

**S. 2333, Energy Cybersecurity Act of 2019**

As reported by the Senate Committee on Energy and Natural Resources on October 23, 2019

By Fiscal Year, Millions of Dollars	2020	2020-2024	2020-2029
Direct Spending (Outlays)	0	0	0
Revenues	0	0	0
Increase or Decrease (-) in the Deficit	0	0	0
<b>Spending Subject to Appropriation (Outlays)</b>	<b>23</b>	<b>355</b>	<b>832</b>
Statutory pay-as-you-go procedures apply?	No	<b>Mandate Effects</b>	
Increases on-budget deficits in any of the four consecutive 10-year periods beginning in 2030?	No	Contains intergovernmental mandate?	No
		Contains private-sector mandate?	No

S. 2333 would direct the Department of Energy (DOE), in consultation with others, to establish a research, development, and demonstration program to develop advanced cybersecurity applications and technologies for the energy sector. The bill also would direct DOE to establish a cybertesting and mitigation program to identify vulnerabilities in the energy sector, and it directs DOE to establish other operational support and risk assessment programs to secure electric, natural gas, and oil transmission and delivery. The bill would authorize the appropriation of \$100 million a year for those purposes.

Based on information from DOE and historical spending patterns for similar activities, CBO estimates that implementing S. 2333 would cost \$355 million over the 2020-2024 period and \$832 million for the 2020-2029 period, subject to appropriation of the authorized amounts.

The costs of the legislation (detailed in Table 1) fall within budget function 270 (energy).

**Table 1.  
Estimated Budgetary Effects of S. 2333**

	By Fiscal Year, Millions of Dollars										2020-2024	2020-2029
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
	<b>Increases in Spending Subject to Appropriation</b>											
Authorization	100	100	100	100	100	100	100	100	100	0	500	900
Estimated Outlays	23	60	80	94	98	100	100	100	100	77	355	832

CBO staff contact for this estimate is Sofia Guo. The estimate was reviewed by H. Samuel Papenfuss, Deputy Assistant Director for Budget Analysis.