



# CONGRESSIONAL BUDGET OFFICE COST ESTIMATE

August 10, 2016

## **H.R. 5638** **Solar Fuels Innovation Act**

*As passed by the U.S. House of Representatives on July 11, 2016*

H.R. 5638 would authorize the appropriation of \$150 million annually over the 2017-2020 period for the Department of Energy to perform basic research to develop experimental systems to convert solar energy into chemical energy. Assuming appropriation of the authorized amounts, CBO estimates that implementing H.R. 5638 would cost \$579 million over the 2017-2021 period.

Pay-as-you-go procedures do not apply to this legislation because enacting it would not affect direct spending or revenues. CBO estimates that enacting H.R. 5638 would not increase net direct spending or on-budget deficits in any of the four consecutive 10-year periods beginning in 2027.

H.R. 5638 contains no intergovernmental or private-sector mandates as defined in the Unfunded Mandates Reform Act (UMRA) and would impose no costs on state, local, or tribal governments.

### **ESTIMATED COST TO THE FEDERAL GOVERNMENT**

The estimated budgetary impact of H.R. 5638 is shown in the following table. The costs of this legislation fall within budget function 250 (general science, space, technology).

	By Fiscal Year, in Millions of Dollars					2017- 2021
	2017	2018	2019	2020	2021	
<b>INCREASES IN SPENDING SUBJECT TO APPROPRIATION</b>						
Authorization Level	150	150	150	150	0	600
Estimated Outlays	83	128	150	150	68	579

## **BASIS OF ESTIMATE**

For this estimate, CBO assumes that H.R. 5638 will be enacted near the end of fiscal year 2016, that the specified amounts will be appropriated each year, and that outlays will follow historical spending patterns for comparable research programs run by the Department of Energy.

**PAY-AS-YOU-GO CONSIDERATIONS:** None.

## **INCREASE IN LONG-TERM DEFICIT AND DIRECT SPENDING**

CBO estimates that enacting H.R. 5638 would not increase net direct spending or on-budget deficits in any of the four consecutive 10-year periods beginning in 2027.

## **INTERGOVERNMENTAL AND PRIVATE-SECTOR IMPACT**

H.R. 5638 contains no intergovernmental or private-sector mandates as defined in UMRA and would impose no costs on state, local, or tribal governments.

## **ESTIMATE PREPARED BY:**

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