



## BCSE FY 2020 Energy and Water Appropriations Requests

	Energy Program	FY2019 Appropriations	FY2020 Budget Request	BCSE Supported Level for FY2020 Appropriations
<b>Hydrogen and Fuel Cell Technologies</b>	<p>Fuel Cell Technologies Office (FTO) within the Office of Energy Efficiency and Renewable Energy (EERE)</p> <ul style="list-style-type: none"> <li>BCSE supports \$154 million for the Fuel Cell Technologies Office (FTO) within the Office of Energy Efficiency and Renewable Energy (EERE) for hydrogen infrastructure, market transformation/technology validation, and stationary applications.</li> </ul>	\$120 million		\$154 million
	<p>Advanced Energy Systems program within the Office of Fossil Energy (FE)</p> <ul style="list-style-type: none"> <li>BCSE supports \$50 million for the Solid Oxide Fuel Cell activities under the Advanced Energy Systems program within the Office of Fossil Energy (FE), which are vital to completing work on utility-scale fuel cell technologies.</li> </ul>	\$30 million		\$50 million
<b>Renewable Energy</b>	<p>Solar Energy</p> <ul style="list-style-type: none"> <li>Program funding levels should not be reduced from the current level of \$246.5 million for the solar energy program including concentrating solar, photovoltaic, balance of system cost reduction, systems integration and manufacturing competitiveness.</li> </ul>	\$246.5 million		\$246.5 million TBC
	<p>Wind Energy</p> <ul style="list-style-type: none"> <li>The Wind Program should be funded at no less than the current level of \$92 million, but could achieve additional technology advancements and benefits for consumers if funded at a more appropriate level of \$120 million, to support wildlife, radar, offshore wind, advanced component, transmission and grid integration R&amp;D.</li> </ul>	\$92 million		\$120 million
	<p>Water Power</p> <ul style="list-style-type: none"> <li>BCSE supports \$135 million for the Waterpower program, including research on conventional</li> </ul>	\$105 million		\$135 million

	hydropower, pumped storage, and marine and hydrokinetic technologies		
	<p><b>Geothermal</b></p> <ul style="list-style-type: none"> <li>BCSE supports at least level funding of \$84 million for the Geothermal Technologies Program (GTP) office. DOE GTP's support has helped the industry expand beyond high temperature resources by producing power from moderate-temperature geothermal resources, more than doubling the number of states with geothermal power production.</li> </ul>	\$84 million	\$90 million (includes \$30 million for the Frontier Observatory for Research in Geothermal Energy (FORGE))
	<p><b>Advanced Manufacturing Office</b></p> <ul style="list-style-type: none"> <li>BCSE supports at least level funding of \$320 million to enable the research, development, demonstration and deployment of industrial energy efficiency and advanced manufacturing technologies that will keep U.S. companies competitive in international markets and support jobs in local communities.</li> </ul>	\$320 million	\$320 million
	<p><b>Building Technologies Office</b></p> <ul style="list-style-type: none"> <li>BCSE supports at least level funding of \$268 million to develop innovative, cost-effective technologies, tools, and solutions that help U.S. homeowners, consumers, and businesses achieve peak energy efficiency performance in their buildings across all sectors of our economy.</li> </ul>	\$226 million	\$268 million
<b>Energy Efficiency</b>	<p><b>Energy Information Administration</b></p> <ul style="list-style-type: none"> <li>BCSE supports at least level funding of \$135 million for data collection, analysis and reporting activities on energy use and consumption. BCSE and BNEF use EIA data as inputs into the annual <a href="#">Sustainable Energy in America Factbook</a>.</li> </ul>	\$125 million	\$135 million
	<p><b>Federal Energy Management Program</b></p> <ul style="list-style-type: none"> <li>BCSE supports at least level funding of \$36 million to leverage private-sector capital in performance contracts; provide project and policy expertise to all federal agencies, help them meet Congressional and Executive energy management goals, such as reducing waste in federal agency energy use, spurring innovation and the commercialization of efficient technologies.</li> </ul>	\$30 million	\$36 million

	<p>Weatherization and Intergovernmental Activities<sup>1</sup></p> <ul style="list-style-type: none"> <li>BCSE supports at least level funding of \$257 million for the Weatherization Assistance Program and \$70 million for State Energy Programs to support energy efficiency and broader clean energy technologies and practices in partnership with state, local, and territorial governments. State energy offices have the primary responsibility for state energy emergency preparedness and response.</li> </ul>	<p>\$257 million (Weatherization Assistance Programs)</p> <p>\$55 million (State Energy Program)</p>	<p>\$270 million (Weatherization Assistance Programs)</p> <p>\$70 million (State Energy Program)</p>
	<p>Vehicle Technologies Program</p> <ul style="list-style-type: none"> <li>BCSE supports at least level funding of \$344 million to promote the development of advanced efficiency technologies for light- and heavy-duty vehicles and transportation system efficiency.</li> </ul>	\$344 million	\$344 million
<b>Natural Gas</b>	<p>Fossil Energy, Supercritical, Transformational Electric Power Initiative</p> <ul style="list-style-type: none"> <li>BCSE supports at least level funding of \$22.43 million to complete the necessary design and construction of the 10MW pilot facility, and conduct the necessary testing, including long-duration testing for the facility.</li> </ul>	\$22.43 million	\$22.43 million
	<p>Fossil Energy R&amp;D, Unconventional Fossil Energy Technologies</p> <ul style="list-style-type: none"> <li>BCSE Support at least level funding of \$46 million</li> </ul>	\$46 million	\$46 million
	<p>EERE, Building Technologies</p> <ul style="list-style-type: none"> <li>BCSE supports funding of \$20 million for R&amp;D for the direct use of natural gas</li> </ul>	\$20 million	\$20 million
	<p>Fossil Energy R&amp;D, Natural Gas Technologies, Natural Gas Infrastructure</p> <ul style="list-style-type: none"> <li>BCSE supports funding of \$50 million and that clarifying Report Language be added</li> </ul>	\$50 million	\$50 million
	<p>Emissions Mitigation from Midstream Infrastructure</p> <ul style="list-style-type: none"> <li>BCSE supports the funding level of \$10 million</li> </ul>	\$10 million	\$10 million

<sup>1</sup> Includes \$3,000,000 for training and technical assistance.

	<p>Emissions Quantification from Natural Gas Infrastructure</p> <ul style="list-style-type: none"> <li>BCSE supports the funding level of \$5 million for the Emissions Quantification from Natural Gas Infrastructure research subprogram and requests that the following language be added: <i>“to update and improve component-level emissions factors and on better characterizing the regional variability of methane emissions across the value chain.”</i></li> </ul>	\$5 million	\$5 million
<b>Energy Storage</b>	<p>Energy Storage</p> <ul style="list-style-type: none"> <li>BCSE supports the funding level of \$100 million for the storage account in the Office of Electricity</li> </ul>	\$46 million	\$100 million
<b>ARPA-E</b>	<p>ARPA-E</p> <ul style="list-style-type: none"> <li>BCSE supports strong funding for ARPA-E for research on renewable and energy storage technologies, among others</li> </ul>		
		\$366 million	\$400 million