to the suite of GCP cloud computing products, including high-level services like Containers that may not be available in other OCIO offerings, to support the missions of the Innovation Community Center (ICC) and the broader Department of Energy Offices and Labs.

Activity: Network Modernization - DOEnet/ESnet (Energy Sciences Network) & Trusted Internet Connection (TIC) 3.0 ($2,395,000)

The Department maintains a corporate business Wide Area Network (WAN), DOEnet, supporting enterprise business services. DOE continues to evolve from a decentralized entity to one focused on integration and collaboration, which requires modernization of the DOE wide area network. This funding will continue the efforts to improve operational performance, security, and resiliency, while expanding opportunities for multi-site collaborations through modernization of the Department's wide area network architecture. This funding will support DOE's efforts to transition to Internet Protocol Version 6 (IPv6). Identify and implement additional Trusted Internet Connection (TIC) 3.0 and Zero-Trust Network (ZTN) capabilities and solutions aligned with the Department of Homeland Security (DHS) guidance in support of the continued shift from on-premises TIC infrastructure to commercially-managed services and solutions to deliver an improved mobile/remote access experience for DOE users and support the expanded use of cloud services.

Activity: Identity, Credential, and Access Management (ICAM) ($4,500,000)

Funding supports the increased requirement for PIV or equivalent Identity Assurance Level (IAL)/Federation Assurance Level (FAL)/Authenticator Assurance Level (AAL) credentials for network access for privileged and un-privileged accounts. DOE has achieved the OMB goal to require PIV or equivalent to access un-privileged network user accounts and will focus efforts on the OMB goal for privileged network user accounts. Funding will enable expansion of the digital identity repository of DOE sites. The DOE identity management service supports 377,546 identities of which 236,868 are current active identities. Funding will expand authentication services directly supporting a current total of 170 DOE applications in production or in process as well as federated to 4 authentication hubs and expansion of authentication services to DOE sites which will result in raising the requirement for use of the proper credential based on a role-based risk assessment. Funding also supports continued federation services with MAX.gov and Login.gov, ongoing cloud infrastructure costs, enterprise service support for the DOE-wide global address list including exchange of encryption certificates and physical access for a number of sites, and enterprise licensing of identity and access management commercial products.

Activity: Managing DOE Spectrum Program ($1,553,000)

Funding will provide Spectrum Management technical, logistical, and administrative support, as well as ongoing oversight and advocacy at an inter-agency level in the National Capital Region. The DOE Spectrum Program is mandated under Title 47, U.S. Code of Federal Regulations, 901, et. seq., and manages DOE radio frequency spectrum-dependent resources for NNSA, Power Marketing Administrations (PMAs), Office of Secure Transportation, and National Laboratory spectrum-dependent assets. DOE is the 9th largest holder of radio frequencies with more than 7,300 individual radio assignments across 34 sites receiving services from OSM including Headquarters, the National Labs, the PMAs, and NNSA sites. Critical DOE missions and essential functions utilizing Spectrum services include the National Power Grid, Interstate Electricity Transmission, Satellite Missions, Nuclear Emergency Search, Radiological Assistance, Secure Transportation and Safeguards, and Protective Force Communications.

Activity: Coordinate Cyber Response, Cybersecurity Awareness, and Role-Based Training ($4,600,000)
This funding supports the continuation of role-based training to ensure the Department's authorizing officials, system owners and information systems security officers have the best training available to provide critical risk management support. The Cyber Forensics and Incident Response Exercise (FIRE) program is a flagship training program that develops cyber incident responder specialized skills needed to defend information technology (IT) and operational technology (OT) infrastructure, to mitigate cyber threats through extensive training and enables the development of advanced teams of incident responders. This funding provides for two events per year, bringing together incident responders from across DOE, the public sector, private sector, and international partners. Smaller events are held with members of the private sector and academia. Funding in this activity is to develop and improve cybersecurity training and awareness by:

- Developing world-class cyber leadership and workforce to improve recruitment and retention;
- Building a cybersecurity community within DOE and externally through partnerships with other Federal stakeholders;
- Improving Authorizing Official (AO) and risk-based investment training for DOE leader enablement;
- Improving cyber professional workforce through education and training opportunities via community moderated forums, cloud-based technology, and hands-on education channels; and
- Enhancing workforce engagement through enriched cybersecurity training curriculums; awareness and learning opportunities; and collaboration with internal and external cybersecurity communities of interest.

Activity: Operations Technology (OT)/ Control Systems (CS) Technology ($1,000,000)
This funding will support testing of new processes and piloting of technologies that improve the Department's ability to detect, monitor and protect these critical systems. As a member of the DHS CISA-led Control Systems Interagency Working Group and the responsibility to manage and oversee a vast number of industrial control systems and critical infrastructure supporting the electrical grid, DOE is expected to engage and act on Executive Order (EO) 3920, *Securing the United States Bulk-Power System*. DOE has commissioned an internal Control Systems Working Group to define the DOE control systems environment and execute a strategy to remediate cybersecurity control gaps and institute process improvements to ensure the security of the nation's Bulk-Power System while maintaining compliance with the North American Electric Reliability Corporation (NERC) Critical Infrastructure Protection standards.

Activity: Control Systems (CS) and Operational Technology (OT) Modernization ($2,158,000)
Funding will provide expansion of cloud based data storage, analytics platforms, communications links to move data, sensors and analytical tools designed for CS/OT and training from industry experts in the field of control systems and operational technology to improve visibility, increase monitoring, shared situational awareness, and collaboration.

Activity: Emerging Technologies ($1,800,000)
Funding will support strategy and architecture activities for the Department through the Innovation Community Center (ICC). The Emerging Technology architects gather and analyze business opportunities; establish and validate risk mitigation strategies; identify use cases; develop architecture designs that show efficiencies in areas such as business processes, decision making, and cost reductions; and pass technical specifications to ICC build teams. The effort will help the agency align with the objectives outlined in EO 13859, *Maintaining American Leadership in Artificial Intelligence*, and will assist in the adoption of new technologies. This activity includes the following:

- Provide technical evaluations and recommendations
- Identify promising technologies for possible Departmental integration
- Recommend ways to integrate products and services into an operational environment

This will accelerate the review of all commercial software deployed across DOE to identify software at risk. Software that is not at the latest release or has been developed by a foreign manufacturer must be reviewed through the four lenses of the Supply Chain Risk Management (SCM) program. Each commercial software product and version must be reviewed against a known list of Critical Vulnerabilities and Exposures (CVE) to identify and eliminate software that is at risk, including those associated with software developed by adversary nation states or organized crime. It will also assure that software with known vulnerabilities are identified and removed. The most common cyber attack vector is for bad actors to compromise systems and networks using known vulnerabilities which must be mitigated. These activities will reduce the risk of exposure which in turn reduces the costs associated with remediation as well as reduce the potential for exposure of sensitive and personal information.

Activity: Cybersecurity Program Management Support ($581,000)
Funding will provide support for OCIO leadership in the areas of cybersecurity program management and administrative support for cybersecurity projects to include tracking, monitoring, and reporting project status and providing strategic guidance and recommendations to OCIO leadership to accomplish the strategic goals of the organization.

Activity: Program Management Oversight for Cybersecurity ($2,625,000)
Funding will provide program integration and innovation support for managing IT Support Services strategic sourcing vehicle for OCIO contracts in the areas of Cybersecurity:
- Provide program management in support of projects, including tracking, monitoring, and reporting project status and providing strategic guidance and recommendations to OCIO leadership to support evidence-based and data-driven decision-making to accomplish strategic goals of the organization.
- Support IT projects assessing and shaping the demand pipeline for services across the agency to enable the OCIO to streamline the investment decision process for new IT products and services.
- Provide strategic design and innovation in order to clearly define and map issues, uncovering the customer pain points at project onset and developing an understanding of customer needs, preferences, and behaviors to design future state operations and enhance service delivery.
- Provide organizational change management in support of IT projects in order to account for the impact new initiatives have on operations, culture, and employees; and ensures the capability to sustain continual IT refresh and innovation.

Activity: Anonymized Browser ($500,000)
Funding is for Anonymized Remote Browser Isolation solution to provide an additional layer of protection for DOE users and assets by separating browsing activity from endpoint hardware, thereby reducing the device's and the organization's attack surface. If a user clicks on a malicious link in a browser session, that payload would be executed in the Remote Browser instance and not on the DOE user's desktop and when the session is ended, anything malicious is deleted.

Activity: Platform Engineering ($1,500,000)
Funding will support the Platform Engineering work required for the following:
- Near-term: Bring the EITS Azure cloud environment into parity with the EITS Amazon Web Services environment to ensure that current state capabilities, security configuration, governance, and monitoring are consistent across platforms.
- Longer-term: Develop and implement standardized policies, procedures, and governance to mature current state EITS cloud platform services into a Polycloud capability end state.

Initial maturity efforts will include: developing a Polycloud strategy to ensure consistency in operational security implementation of vulnerability scanning and configuration compliance monitoring; developing automation opportunities with cloud offering to increase the efficiency and further reduce compliance risk by minimizing opportunities for human error; expanding existing Infrastructure as a Service (IaaS) services to include Platform as a Service (PaaS) and Marketplace offerings; leveraging opportunities to securely offer containers, and developing policies and capabilities for leveraging data at rest encryption across Polycloud capabilities. The Platform Engineering effort work is necessary to move away from segmented cloud service implementations and into an EITS Polycloud services that caters to many needs but delivers and offers those services and capabilities in a secure, compliant, and consistent manner.

Customer funding provided as part of Energy Information Technology Services (EITS) ($2,679,676)*
*Cyber for EITS Protect ($2,679,676)**
Funds secure data transmissions to include credentialing and access management, data safeguarding, secure data transmission, and system security testing and analysis for EITS customers.

WCF and customer fund dollars include OCIO contributions

Budget Line: Detect, Analyze, and Mitigate Intrusions – Detect and Respond ($31,431,000 – Request; $4,360,652 Customer) (TOTAL= $35,791,652)

Expand operational visibility of the DOE complex through increased real-time information availability, integrated incident reporting data and metrics, and tool modernization to increase data integration. Visibility into cybersecurity operations across the DOE sites, labs, and offices is a critical component of ensuring strong cybersecurity. Oversight into current processes will help identify gaps and vulnerabilities in our systems. Programs being able to create this visibility and plug those gaps will be critical in the Department's cybersecurity strategy moving forward.

Activity: SOC Assessment/Pursuit/Hunt ($250,000)
Establishing a standardized SOC assessment model to evaluate SOC maturity across the DOE enterprise and enable better visibility of gaps and prioritization of requirements across the enterprise. The funding will be used to establish, train and test concepts for cybersecurity incident response Pursuit/Hunt teams which will significantly enhance our ability to proactively respond to and defeat a wide range of cybersecurity threats.

Activity: Integrated Joint Cybersecurity Coordination Center (iJC3) ($14,300,000)
Enhancing and maturing the iJC3 will lead to greater enterprise visibility to stay ahead of adversaries and cyber threats. iJC3 leads the coordination of all cyber information for the Department, identifies trends, and gains significant insight into cyber operations, helping to inform critical decision making and enhance situational awareness. This will enable stronger stakeholder awareness and cross-collaboration amongst the various department elements, ensuring that resources are being allocated efficiently across the Department.

Activity: Automated Indicator Sharing Modernization ($900,000)
Funding for this activity enables sustainment of a commercial off-the-shelf solution supporting machine-to-machine sharing of cyber threat intelligence, speeding up proactive defense and distributed detection for the DOE enterprise. This will provide automated signature delivery and indicators of compromise to automatically update cyber defenses, such as intrusion detection systems, intrusion prevention systems, and firewalls.

Activity: Big Data Platform ($9,181,000)
Continuing maturation of Big Data Platform (BDP) and incremental planned growth for Amazon Web Services GovCloud storage and compute will enable improved data analytics and visualization of Department-wide cybersecurity threats and trends. The funding will add storage enabling the Department to meet the increased logging requirements by aggregating the most critical data needed to support Department-wide incident response and threat hunting. This will allow OCIO to be more accountable to the Department and the broader federal government through performance metrics and improved reporting.

Activity: Cybersecurity Tools and Licensing ($4,200,000)
Funding supports sustainment, modernization, and operationalization of cybersecurity products or services, such as hardware, software, applications, and equipment designed to protect the DOE IT infrastructure and improve the iJC3's ability to detect, report, respond, and recover. Operationalizing cybersecurity products and services will enable more timely access to critical data and automated process support.

Activity: Deployable Incident Response Teams, Network Modeling, and Enhanced Exercise Program ($248,000)
Funding supports the identification, exercising, and equipping of incident responders across the DOE enterprise that can support crisis action planning and virtual or on-site incident response support during a major cybersecurity incident. Providing enhanced tools to perform on-site network modeling of effected networks.

Activity: Cyber Modernization Continuation/Maturity ($2,000,000)
Funding will be used to fund prioritized efforts in the Departmental Elements and National Laboratories to conduct pilots of new technology and sustain current efforts aligned to building a Zero Trust Architecture and securing cloud infrastructure across the Department to better defend DOE's critical information and infrastructure. Based on intent to fund numerous pilots in FY22, planning for a small amount to continue in FY23.

Activity: FireEre PCAP ($202,000)
FireEye PCAP (Packet Capture) is an application programming interface for capturing network traffic. In keeping with the White House OMB Memo 21-31, PCAP is the requirement for Enterprise Logging Level 1 application-level traffic. The network forensic tool will help detect a broad array of security incidents, assist in investigations to determine

scope and impact, effectively contain threats, and provide quicker recovery from events. The equipment is for monitoring and analyzing network traffic and protocol-based communications.

Activity: Encase ($150,000)
Encase is used in forensics to recover evidence from compromised hard drives. It allows the OCIO to conduct in-depth forensic analysis of user files to collect evidence such as documents, pictures, internet history and Windows Registry information. Encase is also vital to preserve the chain of custody in an event that evidence is needed for litigation purposes. Encase also plays a critical role in all incident response investigations by allowing the incident response team to remotely triage workstations that may have malicious code, potential compromise, attempted intrusions, etc. It is also used during classified data spillage incidents to remotely keyword search workstations. The requested funding will be dedicated to licensing renewal for cybersecurity software used for digital forensics analysis and reporting by Enterprise Assurance Incident Response Team.

Customer funding provided as part of EITS ($4,360,652)*
Cyber for EITS Detect ($4,360,652)
Funding anti-phishing and malware defense, intrusion prevention and incident management and response for EITS customers.
 * * WCF and customer fund dollars include OCIO contributions*

Budget Line: Shaping the Cybersecurity Environment – Identify and Recover ($29,945,000 – Request; $7,513,615 Customer) (TOTAL = $37,458,615)

To enable DOE to identify, assess, select, monitor, and report on risks, DOE will continue to mature its cybersecurity risk methodology to blend qualitative and quantitative risk management principles and demonstrate business use cases to answer tough questions. DOE will sustain and improve its supply chain as a service program, continue to improve business processes, streamline the security authorization process, and continue to emphasize operational risk versus compliance gaps.

Activity: Vulnerability Disclosure Program/Crowdsourced Penetration Testing (Sustain Bug Bounty) ($3,100,000)
In accordance with DHS/OMB requirements, the Department will continue to mature its Vulnerability Disclosure Program (VDP) across all public facing systems and websites. This funding will sustain the existing contract to manage the DOE VDP solution. Providing the portal for responsible vulnerability disclosure, triage of submissions, coordination of remediation and communication with researchers and sustain crowd source penetration testing. VDP and crowd source penetration testing are critical assessment tools that enable the identification, remediation and/or mitigation of vulnerabilities before they can be exploited by our adversaries.

Activity: Cybersecurity Modernization ($2,700,000)
Funding supports modernizing DOE's infrastructure and cloud based security through a secure, robust, and capable infrastructure and network, built on interoperable standards and architecture principles. Projects that make up the initiative, when completed, will support continued maturation and automation of the EITS Site Security Operations Center (SOC) capabilities in alignment with the overall DOE Enterprise. Specifically, FY 2023 funding will support continued modernization and automation of cybersecurity operations capabilities, including the transition from legacy on-premises capabilities and technologies to cloud native tools and capabilities, deployment of Artificial Intelligence (using Machine Learning) solutions to support automated log correlation activities, implementation of controls and methodologies to align with the DOE Controlled Unclassified Information (CUI) Order, support for enterprise initiatives, such as Metadata Taxonomy and Risk Management dashboards.

Activity: Supply Chain Risk Management as a Service ($4,000,000)
This funding is to sustain the enterprise Supply Chain Risk Management (SCRM) program that provides proactive supply chain security support for the DOE Enterprise. The program provides critical capabilities that guide, educate, and manage supply chain risks to National Security Systems and Information and Communications Technology (ICT) components and includes shared services, a common lexicon, and best practice procedures in procurement, delivery, and deployment of IT products and services that are used across the enterprise and select Federal

Departments/Agencies. This program is a critical enabler in supporting the Department's ability to meet FITARA requirements as well as regulatory requirements levied on the Power Marketing Administrations by NERC and FERC.

Activity: Enterprise Architecture (Previously Requirements Analysis and Integration) ($1,450,000)
Funding this activity supports maturing the DOE Enterprise Architecture Program initially focusing on management of the Technical Reference Model (TRM) on commercial off the shelf (COTS) software and expansion and Application Rationalization. This activity will continue furthering Business Architecture through DOE Business Reference Modeling, defining and integrating the Application Reference Model and defining a DOE Security Reference Model. A major objective of the Enterprise Architecture program is to conduct application rationalization to incrementally consolidate and retire systems and applications performing similar functions. The goal of the Enterprise Architecture program is to have a clear line of sight from the business and mission drivers to applications supported by COTS products captured in the Technical Reference Model. Funding will also support the expansion of the Enterprise Architecture repository tools to the broader DOE community.

Activity: Cybersecurity Strategic Communication Support ($720,000)
This funding is to add contractor support to help to drive cybersecurity by advancing our priorities through enhancing OCIO public advocacy/diplomacy and communications (including via social media and multimedia), executing thorough communications research, crafting quality briefing materials, and supporting various other executive-level actions. This activity provides cybersecurity strategic communications support to OCIO leadership in advancing the Department's cybersecurity missions through policy, standards, and services for the enterprise information system.

Activity: Cybersecurity Emergency Management Support ($300,000)
Operational and mission support for continuity of operations (COOP) and disaster recovery (DR) planning. Support includes planning and training for a comprehensive array of potential emergencies or disasters that may impact the continuity of operations and the performance of mission essential functions. This includes the development of tabletop exercises, SOPs, creating metrics to measure success and inform decision-making, updating portfolio plans, testing emergency communications and personnel accountability, maintaining vital records, and preparing for devolution and reconstitution contingencies.

Activity: Enterprise (EITS Customer Base) Identity ($2,369,000)
Funding is requested to provide additional licenses for the Saviynt Identity Governance and Administration system. Saviynt will provide for centralized collection of user identity data, full identity lifecycle management, and automated account provisioning. The new system will replace the legacy Management Information System (MIS) identity management data collection system. Scope of this system increased from an initial user base of EITS active directory (AD) users to a larger user base that accommodates all users of EITS systems including DAYS (ServiceNow) and Azure Active Directory. It also includes customers outside the EITS user base who use the contractor sponsorship workflow in MIS. Expansion of the scope of the project allows us to be a service provider to customers beyond our AD user base. Additional licenses are needed to support the expanded user base. This is a recurring annual fee for Saviynt SaaS services. This funding request accounts for both licensing and labor associated with implementing Identity and Access Management (IAM) driving towards compliance with EO 14028.

Activity: Strategy and Program Management, Security Authorization and Physical/Personnel Security Support and Planning, Policy and Enterprise Risk Management ($12,890,000)
Funding is requested to provide increased contractor labor capacity to account for increased tasking and demand related to: Mature and expand Enterprise Cyber Risk Management (ECRM) program; Mature Security Authorization Process; Optimize DOE- sponsored authorizations under the FedRAMP program; Compliance and Oversight Process Improvements; EO implementation Program Management and the continued management of the OCIO led Control Systems Working Group (CSWG) to develop a holistic roadmap to secure Operational Technology systems.

Activity: Continuous Diagnostics and Mitigation (CDM) Modernization CM License Lifecycle Maintenance of Enterprise Renewals ($1,616,000)
As responsibilities shift from DHS to DOE, funding is required to sustain enterprise licenses for critical CDM capabilities. Improving operational visibility and continuous monitoring relies heavily on our ability to know what is on our networks and the attack surfaces associated with those networks. DOE, in partnership with DHS and their CDM program office,

has made major investments in hardware and software asset management, continuous monitoring and reporting capabilities for the Department. The CDM program provides critical resources to help DOE comply with federal monitoring and reporting requirements through capability deployments and centralized data.

Activity: CDM Contract labor FTEs ($800,000)
In accordance with M-20-04, agencies are required to submit separate, CDM-specific line items in budget submissions. The funding request is for contract labor to support Software Asset Management, continuous monitoring, and reporting requirement in FY23 as the program grows.

Customer funding provided as part of EITS ($7,513,615)*
*Cyber for EITS ($7,513,615)**
Funding provides for authorization and policy and continuous diagnostics and mitigation (CDM) for EITS customers.

 WCF and customer fund dollars include OCIO contributions

Cybersecurity

Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Cybersecurity $71,800,000	**$92,361,000**	**+$20,561,000**
Protecting Networks and Information (Protect) $31,370,000	$30,985,000	-$385,000
Funds will support a Coordinated Cyber Response, Network Security Modernization- Infrastructure IT Modernization, Network Security Modernization- Data Center Modernization, Network Security Modernization- DOEnet/Esnet (Energy Sciences Network) & Trusted Internet Connections (TIC)/ Independent Assessment, Identity Credential and Access Management (ICAM), IT Modernization Support, Cybersecurity Training and Awareness, Bug Bounty, Program Management Oversight Emerging Technologies, Spectrum, and Cybersecurity Program Management are the planned initiatives.	Continue FY 2021 program activities with new requests for FY 2023: Anonymized Browser (Isolation) (+$500,000); Emerging Technologies (+$1,800,000); Coordinated Cyber Response/Cyber Training and Awareness (+4,600,000); Control Systems (CS) and Operational Technology Modernization (site Assessment & Tools) (+$2,158,000); Operations Technology (OT) / Control Systems (CS) Initiatives (+$1,000,000); Platform Engineering (+$1,000,000)	New initiatives of Anonymized Browser (Isolation) (+$500,000); Emerging Technologies (+$1,800,000); Coordinated Cyber Response/Cyber Training and Awareness (+4,600,000); Control Systems (CS) and Operational Technology Modernization (site Assessment & Tools) (+$2,158,000); Operations Technology (OT) / Control Systems (CS) Initiatives (+$1,000,000); Platform Engineering (+$1,500,000). Increases for: ICAM (+$671,000); Design and Engineering (ICC) (+$2,063,000); Managing DOE Spectrum Program (+$250,000). Decreases for Coordinated Cyber Response (-$3,100,000); Network Security Modernization- Infrastructure IT Modernization (-$1,807,000); Network Security Modernization- Data Center Modernization (-$4,107,000); Network Security Modernization-DOEnet/Esnet & TIC 3.0/ Independent Assessment (-$1,913,000); Cybersecurity Training and Awareness and Role Based Training (-$1,500,000); Sustain Bug Bounty/Crowdsourced Penetration Testing (Vulnerability Disclosure Program/ Crowd Source Pen Testing (-$2,500,000).

Activities and Explanation of Changes Continued

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Detect, Analyze, and Mitigate Intrusions (Detect and Respond) $26,950,000	$31,431,000	+$4,481,000
Funds will support the following initiatives: Integrated Joint Cybersecurity Center**,** Big Data Platform, Cybersecurity Tools and Licensing, Deployable Incident Response Teams, and Automated Indicator Sharing Modernization.	Continue FY 2021 program activities with new initiatives in FY 2023 include the following: SOC Assessment/ Pursuit/ Hunt (iJC3) (+$250,000); EO Cyber Reserve Pilot Continuation/Maturity (+$2,000,000); FireEye PCAP (+$202,000); Encase (+$150,000).	New initiatives of SOC Assessment/ Pursuit/ Hunt (iJC3) (+$250,000); EO Cyber Reserve Pilot Continuation/Maturity (+$2,000,000); FireEye PCAP (+$202,000); Encase (+$150,000). Increases for: Big Data Platform (iJC3) (+$3,181,000). Decreases for Integrated Joint Cybersecurity Coordination Center (iJC3) (-$100,000); Automated Indicator Sharing Modernization (iJC3) (-$600,000); Cybersecurity Tools and Licensing (iJC3 (-$300,000); Deployable Incident Response Teams, Network Modeling and Enhanced Exercise Program (iJC3) (-$302,000).

Activities and Explanation of Changes Continued

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Shaping the Cybersecurity Environment (Identify and Recover) $13,480,000	**$29,945,000**	**+$16,465,000**
Funds will support the following initiatives: Planning, Policy and Enterprise Risk Management; Cyber Supply Chain, MEGABYTE Act Tool, Requirements Analysis and Integration; iJC3 Cyber Operational Technology (OT) Protection; Strategy and Program Management; Security Authorization and Physical/Personnel Security Support; Data Center Optimization Initiative; 21st Century IDEA Act; Cybersecurity Strategic Communication; and Cybersecurity Emergency Management.	Continues FY 2021 program activities with new initiatives in FY 2023 Includes funding for new initiatives: CDM Contract Labor FTEs (+$800,000); Cybersecurity Modernization (+$2,700,000); Enterprise Identity (EITS Customer Base) (+$2,369,000); Strategy and Program Management, Security Authorization and Physical/Personnel Security Support and Planning, Policy and Enterprise Risk Management (+$12,890,000); Vulnerability Disclosure Program/ Crowd Source Pen Testing (+$3,100,000).	New initiatives for CDM FTEs (+$800,000); Cybersecurity Modernization (+$2,700,000); Enterprise Identity (EITS Customer Base) (+$2,369,000); Strategy and Program Management, Security Authorization and Physical/Personnel Security Support and Planning, Policy and Enterprise Risk Management (+$12,890,000); Vulnerability Disclosure Program/ Crowd Source Pen Testing (+$3,100,000). Increases for CDM Security Modernization- CDM License Lifecycle Maintenance of Enterprise Licenses Renewals (+$1,566,000); Supply Chain Risk Management as a Service (+$1,050,000). Decreases for Strategy and Program Management, Security Authorization and Physical/Personnel Security Support and Planning, Policy and Enterprise Risk Management (-$7,460,000); Enterprise Architecture (-$550,000).

Cyber Modernization / SolarWinds Response and Recovery

Overview

The FY 2023 President's Budget requests $59,006,000 to address the impacts of the SolarWinds incident at the Department of Energy. The purpose of the funding is to address response needs and does not focus on wholesale replacement of IT systems at this time. The funding request targets critical cybersecurity needs and prioritizes basic cybersecurity enhancements, including: cloud security, Security Operations Center (SOC) enhancements, encryption, Multi-Factor Authentication (MFA), increased logging functions, and enhanced monitoring tools.

Funding Breakout and Analysis

This section summarizes the program, activities, and the budget lines associated and aligned with the overall projected OCIO Cyber Modernization/ SolarWinds Response and Recovery:
- Cloud Adoption
- Detection and Response (EDR/Logging)
- Multifactor Authentication (MFA) and Data Encryption
- Zero Trust Architecture

Budget Line: **Cloud Technology Adoption - ($18,800,000 – Request) (TOTAL = $18,800,000)**

Activity: Cloud Adoption ($18,800,000)
Funding will be used to migrate applications to the cloud to meet the requirements of EO 14028. This effort will define cloud adoption standards and commonly used cloud architecture patterns for the major Cloud Service Providers (Amazon Web Services, Azure, and Google Cloud Platform). The cloud architecture patterns will be based off common migration use cases derived from asset inventories and discovery and will consider different stages of cloud maturity. An integrated platform service offering and enterprise repository will be established for pre-configured architecture components to allow for re-usable accelerators for cloud adoption. Development, security, and operations (DevSecOps) is the approach for automation and platform design to integrate security with cloud migrations. Funding will be used to implement DevSecOps tools to ensure consistent standards are applied for cloud migrations and runtimes. Funding will support defining cloud policy and governance, including cloud services configuration, integration, and authorized use to maintain security and compliance standards across providers. Funds will be used to establish a Cloud Center of Excellence (CoE) to support Cloud adoption understanding and planning. This effort will enable the front door for enterprise cloud knowledge management, providing the cloud education and expert support necessary for customers.

Budget Line: **Detection and Response (EDR/Logging) - ($20,700,000 – Request) (TOTAL = $20,700,000)**

Activity: Upgrade Boundary Monitoring Sensors ($3,350,000)
IM-33 will increase the footprint of network sensors, and further facilitate the tech refresh of the Cooperative Protection Program (CPP) legacy hardware solution. Funding will be used to procure security monitoring sensors and AWS Gov cloud infrastructure to serve as phase one of a full technology refresh of the Cooperative Protection Program (CPP) custom government-off-the-shelf (GOTS) system. The tech refresh will include 43 sensors to support 22 DOE field sites, National Laboratories, and PMA sites, as well as retain sufficient inventory to pre-stage new sensors and support the replacement of faulty equipment.

Activity: Endpoint Detection and Response (EDR) ($11,350,000)
Funding will be used for integrated endpoint security solution that combines real-time continuous monitoring and collection of endpoint data to mitigate cybersecurity threats. Integrating automation throughout these capabilities will improve the response to these threats and provide analytic tools to thwart future attacks. Funds will support monitoring services and provide enterprise visibility into infrastructure and applications to continuously monitor vulnerabilities. Funds will also be allocated towards implementing cyber analytic tools that analyze anomalous behavior to improve threat detection. Funds will be allocated towards implementing user and entity behavior analytics using commercial tools. Cyber Analytics will assist in baselining user traffic, perform anomaly detection, insider threat detection and enable custom alerting. Using analytics, teams can act on detection, automate quarantine, and review user behavior history. Funds will be used to implement logging as a service with event correlation for incident and problem management to enable visibility into data for security and operations. Standardizing logging for applications will simplify monitoring and alerting layers placed on top of the logging data.

Activity: Operational Technology (OT) Cybersecurity ($1,500,000)
Funds will support the establishment of operational technology (OT) cybersecurity maturity assessment as well as development of OT cybersecurity best practices and governance. Funding will be used to document and assess the current state and establish governance for OT cybersecurity. Funds will also support developing an Authorization to Operate (ATO) program for OT systems, leveraging National Institute Standards and Technology (NIST) guidance and cross-industry collaboration. Funds will also support OT education and training to address any knowledge gaps.

Activity: Security Operations Centers (SOC) Capability Maturity ($4,500,000)
Funds will support implementing Security Information and Event Management (SIEM) and Security Orchestration, Automation, and Response (SOAR) capabilities to aid DOE in preventing, detecting, assessing, responding, and investigating cyber incidents. Assessments of the current SOC maturity will inform areas of improvement. Funds will be allocated towards streamlining SOC operations and improving maturity. This effort also aligns with the Information Sharing EO category.

Budget Line: **Multifactor Authentication (MFA) and Data Encryption - ($8,003,000 – Request) (TOTAL = $8,003,000)**

Activity: Identity Services ($8,003,000)
Funding will enable enterprise sites and entities to utilize mature enterprise identity offerings for application integration. Funds will support completion of the roadmap for enterprise identity services in support of AWS, Azure, and Google Cloud Platform (GCP), including application integration and Privileged Access Management (PAM). Providing a suite of capabilities to strengthen identity proofing for temporary staff not included in the scope of HSPD-12 to elevate all staff to the highest Identity Assurance Level (IAL3) defined by NIST in Special Publication 800-63-3. To acquire software licenses promulgated by USAccess to issued derived PIV credentials which are impersonator resistant to both mobile devices and Yubikey containers, expand PKI impersonator resistant software certificates, develop requirements to integrate internal identity service with USAccess, acquire Yubikey devices to replace legacy smartcards, accelerate adoption of single sign-on using multifactor authentication, license and support enterprise privilege access management (PAM) solution to protect accounts with elevated rights, implement PKI key recovery services fo USAccess and internal DOE PKI, and modernize the Energy Global Directory Service exchanging PKI certificates DOE-wide supporting encryption of sensitive information.

Budget Line: **Zero Trust Architecture - ($11,503,000 – Request) (TOTAL = $11,503,000)**

Activity: Implement Zero Trust Principles ($11,503,000)
Funding will be used to develop a Zero Trust (ZT) Framework and Maturity Assessment Model. The ZT framework will be used as a guide for applications adopting ZT in accordance with EO 14028 and ZT standards. After ZT maturity assessments are conducted, ZT technical roadmaps will be developed for applications. A standard ZT adoption progress report will be developed for applications to report progress . Activities will also include establishing and promoting cyber workforce training opportunities and developing ZT related shared services. This effort will include implementing ZT pilots and support network engineering and configuration for network segmentation. Zero Trust Principles also aligns with the Unclassified data EO category.

Activities and Explanation of Changes Continued

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Cyber Modernization / SolarWinds Response and Recovery $0	**Cyber Modernization / SolarWinds Response and Recovery $59,006,000**	**+$59,006,000**
Funding will be targeted to support cloud security, Security Operations Center (SOC) enhancements, encryption, multifactor authentication, increased logging functions, and enhanced monitoring tools.	Continue FY 2022 program activities in FY 2023 for the following: Cyber response and recovery needs at the Department and enhances DOE's security posture to ensure protective measures are in place to prevent further incidents like SolarWinds.	Increase for Cyber Modernization / SolarWinds Response and Recovery (+$59,006,000)

Corporate IT Program Support

Overview

OCIO is requesting $31,235,000 for Corporate IT Program Support, which provides capital planning guidance, robust privacy and records management, IT products and services, and an efficient and effective IT platform. This request is an increase of $5,929,000 from the FY 2021 Enacted.

Highlights of the FY 2023 Budget Request
- Enhanced services and automation in Enterprise Governance and FITARA operations
- Increased support for information technology service management platforms and engineering skills for new projects
- Preparation of cloud based tools and FedRamp sponsorship for expanded enterprise use of EITS Cloud Network
- Increased support for building business architecture models and Innovation Community Center (ICC) Development
- Additional funding for professional services for sandbox subscriptions, tools, and advanced configurations.

Budget Line: IT Portfolio Summary ($22,881,000 – Request; $8,822,000 – WCF) (TOTAL = $31,703,000)

Activity: IT Investments for Mission Delivery and Management Support ($1,410,000)

Funding supports enterprise-wide solution delivery and transformation with improved data ingestion, curation, usage and sharing of solutions ensuring compliance with the Federal Data Strategy, Geospatial Data Act, and Foundations for Evidence-Based Policymaking Act. Outcomes include agile methodology and assist with transitioning from legacy practices through approaches, such as Learning Agendas. The Innovations Community Center (ICC) will help DOE entities to adopt new ways of doing business through both technology and processes. This funding supports product management and enterprise-wide adoption and transformation of products and services, online capabilities such as knowledge bases, communities of interest, and exchanges that allow for information to be shared across the agency. Geospatial Fabric: Infrastructure and Implentation of Geospatial Act.

Activity: Program Management Oversight ($4,875,000)

Funds will provide Program Integration and Innovation support for managing IT Support Services (ITSS) strategic sourcing vehicle for OCIO contracts in the areas of IT Management; Systems Development and Engineering; and IT Service Operations. Specifically, funds will support:
- Providing program management on projects, including tracking, monitoring, contractor oversight, and reporting project status and providing strategic guidance and recommendations to OCIO leadership to support evidence-based and data-driven decision-making to accomplish strategic goals of the OCIO.
- Supporting IT projects, assessing and shaping the demand pipeline for IT services across the agency, which will enable the OCIO to streamline the investment decision process for new IT products and services.
- Providing strategic design and innovation in order to clearly define and map issues, uncovering the root cause of customer pain points at project onset and developing an understanding of customer needs, preferences, and behaviors to design future state operations and enhance service delivery.
- Providing organizational change management in support of IT projects in order to account for the impact new initiatives have on operations, culture, and employees; and ensuring the capability to sustain continual IT refresh and innovation.

Activity: Proof of Concepts and Pilots ($557,000)
The project drives Innovation by using technology in new ways to create a more efficient organization and improve alignment between technology initiatives and business goals. Funding is requested for resources to develop use cases and to showcase next generation IT solutions to the DOE enterprise such as by using Artificial Intelligence for service automation. The resources will perform customer outreach, prototype high-level IT solutions, and determine the path to production. Existing governance and OCIO cloud offerings will be leveraged, if feasible, to provision the environment and deploy the solution.

Activity: IT Investments for Governance, Federal Information Technology Acquisition Reform Act (FITARA), IT Portfolio Management, Technology Business Management (TBM) Implementation, and IT Budget Acquisition Management ($6,528,000)

This activity supports the following:
- Directing DOE's operationalization of FITARA through IT governance; managing Department's IT investment; leading the Department's implementation of Technology Business Management (TBM) methodology; directing Departmental IT budgeting and acquisition management; and enhancing enterprise value-based IT investment decision-making.

- Leading IT planning, policy, and performance evaluation and managing strategic and tactical IT policy development, maintenance, and implementation through coordination with internal and external governance groups; and ensuring DOE compliance with e-Government requirements.

- Providing DOE enterprise oversight, support, and coordination on cybersecurity and information management legislative requirements to include Paperwork Reduction Act (PRA), FITARA, Section 508, and Enterprise tracking of IPv6 implementation; and providing technical and administrative services for governance organizations to yield effective, efficient, and secure application of information and IT for mission enhancement, operational excellence, and risk management.

- Enhancing operational efficiency through Digital Transformation to support strategic business decisions and agency compliance.

Activity: Policy and Performance Management ($4,045,000)
Funding will support the DOE Enterprise Records Management Program and enterprise Privacy Programs, as described in the sub-activities below.

Sub-Activity: Records Management ($2,280,000)
Funding supports preserving individual rights, keeping mission critical information available to the Department, and preserving the history of the United States by managing DOE's federal records in accordance with National Archives and Records Administration (NARA) and other Federal agency requirements. Additional funds requested for stand up of an Enterprise-wide electronic records management solution, as mandated by NARA and OMB. The solution will enable the Department to manage all permanent electronic records, including e-mail, in an automated manner. Funding is needed to continue supporting the deployment of the selected records management solution to cover all e-mail users that are provisioned by EITS, the Headquarters-based IT service provider. The records management solution will support Departmental elements, both as they currently operate and as they participate in the consolidation to Office 365. The end result will be a secure and scalable enterprise-wide solution, providing a consistent, accessible, and automated approach to electronic document and records management requirements.

Sub- Activity: Privacy Information Management ($1,765,000)
Funding fosters the protection of individual privacy interests and the promotion of fair information practice principle by supporting HQ-driven enterprise-wide privacy information management activities in accordance with Privacy Act, E-Government Act, and OMB Privacy directives to ensure compliance with federal laws, regulations, and standards, under the direction of the DOE Senior Agency Official for Privacy (SAOP), who is also the CIO. Additional funds are requested to procure an automated privacy compliance workflow management solution that will service the DOE enterprise. An automated solution is necessary to ensure that privacy documentation is compliant with federal requirements for the creation and management of electronic information and forms. In addition, the SAOP established the Department's Privacy Compliance Monitoring Program (PCMP) to review and assess DOE Element compliance with DOE Order 206.1 and other applicable Federal privacy laws and OMB privacy requirements. The PCMP will use site visits to meet with key field personnel, provide training, and conduct preliminary compliance evaluations.

Activity: FedRAMP ($650,000)
Funding will foster automation of privacy enhancing technology and records management tools by supporting FedRAMP preparation, compliance and sponsorship for expanded enterprise use on EITS Cloud Network of cloud based tools.

Activity: ePMO Tools ($486,000)
Funding supports increased agile adoption, utilizing resources to perform tool assessments and pilot Project Management tools. Funding will also support developing and maintaining the IT Project Management Dashboard and project analysis and prioritization.

Activity: Folio/eCPIC Tools ($330,000)
Funding supports the Folio IT Portfolio management tool.

Activity: CUI Implementation ($1,500,000)
The CUI program provides the means to identify and protect the Department's most sensitive unclassified information. The program was created by Executive Order and is codified at 32 CFR part 2002. The Department's near-term completion of its internal Directive for CUI implementation accelerates implementation activities. The request will support the development of guidance to DOE programs and officers, the development and delivery of enterprise-wide outreach and training, and the acquisition and implementation of novel technological solutions to support records identification and digital marking capabilities.

Activity: Records and Forms Digitization (was:*Digital Forms Modernization)* ($2,500,000)
This program will create a modern, cost effective, automated, and user-friendly approach to electronic records management. DOE currently holds more than 13,000 cubic feet of permanent and temporary federal records in paper format. By 2022, the National Archives and Records Administration (NARA) will cease accepting paper records from Federal Agencies. This means all existing paper records not sent to NARA before then will need to be digitized before they are sent to NARA. Currently, DOE lacks the ability to digitize a large volume of records. This request will help establish scanning and quality control processes, whereby the records program can have confidence that newly generated electronic copies can serve as the authoritative record copy. The program will first focus on existing HQ records but will also help jumpstart the effort across the Department. This program will also generate a fully electronic environment to develop and manage DOE forms across their entire lifecycle, from creation and approval to operational use and approval routing. It will incorporate processes for OMB review and Paperwork Reduction Act, Privacy Act, and compliance with Section 508 of the Americans with Disabilities Act. This effort will reduce the creations of paper records requiring digitization and meet agency requirements to manage all records electronically.

<u>Summary of Funding from Working Capital Fund – Interagency Transfers business line ($8,822,000)*</u>
<u>*Records Storage at NARA*</u>
Funding supports the annual agreement with NARA to provide records services and storage consistent with approved records schedules.

- *Integrated Acquisition Environment*
  Provides for Interagency Agreement with the General Services Administration (GSA) to provide packaged services.

- *E- Government initiatives*
  Initiatives include consolidation studies of lines of businesses and other intergovernmental systems.

- *OPM Credit Monitoring*
  Funds credit monitoring services for all DOE employees following the Office of Personnel Management (OPM) Personally Identifiable Information (PII) data breach.

*WCF and customer fund dollars include OCIO contributions

Budget Line: End User – IT Infrastructure ($4,170,000 – Request) (TOTAL = $4,170,000)

<u>Activity: MEGABYTE Act Tool ($250,000)</u>
Request will supports tools to aggregate software deployed across DOE into the enterprise architecture repository for real time access by elements across DOE. The resulting data is consumed into the enterprise architecture tool to form the DOE-wide Technical Reference Model containing COTS software products deployed across DOE. Software contained in the Technical Reference Model is reviewed for conformance to the DOE enterprise architecture policies to assure COTS software no longer supported by the vendor is removed from the environment. The Technical Reference Model informs the DOE Enterprise-wide Agreement program to achieve the objectives of the MEGABYTE Act to consolidate software acquisitions to achieve savings from aggregated acquisitions using DOE, GSA, and other Government-wide acquisition vehicles. The DOE Enterprise Architecture Governance Board (EAGB) reviews candidate software for addition to the Enterprise-Wide Agreement program on a bi-monthly basis.

<u>Activity: 21st Century IDEA Act ($2,020,000)</u>
The agency has procured an enterprise cloud services to provide digital forms with electronic signatures and enterprise Web Modernization tools to fix and validate the 20 most visited websites. The agency is required under the 21st Century IDEA to report annually on the 21st Century IDEA web modernization and other efforts to meet requirements set forth in the Act. This activity includes the sub-activities listed below:

Sub-Activity: Web Modernization Enterprise Tool to perform 508 compliance across the Agency ($500,000)
To ensure the agency is compliant with the 21st Century IDEA Act and the Web Modernization guidelines, this tool will be run against the 61 domains and 5,200 sub-domains across the agency. This tool and the technical expertise are needed to support and maintain the tool.

Sub-Activity: Digitization of Paper-based Forms ($1,220,000)
The Enterprise Cloud services to support and maintain this complex solution requires technical staff as well as the several cloud environments to support not only the internal federal customers but the public as well. This funding is necessary to operate and maintain the system and to ensure DOE has a reliable system to ensure that public engagements and obligations are met. Funding supports the ServiceNow and Adobe managed cloud infrastructure as well as provides the professional services to document and automate workflows, approvals and electronic signatures. In order to continue support of paper-based forms to digital and the increase demand from customers to use the system this is vital to the mission of the Department. This service requires multiple skill sets to support the solution that has been put in place and will need the funding to support the staff necessary to support the operations of the system.

Sub-Activity: Electronic Signature ($300,000)
In support of M-19-17 and M-00-15, this funding will support the infrastructure needed to provide electronic signatures to the public domain. The increasing demand to use electronic signatures make it necessary to continue to support the operations and maintenance of the system. This will include the information technology service management platform licenses and staff that will provide helpdesk support, maintenance, and operations support of the platform.

Activity: Data Center Optimization Initiative (DCOI) Program ($1,900,000)
To help with meeting the mandates set forth in OMB -19-19 and Federal Information Technology Acquisition Reform Act (FITARA), it is important to fund software licensing of the Data Center Infrastructure Management tools to help keep the facilities more energy efficient by monitoring the heating and cooling of the building and further the efforts for application rationalization inside the data centers. This activity also supports the automated reporting and development work of the Enterprise Data Analytics Repository System (eDARS). These funds will support enterprise efforts to centralize the data across the agencies' data centers and help fund critical skill sets with supporting Data Centers and information technology service management cloud platforms.

1Budget Line: End User - EITS ($4,184,000 – Request; $40,022,493 – WCF; $78,769,230 Customer) (TOTAL = $122,975,723)

Activity: EITS Payment ($3,996,000)
Funds desktop services for the EITS business line.

Activity: Customer Advocacy Support ($188,000)
To provide a dedicated forum to understand our customers lines of business. The formal standup of Customer Advocacy is pivotal and central to an effective Information Technology Service Management (ITSM) strategy. Funding is for personnel to perform customer engagement in support of ITSM.

Summary of Funding from Working Capital Fund – Telecommunications business line ($40,022,493)*
Provides connectivity for DOE Headquarters and field operations through Local and Wide Area Networks and telecommunications (telephone) services. LAN connections provide access to the EITS application host systems and cybersecurity for the internet, e-mail, and other applications. Provides for the annual network technology refresh as part of lifecycle management, which is necessary to address current risks in the areas of security and availability in the core and distribution layers of existing DOE network infrastructure. By investing in a more modern network infrastructure, the Department will enhance network cybersecurity controls and will further support the collaboration capabilities being requested within the Department.

Summary of Funding from Customers – Shared Services direct billing ($78,769,230)*
Provides for End User Services, including asset management, help desk and deskside support, and information technology service management platform application support.

WCF and customer fund dollars include OCIO contributions

Corporate IT Program Support

Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Corporate IT Program Support $25,306,000	**$31,235,000**	**+$5,929,000**
IT Portfolio Summary $17,529,000	**$22,881,000**	**+$5,352,000**
Funding will support the following activities: IT Investments for Mission Delivery and Management Support; Program Management Oversight; Proof of Concepts; IT Investments for Governance, Federal Information Technology Acquisition Reform Act (FITARA), TBM Implementation, Paperwork Reduction Act (PRA), FITARA, Section 508, IPv6, Digital Transformation and OCIO Functions; Policy and Performance Management; Enterprise Project Management Office(ePMO) Tools; Folio/ Electronic Capital Planning and Investment Control (CPIC) Tools and FedRAMP..	Funding will continue FY 2021 activities and new initiatives. Funding increases within base are provided for the following areas: IT Portfolio Management, TBM Implementation, and CIO Functions Data Collection and FISMA Reporting for enhanced services and automation; Proofs of Concepts Pilot; Policy and Performance Management Privacy.	Overall increase reflect adjustments for: an Increase in Geospatial Act and SAOGI/GIO Initiatives (+$464,000); and IT Investments for EA, IT Portfolio Management and TBM Implementation, Governance, and CIO Functions- Data Collection, FISMA Reporting and Analysis (+$888,000). The request includes new activities: CUI Implementation (+$1,500,000); Digital Forms Modernization (+$2,500,000).

Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
IT Infrastructure $3,781,000	**$4,170,000**	**+$389,000**
Funding will support MEGABYTE Act Tool; Data Center Optimization Initiative; and 21st Century IDEA Act.	Funding will continue to support MEGABYTE Act Tool; Data Center Optimization Initiative; and 21st Century IDEA Act.	Increase of funding for Data Center Optimization Initiative (+$369,000); 21st Century IDEA Act (+$20,000).
End User - EITS $3,996,000	**$4,184,000**	**+$188,000**
This is funding for the EITS services that EITS itself consumes – it is a customer of its own services.	Continuation of FY 2022 activities and new initiatives.	Continuation of FY 2022 activities. New initiative Customer Advocacy Support (+$188,000).

Overview
OCIO is requesting $51,129,188 for Program Direction to provide funding for 142 FTEs and associated costs for the overall management OCIO corporate program management and operations, acquisitions/contract administration, human capital management and budget support, as well as Working Capital Fund requirements.

Highlights of the FY 2023 Budget Request
The Office of the Chief Information Officer (OCIO) is requesting 18 additional Federal FTEs to increase our ability to provide critical information technology and cybersecurity support to the Department. OCIO is responsible for managing and executing critical cybersecurity defense, data protection, and policy and program oversight. Additionally, in FY2021 the release of EO 14028, *Improve the Nation's Cybersecurity*, levies requirements for moving to a Zero Trust Architecture, enhancing Cloud Security, and improved incident response which all requires additional federal FTEs to accomplish program management, governance, and execution of required tasks. Specific projects are focused on secure cloud implementations, data encryption, supply chain risk management, and zero-trust architecture. Identification and security of critical information, to include records and privacy data are critical elements of the Department's strategy to improve the cybersecurity posture of the Department.

Program Direction
Funding ($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted ($)	FY 2023 Request vs FY 2021 Enacted (%)
Headquarters					
Salaries and Benefits	25,232	25,232	30,963	+5,731	+23%
Travel	304	304	336	+32	+11%
Support Services	3,325	3,325	3,325	-	0%
Other Related Expenses	14,233	14,233	16,505	+2,272	+16%
Total, Program Direction	**43,094**	**43,094**	**51,129**	**+8,035**	**+19%**
Federal FTEs- Program Direction Funded	124	124	142	+18	15%
Federal FTEs- WCF Funded	3	3	3	-	0%
Support Services					
Technical Support Services	1,515	1,515	1,515	-	0%
Business, Finance, and Procurement	1,810	1,810	1,810	-	0%
Total, Support Services	**3,325**	**3,325**	**3,325**	**-**	**0%**
Other Related Expenses					
Training	160	160	160	-	0%
Working Capital Fund (WCF)	11,228	11,228	13,162	+1,934	15%
Desktop Services	2,333	2,333	2,671	+338	13%
Security Investigations	512	512	512	-	0%
Total, Other Related Expenses	**14,233**	**14,233**	**16,505**	**+2,272**	**14%**

Program Direction

Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
$43,094,000	**$51,129,188**	**+$8,035,188**
$25,232,000	**$30,963,000**	**+$5,731,000**
Funding supports federal staff salaries and related benefits for 124 FTEs.	Funding supports federal staff salaries and related benefits for 142 FTEs.	This increase provides for the current federal staff and 18 new FTEs in FY 2023.
Travel $304,000	**$336,000**	**+$32,000**
Funding supports mission-critical travel for federal staff.	Funding supports mission-critical travel for federal staff.	Increase outreach activities to collaborate with field sites on technology enhancements and OCIO priorities.
Support Services $3,325,000	**$3,325,000**	**0**
($1,515,000) Funding sustains operations within the front office of the CIO. Funds support contractor activities and memberships/subscription services for the CIO and senior staff.	($1,515,000) Continuation of activities.	($0) No change from FY 2022 Request.
($1,810,000) Funding used to maintain contractor activities in the areas of Financial Management, Budget and Internal Controls; Acquisitions; and Human Capital. These activities are critical to programmatic operations and accomplishment of program goals.	($1,810,000) Continuation of activities.	($0) No change from FY 2022 Request.
Other Related Expenses $14,233,000	**$16,505,188**	**+$2,272,188**
($160,000) Training costs to ensure all FTEs are appropriately trained to perform their duties, and development opportunities are available to CIO's federal staff.	($160,000) Continuation of activities.	($0) No change from FY 2022 Request.
($11,228,000) WCF funding level accounts for estimated OCIO overhead expenses.	($13,162,188) Continuation of activities.	(+$1,934,188) Increased to cover anticipated WCF costs.
($2,333,000) Desktop Services funds are used to provide IT services and hardware to employees.	($2,671,000) Continuation of activities.	(+$338,000) Increase to cover anticipated increase in EITS costs.
($512,000) Security Investigations	($512,000) Continuation of activities.	($0) No change from FY 2022 Request.

Office of Management
Program Direction

Overview

The Office of Management (MA) provides the Department of Energy (DOE) with centralized direction and oversight for the full range of management, acquisition, administrative services, and conference management support. These services are critical in supporting the mission of the Department and its program offices, as well as keeping the Headquarters (HQ) operational. MA's activities include policy development and oversight, and delivery of procurement services to DOE HQ organizations, and the management of HQ facilities. MA also fulfills the statutory and Executive Order responsibilities of the Senior Real Property Officer, Senior Procurement Executive, Chief Sustainability Officer and the Department's Advisory Committee Management Officer.

For FY 2023, MA will accomplish its mission through its program office components and associated Departmental budget lines:

- Acquisition Management – Provide corporate oversight, leadership, and develop and assist in the implementation of DOE-wide policies, procedures, programs, and management systems pertaining to procurement and financial assistance, contract management, professional development, and related activities to provide procurement services to Headquarters elements. The Director, Office of Acquisition Management serves as the Senior Procurement Executive.
- Administration – Manage HQ facilities and support services, including operations management, leased and office space management, supply management, travel (domestic and international), transportation/courier services, concession services (through the General Services Administration), exchange visitor program, mail/printing service, and the Department's Freedom of Information Act program.
- Asset Management – Develop and maintain DOE policies, regulations, standards, and procedures while tracking performance pertaining to real estate, facilities and infrastructure management, and personal property to include motor vehicle fleet management. Assist senior leadership with planning and execution decisions related to the acquisition, utilization, condition, maintenance, and disposition as they relate to real and personal property. Manage DOE's real property database and excess screening process. Manage the professional development, training, and certification of personal property and realty specialists. Ensure implementation of statutory and executive requirements across the Department. Coordinate data collection, reporting, and analysis of DOE's sustainability data, including energy, water, petroleum, and resource use. Manage and implement DOE's Strategic Sustainability Performance Plan, DOE's Climate Adaptation and Resilience Plan, and provide oversight of energy, water, sustainable buildings, and resource assessments at DOE sites and National Laboratories. Manage electric vehicle activities to further the President's goal of electrifying the Federal motor vehicle fleet. The Director of the Office of Management serves as the Chief Sustainability Officer. Additionally, the Director of Asset Management serves as the Senior Real Property Officer, and the Head of the Contracting Activity for Real Estate.
- Aviation Management – Manage all DOE-owned aircraft, manned and unmanned, and contract aviation services world-wide by developing and implementing policies and procedures; provide technical and management assistance to program leaders and field elements with aviation responsibilities; and conduct oversight over all DOE elements that own or use aviation as a part of their mission.
- Directives Program – Manage the Department's Directive System, the primary system for establishing, promulgating, and maintaining long-term, crosscutting, departmental policies and procedures, thus, facilitate the achievement of DOE's strategic and operational goals, while ensuring safe, secure, efficient, cost-effective operations and compliance with applicable legal requirements. Support the Department's Secretarial Delegations of Authority system.
- Executive Secretariat – Facilitate quality document management of executive correspondence, departmental actions and decisions; ensure timely delivery of Congressional reporting requirements, executive commitments and information; serve as the Department's Advisory Committee Management Officer and manage the Department's Advisory Committee Management Program.
- Ombudsman – Provide independent, confidential, and informal option for all DOE federal employees to address any workplace issues and help the Department's senior leaders, managers, and supervisors minimize unwarranted distractions; increase employee engagement; and expeditiously address individual and organization matters.

- Secretary of Energy Advisory Board (SEAB) – Administer and coordinate the activities of the Board and its subcommittees for the Secretary to obtain timely, balanced, and independent external advice on issues of national importance related to the missions of the Department.
- Scheduling and Advance – Manage scheduling, logistical, and advance preparations for the Office of the Secretary.

Highlights of the FY 2023 Budget Request

The FY 2023 Budget Request of $86,317,000 is a $31,959,000 increase above the FY 2021 Enacted Budget and supports 206 full time equivalent employees. The additional funding provides essential support for MA's mission success and fulfillment. Highlights of specific activities, services, and initiatives are as follows:

- $39,815,000 (+$5,528,000) for payroll costs in support of up to 206 FTEs for the execution of MA's mission. Additional funding will support critical mission focused acquisitions/procurement positions and increase the hiring capacity to address other vital operational needs.
- $16,000,000 (+$16,000,000) for purchases of Zero Emission Vehicles (ZEVs) within agency-owned vehicles fleets or as part of a transition from GSA-leased gas-powered vehicles to GSA-leased ZEVs. This funding also includes related charging infrastructure and program management costs associated with executing this funding to further the President's goal of electrifying the Federal motor vehicle fleet.
- $13,743,000 (+$1,471,000) for Working Capital Fund (WCF) estimated expenses that support program operations, staff operations, staff benefits, as well as provide agency mission support.
- $4,458,000 (+$3,306,000) for Energy Information Technology Services (EITS) expenses to cover day-to-day operational requirements for laptops, software, support services, and other essential IT equipment/services. It also provides funding to cover equipment in support of the increased telework due to the pandemic.
- $4,085,000 (+$450,000) for mission focused contractual support services used for systems, services, staff, activities, and initiatives. The increase covers escalation costs for contracts which supports the Department's Directives Program System, MA's Cybersecurity initiative, Conference Management policy compliance, and travel policy support, as well as other MA activities, systems, initiatives, and services.
- $2,768,000 (+$1,844,000) for the Freedom of Information Act (FOIA) contractual support services in support of day-to-day operational support of processing costs for inquiries.
- $2,207,000 (+$2,207,000) for the Strategic Integrated Procurement Enterprise System (STRIPES) Development, Modernization, and Enhancements (DME) Plan to increase efficiencies using Robotic Process Automation (RPA) and Artificial Intelligence (AI) for the DOE Acquisition and Financial Community.
- $1,233,000 (+$1,153,000) for Asset Management in support of the Sustainability Performance Dashboard to achieve and maintain sustainability goals in accordance with statutory and executive order requirements through data collection, analysis, reporting, and outreach. This funding also helps improve the capabilities and functions of the Dashboard, which will continue to reduce the reporting burden, enhance data quality, and allow programs to leverage the information for strategic operational decisions.

Office of Management
Funding ($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs. FY 2021 Enacted ($)	FY 2023 Request vs. FY 2021 Enacted (%)
Salaries and Benefits	34,287	34,287	39,815	5,528	16%
Travel	867	867	867	0	0%
Support Services	3,955	3,955	9,564	5,609	142%
Other Related Expenses	15,249	15,249	20,071	4,822	32%
Electric Vehicles	0	0	16,000	16,000	0%
Total, Program Direction	**54,358**	**54,358**	**86,317**	**31,959**	**59%**
Federal FTEs—MA	**206**	**206**	**206**	**0**	**0%**
Federal FTEs—WCF	**40**	**40**	**38**	**-2**	**-5%**
Support Services					
Management Support	1,804	1,804	7,008	5,204	288%
Other Support Services	2,151	2,151	2,556	405	19%
Total, Support Services	**3,955**	**3,955**	**9,564**	**5,609**	**142%**
Other Related Expenses					
Training	151	151	151	0	0%
Energy IT Services (EITS)	1,152	1,152	4,458	3,306	287%
Working Capital Fund (WCF)	12,272	12,272	13,743	1,471	12%
Other Services	1,674	1,674	1,719	45	3%
Total, Other Related Expenses	**15,249**	**15,249**	**20,071**	**4,822**	**32%**

Explanation of Changes Table
Office of Management - Funding ($K)

Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Program Direction $54,358	**$86,317**	**+$31,959**
Salaries and Benefits $34,287	**$39,815**	**+$5,528**
Funding in support of up to 206 FTEs. Funding provides for salaries/benefits, overtime, lump sum leave, awards allocations, and performance awards.	Continued funding supports salaries/benefits, overtime, lump sum leave, awards allocations, and performance awards for up to 206 FTEs. Additional funding to cover pay raise adjustments and increase hiring capacity for critical positions.	+$5,528 for pay raise adjustment/cost of living adjustment and hiring capacity increase.
Travel $867	**$867**	**$0**
Funding in support of MA/SEAB staff travel; all travel associated with scheduling and logistics for Secretarial trips, travel associated with program oversight and evaluation, and procurement management activities. Includes the rental of vehicles from the General Services Administration motor pool and the DOE fleet.	Funding in support of MA/SEAB staff travel; all travel associated with scheduling and logistics for Secretarial trips, travel associated with program oversight and evaluation, and procurement management activities. Includes the rental of vehicles from the General Services Administration motor pool and the DOE fleet.	No change.
Support Services $3,955	**$9,564**	**+$5,609**
Funding supports MA activities including ACMP, Cross Agency Priority Goals/Council Payment, SPD contractual requirements, FOIA processing costs and contractual requirements.	Funding supports continuation of MA activities including ACMP, Cross Agency Priority Goals/Council Payment, SPD contractual requirements, FOIA processing costs, Directives Program System, and other contractual requirements. Additional funding supports FOIA, Sustainability Performance Dashboard, STRIPES DME, and contractual support services cost escalations.	+$2,207 for STRIPES DME, RPA and AI initiative. +$1,844 for FOIA cases processing costs. +$1,153 for the Sustainability Performance Dashboard maintenance. +$405 for contractual support services cost escalations.
Other Related Expenses $15,249	**$20,071**	**+$4,822**

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Other related expenses funding to cover EITS, WCF, training and other services necessary for organizational mission support.	Other related expenses funding supports continuation of EITS, WCF, training and other services necessary for organizational mission support. Additional funding covers operational expenses for WCF and EITS.	+$3,306 for EITS costs to cover laptops, software, support services, and other essential equipment/services. +$1,471 for WCF activities/services costs. +$45 for contractual support services cost escalations.
Electric Vehicles $0	**$16,000**	**+$16,000**
N/A	Funding for electric vehicles purchases and leases to further the President's goal of electrifying the Federal motor vehicle fleet.	+$16,000 for electric vehicles purchases, leases, and charging equipment.

Office of Project Management
Program Direction

Overview
The Office of Project Management (PM) provides the Department of Energy (DOE) leadership and assistance in developing and implementing DOE-wide policies, procedures, programs, and management systems pertaining to project management. The Director, Office of Project Management (PM-1) serves as the Deputy Secretary's senior advisor for project management. PM is directly accountable to and supports the Deputy Secretary as the Executive Secretariat of the Department's Energy Systems Acquisition Advisory Board (ESAAB) and the Project Management Risk Committee (PMRC). The Deputy Secretary chairs the ESAAB. PM conducts statutorily required independent cost estimates and conducts external independent reviews to validate performance baselines as required by DOE Order 413.3B for capital asset projects with a Total Project Cost (TPC) of $100,000,000 or greater. PM manages the Department's Project Management Career Development Program (PMCDP) for DOE's Federal Project Directors.

In FY 2023, PM will accomplish its mission through its program office functions:
- **Energy Systems Acquisition Advisory Board (ESAAB).** The PM Director serves as Executive Secretariat (and member) of the ESAAB and the PMRC for the Deputy Secretary. The Board reviews all capital asset projects with a Total Project Cost (TPC) of $100,000,000 or greater. The Board focuses on projects at risk of not meeting their performance baselines and on making critical decisions for capital asset projects with a TPC of $750,000,000 or greater. The ESAAB is a standing board that meets at least once quarterly and is supported by the PMRC, which meets at least monthly. Additional ESAAB and PMRC meetings are scheduled as necessary to support departmental objectives and Program Office and project team schedules.
- **Project Management Policy and Systems (PMPS).** PM provides DOE-wide policy, guidance, and oversight for project management. PM provides senior leaders with monthly project status reports with independent assessments of all capital asset projects with a TPC greater than $50,000,000 with a goal of driving improvements in project management and project delivery outcomes. PM maintains the Project Assessment and Reporting System (PARS), the Department's independent central repository for project performance data, project management metrics and key project documentation.
- **Independent Cost Reviews/Estimates.** PM conducts independent cost reviews (ICRs) or prepares statutorily required independent cost estimates (ICEs) at critical decisions including re-baselining, as required by DOE Order 413.3B for capital asset projects with a TPC of $100,000,000 or greater. All costs associated with the conduct of ICRs/ICEs, are funded by the Program Office/Project requiring it.
- **Project Oversight.** PM conducts external independent reviews (EIRs) to validate the project performance baselines (scope, cost, and schedule) of all capital asset projects with a TPC of $100,000,000 or greater. Additionally, PM ensures projects are ready to be brought forward to the appropriate Project Management Executive (PME) for authorization to proceed prior to each critical decision.
- **Project Assessments.** PM conducts annual independent project peer reviews (PPRs) of all active energy programs capital asset projects with a TPC of $100,000,000 or greater under the purview of the Office of the Under Secretary of Science and Energy and the Office of Petroleum Reserves, under the purview of the Under Secretary for Infrastructure, and all Office of Environmental Management projects with a TPC of $400,000,000 or greater and those projects that have experienced post CD-3 challenges. All costs associated with conducting PPRs, to include PM federal staff travel, is funded by the appropriate Program Office.
- **Earned Value Management System (EVMS) Certification.** PM conducts initial certification and periodic surveillance reviews to ensure contractors' EVMS, for capital asset projects, comply with industry standards. All costs associated with the conduct of Reviews for Cause (RFC) and recertification of a contractor's system that had its certification withdrawn, to include PM federal staff travel, are funded by the Program Office/Project requiring the RFC or recertification reviews.
- **Project Management Support Office.** PM serves as the Project Management Support Office (PMSO) for all energy programs under the purview of the Office of the Under Secretary of Science and Energy and the

Office of Petroleum Reserves, under the purview of the Under Secretary for Infrastructure. In collaboration with the Program Offices, PM performs all PMSO functions in accordance with DOE Order 413.3B, as appropriate.

- **Professional Development.** PM manages the Department's Project Management Career Development Program (PMCDP) to include the professional development, training, and certification of Federal Project Directors (FPDs). The PM Director serves as co-chair and Executive Secretariat for the FPD Certification Review Board (CRB).

Highlights of the FY 2023 Budget Request

In FY 2023, the Department requests $13,550,000. The Director, Office of Project Management (PM-1) is the Deputy Secretary's senior advisor for project management. The Office of Project Management (PM) is accountable to and serves the Deputy Secretary as the Executive Secretariat for the Department's Energy Systems Acquisition Advisory Board (ESAAB) and the Project Management Risk Committee (PMRC). PM executes critical Department-wide functions to include preparing statutorily required independent cost estimates; performing external independent reviews to validate performance baselines; conducting earned value management system certification and surveillance reviews; providing project management policy; guidance, and oversight of all capital asset projects; and manages the Project Management Career Development Program (PMCDP).

Program Direction
Funding ($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Request	FY 2023 Request vs. FY 2021 Request (%)
Program Direction					
Salaries and Benefits	6,008	6,008	6,284	+276	5%
Travel	274	274	274	0	0%
Support Services	5,177	5,177	5,389	212	4%
Other Related Expenses	1,541	1,541	1,603	+62	4%
Total, Program Direction	**13,000**	**13,000**	**13,550**	**+550**	**4%**
Federal FTEs	**31**	**31**	**31**	**0**	**0%**
Support Services					
External Independent Reviews (EIRs)	1,773	1,773	1,985	212	11%
Earned Value Management System (EVMS) Certification	1,247	1,247	1,247	0	0%
Project Assessment and Reporting System (PARS)	2,000	2,000	2,000	0	0%
Other Support Services	157	157	157	0	0%
Total, Support Services	**5,177**	**5,177**	**5,389**	212	4%
Other Related Expenses					
Training	20	20	20	0	0%
Energy IT Services	480	480	533	+53	11%
Working Capital Fund (WCF)	1,041	1,041	1,050	+9	1%
Total, Other Related Expenses	**1,541**	**1,541**	**1,603**	**+62**	**4%**

Program Direction

Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Program Direction $13,000,000	**$13,550,000**	**+$550,000**
Salaries and Benefits $6,008,000	**$6,284,000**	**+$276,000**
Funding in support of 30 FTEs.	Continuation of FY2021 activities.	The increase assumes 4.6% pay increase in civilian salaries, FERS increase, and supplemental funds for performance award pool increase in FY 2023.
Travel $274,000	**$274,000**	**$0**
Funding in support of PM staff travel. Travel is necessary to support review activities (excluding Baseline Change Proposals (BCPs), Reviews for Cause (RFC), and Earned Value Management System (EVMS) recertification reviews) of program/project activities in the field.	Continuation of FY2021 activities.	No Change.
Support Services $5,177,000	**$5,389,000**	**$212,000**
Funding in support of contractual requirements, including External Independent Reviews (EIRs), Project Peer Reviews (PPRs), Earned Value Management System (EVMS) certification and surveillance reviews, Project Assessment and Reporting System (PARS).	Funding supports the continuation of FY2021 activities.	Increase in EIRs scheduled.
Other Related Expenses $1,541,000	**$1,603,000**	**+$62,000**
Other related expenses to cover Energy IT Services (EITS), Working Capital Fund (WCF) and other services.	Continuation of FY2021 activities.	Increase for WCF contract annual adjustments, space, and computer support for estimated FTEs.

Chief Human Capital Officer
Program Direction

Overview

The Office of the Chief Human Capital Officer (HC) supports the Department of Energy's (DOE) mission through workforce services and solutions. In support of the Department, HC strives to provide the most efficient and effective human resources (HR) services and human capital programs and meet its fundamental deliverable to customers—enhancing their ability to fill vacant positions in a timely manner with quality hires. This is accomplished through collaborative and responsive partnerships, proactive problem identification and resolution, and innovative and sound human capital management services. HC advises and assists the Secretary and Deputy Secretary of Energy (and other agency officials) in recruiting, staffing, developing, training, and managing a highly skilled, productive, and diverse workforce, in accordance with merit system principles and all applicable statutory requirements.

Highlights of the FY 2023 Budget Request

The Department requests $35,366,000 in FY 2023 for HC to support current operational levels, increase federal personnel to accelerate hiring and close the gap between enacted and current departmental staffing levels, and maintain its vital customer service mission. This request will provide sufficient resources to support ongoing initiatives related to developing more agile, cost-effective operations and a long-term vision for modernizing hiring practices, as well as improving the ability of the DOE workforce to deliver mission outcomes. This includes rebuilding capacity across DOE and reducing time-to-hire. Additionally, it will enable HC to enhance its operational capacity to carry out personnel actions and conduct strategic workforce planning related to proposed Departmental programmatic changes in the FY 2023 budget. HC is strategically positioned to provide oversight of human capital matters that pertain to DOE programmatic priorities, increase targeted outreach to underserved communities, surge hiring to close existing gaps as well as in support of the *Bipartisan Infrastructure Law*, changes to skill requirements of existing personnel, and fluctuating staffing levels—this includes an emphasis on workforce planning and development of effective talent management strategies to ensure DOE can successfully perform its mission.

HC Shared Service Center

In FY 2022 HC re-organized DOE's Consolidated Human Resources (HR) Oak Ridge Shared Service Center (ORSSC) and the HC Headquarters staff into the HC Shared Service Center (HCSSC) to create a more expansive SSC structure to provide the resources necessary to support the unique missions of HC's 32 HQ customers and their associated field offices. The HCSSC provides the full range of human capital management operational functions to support Federal employees (executive and non-executive). The HCSSC provides HR transactional services as well as recruitment, advisory, and consultative services to ensure consistent and seamless HR operational services are provided to our serviced population. Additionally, HC's Office of Talent Management; Office of Corporate Executive Management; Office of Policy, Labor and Employee Relations; and Office of Business Operations are now part of the HCSSC allowing us to provide an all-inclusive shared service approach on the full range of HC services and functions for our customers. Responsibilities include recruitment, staffing, classification, administering benefits, processing personnel actions, entering and maintaining employee data to DOE's Corporate Human Resources Information System (CHRIS) and other personnel systems, establishing and maintaining employees' electronic Official Personnel Folder (eOPF) in accordance with OPM regulations, and supporting personnel data requests from DOE and OPM.

This request provides for 148 FTEs to accelerate closing the hiring gap in approved versus onboard Department staffing levels (over 1,000 vacancies) and strengthen the Department's Intern Hiring program, and to support the Talent Teams. In addition, HC directs user funded human capital work ($17,200,000) for 90 FTEs provided by Memoranda of Agreement with: Environmental Management (30 FTEs), Energy Efficiency and Renewable Energy (12 FTEs), Energy Information Administration (2 FTEs), Fossil Energy and Carbon Management (15 FTEs), Nuclear Energy (5 FTEs) and Science (26 FTEs).

<u>Talent Teams and Assessments</u>

DOE is implementing new Talent Teams to bring us into compliance with Executive Order 13932 *Modernizing and Reforming the Assessment of Federal Job Candidates.* These teams will work with subject matter experts from our serviced organizations to develop and/or implement new assessment tools for technical competencies as well as automated solutions to analyze and streamline the hiring process while more effectively assessing job applicants based on demonstrated job-related competencies. Additionally, these teams will work with our Office of Recruitment and Advisory services to increase our targeted outreach to underserved communities. HC requests $1,400,000 to support 6 FTEs to staff these teams as well as for the development or procurement of assessment and outreach tools to support the initiative.

<u>HR Information Technology Enhancements</u>

The Department requests continued funding for the following IT enhancements. These investments will enable the Department to leverage data as a strategic asset for workforce management. HC will continue to explore DOE integrated IT solutions that reduce labor intensive data integration from multiple systems, improve data analytics, and automate recurring Human Capital processes. This includes evaluating software solutions to support resume review, applicant tracking, and technology to support virtual job fairs in support of surge hiring and strengthening our intern hiring program. Additionally, HC is using database development to create integrated data reporting from multiple data sources and researching other technologies to better match the recruitment needs of DOE Hiring Managers.

Implementation of USA Hire
HC requests $100,000 to implement *USA Hire*. *USA Hire* is OPM's innovative and interactive assessment tool that integrates with DOE's hiring management system *USA Staffing* built by Industrial and Organization Psychologists and uses assessment methods that are better predictors of job performance than assessments that allow applicants to self-report on their level of expertise, thereby improving DOE's candidate pool of applicants received.

HR Information Technology Platform
HC requests $500,000 to support continued collaboration with DOE's Chief Financial Officer (CFO) and Chief Information Officer (CIO) to study and identify Agency solutions for our HR IT platform to expand technological capabilities to improve personnel processing/recruiting efficiencies through metrics and data analytics. Efforts continue in the migration of the Corporate Human Resources Information System to the upgraded PeopleSoft v9.2 scheduled to be completed at the end of FY23. Migration was delayed for development and implementation of the position management module in v9.1 to better manage and monitor agency staffing plans and to better manage positions regarding recruiting and employee lifecycle management. This migration will allow the implementation of security patches that are vital in ensuring highly sensitive employee data is protected to the greatest extent. Work is also slated to commence in FY23 for the development of a telework management module to more effectively manage the workforce of the future. All these efforts will enable HC to produce quantitative and qualitative analyses that help drive human capital business decisions and reduce labor intensive, ineffective, and costly methods for triangulating workforce information.

HR Dashboard
HC requests $400,000 for continued evaluation, design, and implementation of alternative solutions to Human Capital Management (HCM) systems that support integration, enhanced recruit management dashboard capabilities, and real-time data access to assist DOE senior leaders and front-line managers' decision making aligned with a workforce of the 21st century. HC will work in conjunction with CFO and OCIO, to identify options that will best meet DOE's future HCM service delivery needs. These efforts may include leveraging existing software available through OCIO or procuring new innovative solutions that will allow HC to explore Integration Platform as a Service, Software as a Service and Artificial Intelligence technologies to meet customer data and dashboard needs.

Program Direction
Funding ($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted ($)	FY 2023 Request vs FY 2021 Enacted (%)
Washington Headquarters					
Salaries and Benefits	18,716	18,716	26,365	+7,649	+41%
Travel	150	150	150	-	0%
Support Services	653	653	1,100	+447	+68%
Other Related Expenses	5,399	5,399	7,751	+2,352	+44%
Total, Program Direction	**24,918**	**24,918**	**35,366**	**+10,448**	**+42%**
Federal FTEs*	**134**	**134**	**148**	**+14**	**+10%**
HC Shared Service Center (HCSSC) FTEs**	**89**	**89**	**90**	**+1**	**+1%**
Support Services					
Management Support					
Training and Education	100	100	100	-	0%
Other Support	553	553	1000	+447	+81%
Total, Support Services	**653**	**653**	**1100**	**+447**	**+68%**
Other Related Expenses					
Other Services	607	607	2,140	+1,533	+253%
Energy IT Services	739	739	973	+234	+32%
Working Capital Fund	4,053	4,053	4,638	+585	+14%
Total, Other Related Expenses	**5,399**	**5,399**	**7,751**	**+2,352**	**+44%**

*HC's FTE level of 148 includes funding for 23 FTEs supporting the HCSSC.
**HCSSC Operations and FTEs are funded separately through Memoranda of Agreements from six programs outside of HC (Energy Efficiency and Renewable Energy, Environmental Management, Energy Information Administration, Fossil Energy and Carbon Management, Nuclear Energy, and Science)

Activities and Explanation of Changes

FY2021 Enacted	FY2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Program Direction $24,918,000	**$35,366,000**	**+$10,448,000**
Salaries and Benefits $18,716,000	**$26,365,000**	**+$7,649,000**
Provides for 134 full time equivalents (FTEs). In addition to salaries and benefits, funding is also provided for workers' compensation payments on behalf of all employees funded through the HQ Departmental Administration appropriation and two former employees receiving workers' compensation from the now closed Alaska Power Administration (APA). FTEs support core HC mission functions of policy development, oversight, and automation; learning and development; HR operations and services (including executive resources, staffing/classification, benefits, and labor management relations); strategic alignment and measurement of human capital management; and internal business management.	Supports increase to 148 FTE level, which supports core HC mission functions by fully funding the approved staffing plan, additional FTE to accelerate hiring and outreach efforts, and Talent Teams, as well as workers' compensation payments.	Includes 14 additional FTE, 4.6% increase in civilian salaries, FERS increase, and supplemental funds for performance awards in FY 2023.
Travel $150,000	**$150,000**	**$0**
HC staff travel includes program oversight, program evaluation, recruitment, and permanent change of station moves. Primary travel need is associated with OPM-mandated accountability audits critical to maintaining agency-delegated HR authority.	Continuation of required HC staff travel activities and DC HQ visits of remote staff. HC uses WebEx and Teams for internal meetings and partners with other internal organizations and web and video conference as feasible.	
Support Services $653,000	**$1,100,000**	**+$447,000**
Includes funding for: HC staff training; HC core contractors and services for the HC Shared Service Center (HCSSC); HC share of DOE Consolidated HR Service Support (retirement calculator, Employee Assistance Program - Worklife); other HC Licenses subscriptions; and other HR tools (Partnership for Public Service, CHCO Council, survey tool, CyberFeds).	Continuation of HC core contract support, and augmentation of service for HR surge work from contractor support due to variability of staffing within the department (separation, retirements, onboards).	Contract escalation increases and initial funding of new contractor support vehicle to perform surge staffing actions and increase hiring capacity to quickly close the departments hiring gaps.

Other Related Expenses $5,399,000	$7,751,000	+$2,352,000
Other Related Expenses (ORE) provides for Working Capital Fund (WCF) and Energy IT Services (EITS). Includes funding for HC-internal office administration needs (e.g., software and hardware, Council fees, small automation system support, rent for HR HC Shared Service Center (HCSSC) facility in Oak Ridge.	Continuation of WCF and EITS services, as well as HC Headquarters Security Investigations. Funds modernizing HR IT systems/tools, data analytic tools, workforce forecasting models, centralized DOE Corporate Recruitment initiatives, and customized tools to improve/automate manual HR processes (e.g., licenses for SharePoint, Business Intelligence, Lever and Dashboard contractor support).	Increase supports inflationary escalation of WCF and EITS cost as well as increases due to additional 14 FTE; CFO/CIO/HC collaborative improvements to HR IT Platform and licenses for customized tools.

<center>**Office of Small and Disadvantaged Business Utilization**
Program Direction</center>

Overview

The Office of Small and Disadvantaged Business Utilization (OSDBU) was established by the Small Business Act (SBA) of 1953, as amended by Public Law 95-507. The OSDBU is responsible for advocating the use of small businesses, including Small Disadvantaged Businesses (SDB), certified 8(a) businesses, small businesses from Historically Underutilized Business Zones (HUBZone), Service-Disabled Veteran-Owned Small Businesses (SDVOSB), and Women-Owned Small Businesses (WOSB). This involves promoting small business prime and subcontracting opportunities in accordance with Federal laws, regulations, and policies and reporting to Congress on DOE utilization of small businesses.

The goals of the OSDBU are to institutionalize the use of small businesses and to fully integrate them into the U.S. Department of Energy's (DOE) competitive base of contractors and to help the Department meet its statutory goals for small business utilization. To accomplish this goal, the OSDBU established and executes its mission through three strategic objectives: 1) make it easier for small businesses to do business with DOE; 2) maximize small business opportunities by cultivating more productive and collaborative relationships with internal DOE Stakeholders; and 3) maximize small business awards and improving performance in the four SBA socioeconomic categories.

The OSDBU is organizationally structured to accomplish this through four enabling activities:

1) Availing the technical advice and expertise of the OSDBU staff and the cadre of Departmental Small Business Program Managers (matrixed to OSDBU) to both DOE programs officials and small businesses;

2) Promulgating educational resources such as the DOE Acquisition Forecast, trainings and informational exchanges;

3) Adhering to OSDBU compliance requirements such as the 15 U.S. Code § 644(k), also known as the SBA Act, establishing a cadre of Small Business Technical Advisors within the agency to support the implementation of small business procurements, Form-4220 Reporting, Category Management considerations, threshold reviews; and

4) Planning and execution of outreach activities such as networking and matchmaking at DOE's Annual Small Business Forum and Expo, and targeted outreach events focused on socioeconomic categories. Administering and providing information and counseling concerning DOE's Mentor-Protégé Program, as well as customer support to small businesses.

The OSDBU serves as a liaison between the small business community and the DOE procurement offices.

Program Direction
Appropriation Level and Program Level
Funding ($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs. FY 2021 Enacted ($)	FY 2023 Request vs. FY 2021 Enacted (%)
Washington Headquarters					
Salary & Benefits	$2,554	$2,554	$3,001	$447	18%
Travel	$10	$10	$30	$20	200%
Support Services	$300	$300	$49	-$251	-84%
Other Related Expenses	$522	$522	$745	$223	43%
Total, Program Direction	**$3,386**	**$3,386**	**$3,825**	**$439**	**13%**
Federal FTEs	12	12	17	0	0%
Other Related Expenses					
EITS	$57	$57	$233	$176	309%
Working Capital Fund	$450	$450	$502	$52	12%
Training	$15	$15	$10	-$5	-33%
Total, Other Related Expenses	**$522**	**$522**	**$745**	**$223**	**43%**

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Program Direction
Activities and Explanation of Changes

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FY 2021 Enacted	FY 2023 Request Level	Explanation of Changes FY 2023 Request Level vs. FY 2021 Enacted
Program Direction $3,386,000	**$3,825,000**	**$439,000**
Salaries and Benefits $2,554,000	**$3,001,000**	**$447,000**
Provides funding for 12 FTEs.	Provides full funding for 17 FTEs.	Includes 4.6% increase in civilian salaries and performance awards.
Travel $10,000	**$30,000**	**$20,000**
Funding for participation in outreach events, training, and counseling, as well as one-on-one meeting with small businesses.	Funding for participation in outreach events, training, and counseling, as well as one-on-one meetings with small businesses.	Funds are typically for staff to host annual Expo and for Director and staff to conduct outreach activities to Small and Disadvantage Businesses
Support Services $300,000	**$49,000**	**-$251,000**
Funding for contractor support for management support services and subscription services.	Funding for contractor support for management support services, data analysis, event marketing, document creation, maintenance, and subscription services.	Reduction in contractor support and subscription services.
Other Related Expenses $522,000	**$745,000**	**$223,000**
Funding for Working Capital Fund, IT services, and staff training and development, and other services.	Funding for Working Capital Fund, IT services, telecom, staff training and development, as well as other services.	Increased funding for projected increases in Departmental IT, EITS and cybersecurity costs.

General Counsel

Overview

The Office of the General Counsel (GC) is responsible for providing legal services to all Department of Energy offices, and for determining the Department's authoritative position on any question of law with respect to all Department offices and programs, except for those belonging exclusively to the Federal Energy Regulatory Commission. GC's responsibilities include the provision of legal opinions, advice, and services to administrative and program offices, and participation in or management of both administrative and judicial litigation. GC is responsible for the coordination and clearance of proposed legislation affecting energy policy and Department activities. The General Counsel serves as the Department's Regulatory Policy Officer under Executive Order 12866 and is responsible for ensuring consistency and legal sufficiency of the Department's regulations. GC administers and monitors standards of conduct requirements, conducts patent program and intellectual property activities, and coordinates rulemaking actions of the Department with other federal agencies.

As requested by DOE Programs that manage their own National Environmental Policy Act (NEPA) policy and compliance reviews, GC environmental attorneys also provide legal advice and counsel regarding NEPA on an ad hoc basis.

Highlights of the FY 2023 Budget Request

The Office of the General Counsel's request supports 145 FTEs ($7.58 million over FY 2021 Enacted). The increase in funding is due to depleted prior year carryover and reflects the results of a recent OPM Organization and Workload Analysis indicating a workload strain on GC staff equivalent to the need for an additional 14 FTEs. The FY2023 Request does not include funding of 49 FTEs currently being funded by other DOE Programs via MOAs: 1) 24 FTEs paid for by NE to manage the Nuclear Waste Fund, administer the Standard Contract, and provide legal services for nuclear waste disposal activities, including interim storage; 2) 13 FTEs paid by EERE to provide legal counsel and review of all EERE rulemakings and guidance documents, statutory interpretation of EERE authorities, and legislative review of all EERE-related legislation; 3) 10 FTEs paid by OCED to lead efforts to deliver clean energy technology demonstration projects at scale in partnership with the private sector; and 4) 2 FTEs paid by EM to support complex procurements, defend bid protests, and address environmental law issues, including clean-up of federal management of hazardous waste facilities (RCRA) and response to abandoned, uncontrolled hazardous waste sites (CERCLA).

GC's FY 2023 request will seek full funding to support appropriate staffing levels to ensure the quality, availability and expertise of legal support required to confidently meet the Administration's new and expanded priorities, in addition to satisfying continuing program missions and needs to include increased cost for annual maintenance of the Intellectual Property System (IP), implemented in FY 2021 and annual subscription cost for the Electronic Financial Disclosure System (e-450), which allows for a completely secure, paperless, filing and approving of financial disclosure requirements.

New in FY 2023 Request is $500,000 supplemental NEPA funding to provide ad hoc legal advice and counsel regarding NEPA Policy Compliance and Review on DOE Program infrastructure projects supported by the *Infrastructure Investment and Jobs Act of 2021 (IIJA)* and other Federal funding sources.

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted ($)	FY 2023 Request vs FY 2021 Enacted (%)
Washington Headquarters					
Salaries and Benefits	23,482	23,482	31,066	7,584	32%
Travel and Training	150	150	150	-	0%
Support Services	1,825	1,825	1,901	150	9%
Other Related Expenses	9,543	9,543	10,105	395	4%
NEPA			500	500	0%
Total, Program Direction	**35,000**	**35,000**	**43,722**	**8,129**	**23%**
Federal FTEs Paid by GC DA Funds	129	128	145	-	0%
Federal FTEs Paid by other sources	37	37	49	-	0%
Total GC FTE's	**182**	**165**	**194**	**-**	**0%**
Support Services					
Administrative Support	825	825	852	27	3%
Technical Support	500	500	539	39	8%
Intellectual Property System	500	500	260	-240	-48%
Financial Disclosure System	0	0	250	250	100%
Total, Support Services	**1,825**	**1,825**	**1,901**	**76**	**4%**
Other Related Expenses					
Energy IT Services	1,400	1,400	1,530	130	9%
Working Capital Fund	6,801	6,801	6,937	136	2%
Other Services	1,342	1,342	1,638	296	22%
Total, Other Related Expenses	**9,543**	**9,543**	**10,105**	**562**	**6%**

Program Direction

Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY23 Request vs FY 2021 Enacted
Program Direction $35,000,000	**$43,722,000**	**+$8,722,000**
Salaries and Benefits $23,482,000 Provides funding support for 129 FTE to include salaries, benefits, overtime, etc.	$31,066,000 Provides funding support for 145 FTEs to include salaries, benefits, overtime, etc.	+$7,584,000 (+$7.58M) Increase reflects increase of 14 FTEs; 4.6% pay increase in civilian salaries, FERS increase, and retirement leave for approx. 30 federal employees.
Travel & Training $150,000 Provides for travel to attend court proceedings, site visits, conferences, and training.	$150,000 Provides for travel to attend court proceedings, site visits, conferences, and training.	$0 No change in activity
Support Services $1,825,000	**$1,901,000**	**+$76,000**
Provides for Administrative & Technical support and includes IP & Financial Disclosure Systems	Provides for Administrative & Technical support and includes IP & Financial Disclosure Systems	(+$76K) Increase in support costs, increase with addition of Financial Disclosure System O&M and increase to IP Systems (Sophia) for additional needs.
Other Related Expenses $9,543,000	**$10,105,000**	**+$562,000**
Energy IT Services $1,400,000 Provides GC IT service including workstations and on-site support, FISMA reviews and reporting, etc.	$1,530,000 Provides GC IT service including workstations and on-site support, FISMA reviews and reporting, etc.	(+$130K) No change in service, inflation for anticipated cost increases in FY 2022 and FY2023.
Working Capital Fund $6,801,000 Provides for rent, telecommunications, I-Manage, supplies, copiers, printing, etc.	$6,937,000 Provides for rent, telecommunications, I-Manage, supplies, copiers, printing, etc.	(+$133K) No change in service; anticipated cost increases.
Other Services $1,340,000 Provides for Online Legal subscription, Law Library Materials, US Patent Office charges for DOE patents, E-Gov, office furniture, etc.	$1,638,000 Provides for Online Legal subscription, Law Library Materials, US Patent Office charges for DOE patents, E-Gov, office furniture, etc.	(+$298k) Anticipated increase in legal subscription costs. Project costs for VTC installation in 2 conference rooms and replacement of office glass walls no longer considered safe by modern building code standards.
NEPA $0	**$500,000**	**+$500,000.00**

(+$500k) Increase for new line item for GC-54 to provide ad hoc legal advice and counsel regarding NEPA Policy Compliance and Review.

Office of Policy
Program Direction

Overview
The Office of Policy serves as the principal advisor to the Secretary, Deputy Secretary, and Undersecretaries on domestic energy policy and related integration of energy systems. Additionally, the Office of Policy provides analysis and input to Congress, the White House, and other agencies on domestic energy policy. Areas of focus for the Office of Policy reflect the most pressing issues of the day: energy prices; economic competitiveness and the energy supply chain; climate change and clean energy policy; energy jobs; community access to safe, clean, affordable energy; and scientific innovation. The Office of Energy Jobs is part of the Office of Policy. Funding for the Arctic Energy Office (AEO) comes from the Office of Policy.

The Office serves as a focal point for policy coordination within the Department on the analysis, formulation, development, and advancement of Secretarial and Administrative priorities; and related programmatic options and initiatives that support the transition to a secure, prosperous, equitable, and zero-emissions energy economy. OP coordinates policy and strategic cross-cutting functions across DOE elements and shapes strategy and policy consistent with service to the American people and the Secretary's vision for DOE. Much of OP's work is connected to expertise or information in the various program offices across the Department, and OP works closely with other offices to harmonize activities, maximize results, and avoid duplication.

The increased request from FY 2021 to FY 2023 reestablishes energy policy work as an essential function to support urgently needed technology, economic, job creation, and emissions reduction goals. OP is staffed by an interdisciplinary team of experts, with the technical and communications skills to formulate policy pathways to achieve the Secretary's strategic vision within the full breadth of DOE's statutory mission. OP carries out strategic studies and policy analysis and maintains and coordinates a supporting set of analytical capabilities. This work spans:
- technology policy, including energy decarbonization pathways and impacts analysis;
- deployment and infrastructure policy, including systems analysis and energy prices;
- state, local, and tribal policy analysis, including integrated approaches to technical assistance,
- and energy jobs.

The Office of Energy Jobs is a significant FY 2023 priority, with goals of supporting the creation of good-paying jobs with a fair chance to join a union and bargain collectively in the clean energy workforce, while creating pathways for energy transitioning communities. This work includes a focus on workforce development standards to ensure equitable and good job creation that pays family-sustaining wages, while engaging the larger labor community on energy issues through the DOE Labor Working Group. The Office of Energy Jobs provides guidance to program offices and Labs throughout the DOE complex on fair labor practices, including regular workforce-related consultation on the design of DOE programs and reports. The Office leads DOE-wide coordination on energy jobs and collaborates on interagency and Congressional activities. The Office of Energy Jobs will administer the DOE Jobs Council and publish the United States Energy and Employment Report, which is a vital and high-visibility source of data for those in the energy sector. The Office of Policy provides significant support to interagency working groups on several topics, including the Interagency Working Group on Coal and Power Plant Communities and Economic Revitalization, as well as job creation analysis and union stakeholder engagement.

The Arctic Energy Office (AEO), supported out of the OP budget, brings together assets from across DOE to work together in collaborative and innovative ways to meet the energy, science, and national security needs of the United States and its allies. AEO serves as the front door for DOE in Alaska and the global Arctic. AEO is focused on energy transitions in the context of climate changes – natural, political, economic – that are rapid and trans-regional. To accomplish its mission, AEO collaborates with the Office of the Secretary, relevant DOE program and staff offices, National Laboratories, other federal agencies, universities, non-profits, and the private sector. FY 2023 efforts will be aligned with the needs, opportunities and priorities set forth in the multi-year/multi-organization arctic research agenda under development in FY 2022.

The FY 2023 Budget Request of $31,073,000 is a $24,073,000 increase above the FY 2021 Enacted Budget which supports up to 43 full time equivalent employees - an increase of 26 FTEs. The additional funding provides critical support for OP's mission fulfillment to include the Office of Energy Jobs and funding for the Arctic Energy Office.

Program Direction
Funding ($K)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs FY 2021 Enacted ($)	FY 2023 Request vs FY 2021 Enacted (%)
Washington Headquarters					
Salaries and Benefits	3,144	3,144	8,748	5,604	178%
Travel	42	42	328	286	681%
Support Services	2,183	2,183	19,267	17,084	783%
Other Related Expenses	1,631	1,631	2,730	1,099	67%
Total, Program Direction	**7,000**	**7,000**	**31,073**	**24,073**	**344%**
Federal FTEs	**17**	**17**	**43**	**26**	**153%**
Support Services					
Other Support Services	2,183	2,183	19,267	17,084	783%
Total, Support Services	**2,183**	**2,183**	**19,267**	**17,084**	**783%**
Other Related Expenses					
Working Capital Fund	1,358	1,358	1,880	522	38%
Training	75	75	100	25	33%
Energy IT Services	206	206	680	474	230%
Other Expenses	25	25	70	45	180%
Total, Other Related Expenses	**1,631**	**1,631**	**2,730**	**1,066**	**65%**

Office of Policy
Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs FY 2021 Enacted
Program Direction $7,000,000	**$31,073,000**	**+$24,073,000**
Salaries and Benefits $3,144,302	**$8,748,000**	**+$5,603,698**
Provides funding for 17 FTEs to include salaries and benefits.	Funding for salaries and benefits for the 43 FTEs to support increased workload, including additional energy jobs staff. Includes funds for Arctic Energy Office.	• Funding provides for salaries/benefits, overtime, lump sum leave, awards allocations and performance awards. Increase covers 4.6% civilian pay raise; funding for additional salaries and benefits for FTEs.
Travel $42,000	**$328,000**	**+$286,000**
Provides funding to support travel by staff, including travel to accompany the Secretary and DOE senior leadership.	Continuation of FY 2021 activities and travel to support Arctic Energy office in Fairbanks, Alaska and Energy jobs.	• Funding supports return to pre-COVID-19 travel by staff, including travel to accompany the Secretary and DOE senior leadership.
Support Services $2,183,000	**$19,267,000**	**+$17,084,000**
Provides support services needed for FY 2021 technical analysis and administrative requirements including the U.S. Energy Employment Report (USEER).	Continuation and expansion of FY 2021 activities. Additionally, supports ability to obtain research tools, annual subscriptions, other contractor support used for analysis activities. Analysis activities include data processing, systems modeling, forecasting, strategic planning, evaluation, and other approaches.	• Funding will support ability to obtain research tools, such as subscriptions, other contractor support used for analysis activities including workshops, other reports, and the US Energy Employment Report. Significant clean energy policy analysis work is required to meet ambitious technology, economics, jobs, and emissions goals.
Other Related Expenses $1,630,698	**$2,730,000**	**+$1,099,302**
Provides funding to support business costs associated with the Department's Working Capital Fund; IT equipment and support.	Continuation of FY 2021 activities and increased services and equipment related to working capital, IT, to support increase of 26 FTEs.	• +$522K WCF increase • +$474K IT services/equipment • +$70K Training and other expenses

Public Affairs
Program Direction

Overview
The mission of the Office of Public Affairs (PA) is to communicate information about DOE's work in a timely, accurate, and accessible way to the news media and the general public.

PA directly supports the DOE mission by developing and implementing strategies for communicating the Department's mission, policies, initiatives, and information to the news media and the general public. PA is also responsible for managing and coordinating public affairs activities for DOE headquarters, field offices, and laboratories; serving as DOE's primary spokesperson in the news media; responding to requests for information from the public and the news media; arranging interviews with Department officials; providing speechwriting and media support services to the Secretary, Deputy Secretary and Under Secretaries; and preparing written press releases, fact sheets, electronic media and other products that communicate Departmental activities.

Through its Digital Strategy and Communications Office, PA continues to effect cost savings at the Department by consolidating website platforms, reducing duplication, and improving accessibility of information. The Digital Strategy and Communications Office drives the Department's mission online via the Energy.gov website, social networking tools, blog outreach, citizen engagement tools, and other emerging online communication technologies. Digital Strategy and Communications is an innovative and growing part of the mission, as PA seeks to serve the public in more efficient and effective ways online. It is through the Digital Strategy Office that PA is making government more collaborative and participatory.

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request	FY 2023 Request vs. FY 2021 Enacted ($)	FY 2023 Request vs. FY 2021 Enacted (%)
Washington Headquarters					
Salaries and Benefits	2,068	2,068	3,922	+1,854	90%
Travel	190	190	190	0	0
Support Services	911	911	1,011	100	11%
Other Related Expenses	831	831	813	-18	-2%
Total, Program Direction	**4,000**	**4,000**	**5,936**	**+1,936**	**49%**
Federal FTEs	21	21	27	0	0
Other Related Expenses					
Energy IT Services	113	113	145	+32	28%
Working Capital Fund	718	718	668	-50	-7%
Total, Other Related Expenses	**831**	**831**	**813**	**-18**	**-2%**

<p align="center">**Program Direction**</p>

Activities and Explanation of Changes

FY 2021 Enacted	FY 2023 Request	Explanation of Changes FY 2023 Request vs. FY 2021 Enacted
Program Direction $4,000,000	**$5,936000**	**+$1,936,000**
Salaries and Benefits $2,068,000	**$3,922,000**	**+$1,854,000**
Provides funding for 21 full time employees (FTE). This includes DOE's team of media spokespersons, a New Media team managing digital communications and website efforts, the speechwriting team that supports the Secretary and other senior officials and program offices, and the administrative staff required to support DOE's mission.	Continuation FY 2021 activities and full funding for 27 FTEs.	Increase to fully fund staff of 27 and 4.6% percent pay raise for Federal employees, FERS benefits increase in FY 2023.
Travel $190,000	**$190,000**	**$0**
Travel expenses support the office's ability to provide appropriate staffing to the Secretary and Deputy Secretary; Staff travel for video production and presentations at conferences to enhance the DOE mission; enhanced video projects across complex; and other media projects.	Continuation of FY 2021 activities.	No change.
Support Services $911,000	**$1,011,000**	**+$100,000**
Support services include continued contractor support to upgrade and maintain the Department's digital communications and website efforts. Funding also supports initiation of contractor services.	Support services include continued contractor support to maintain and upgrade the Department's digital communications and website efforts.	The increase accounts for contractor support to maintain the Department's upgrade and website efforts
Other Related Expenses $831,000	**$813,000**	**-$18,000**
Funding of Working Capital Fund and Energy IT services for 21 FTEs.	Funding of Working Capital Fund and Energy IT services for 27 FTEs	Decrease in WCF billing.