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**House [Energy and Water Appropriations Bill](#) and [Report](#)**

The House Appropriations Committee approved a FY20 Energy and Water Appropriations on Tuesday, May 21. The bill includes \$46.4 billion overall for the Department of Energy (DOE), U.S. Army Corps of Engineers (USACE), and some programs within the Department of Interior, which is \$1.8 billion above the FY2019 enacted level. More specifically, the bill includes \$7.36 billion for the USACE, which is \$357 million above the current federal spending on the USACE and \$37.1 billion for DOE, an increase of \$1.4 billion from the FY2019 enacted level. The following is a brief breakdown of key accounts and provisions within the bill.

<b>Program (funding levels in millions of dollars)</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20 POTUS Request</b>	<b>FY20 House</b>
Electricity Delivery & Energy Reliability	248	156	182	200
Energy Efficiency & Renewable Energy	2,322	2,379	343	2,651.7
Weatherization Assistance Program	248	254	0	290
State Energy Program	55	55	0	70
Energy Information Administration	125	125	118	128
Advanced Manufacturing Office	305	320	80.5	360
Building Technologies Program	221	226	57	248
Environmental Management Program Upper Mississippi River	33.2	33.2	33.2	33.2
Mississippi River and Tributaries	425	368	209.9	350
Sault Ste Marie New Lock Construction (Soo Locks)	30	64.6	75.3	75.3
Harbor Maintenance Trust Fund	1,400	1,540	1,170	1,697

Other notable funding and provisions:

***Army Corps of Engineers***

*Asian Carp*

The Report states that the USACE needs to prioritize projects to prevent the spread of invasive species. The Committee has provided the USACE additional funding within the Investigations account for critical projects that include funding for preconstruction engineering and design. The USACE is directed to provide quarterly updates on the progress and status of efforts to prevent the further spread of Asian carp, including the Brandon Road Recommended Plan, the location and density of carp populations, the use of emergency procedures previously authorized by the Congress, and the development, consideration, and implementation of new technological and structural countermeasures.

The Report also reiterates disappointment that the Administration chose to cut USACE funding for the important inter-agency collaborative work to address Asian carp. The USACE shall continue to collaborate at levels commensurate with previous years with the U.S. Coast Guard, the U.S. Fish and Wildlife Service, the State of Illinois, and members of the Asian Carp Regional Coordinating Committee, including to identify navigation protocols that would be beneficial or effective in reducing the risk of vessels inadvertently carrying aquatic invasive species, including Asian carp, through the Brandon Road Lock and Dam in Joliet, Illinois. Any findings of such an evaluation shall be included in the quarterly briefings to the Committee. The USACE is further directed to implement navigation protocols shown to be effective at reducing the risk of entrainment without jeopardizing the safety of vessels and crews. The USACE and other federal and state agencies are conducting ongoing research on potential solutions.

*The Great Lakes and Mississippi River Interbasin Study (GLMRIS)*

The Report includes GLMRIS funding of \$50,000 for vertical team coordination, stakeholder coordination and engagement, budget development and defense, public outreach, Asian Carp Regional Coordinating Committee and Chicago Area Waterway System Advisory Committee related activities, and response to Congressional and media inquiries.

*Chicago Sanitary and Ship Canal Dispersal Barrier (Operations and Maintenance)*

The Report includes \$13.94 million for the operation and maintenance of the electric fish barrier at the Chicago Sanitary and Ship Canal for FY2019, level with the President's request.

*Investigations – Additional Funding*

The Report includes sufficient additional funding to undertake feasibility and PED work. The Administration is reminded that a project study is not complete until the PED phase is complete, and that no new start or new investment decision shall be required when moving from feasibility to PED. Therefore, funding potentially exists for the Brandon Road Selected Plan PED work, dependent on the USACE and its final FY20 Work Plan.

*Chesapeake Bay Oyster Recovery, Maryland and Virginia*

The Report supports the USACE work on the Chesapeake Bay Oyster Recovery program and urges the USACE to include funding in future budget submissions for these efforts.

*Chesapeake Bay Comprehensive Water Resources and Restoration Plan*

The Report supports the Chesapeake Bay Comprehensive Water Resources and Restoration Plan.

*New York and New Jersey Harbor Deepening Project*

The Report states that the Committee is encouraged by the work of the USACE and its local partners to bring the construction of the New York and New Jersey Harbor Deepening Project to completion. This project of national significance is an example of how the USACE and its partners can work together to enhance the national economy.

*Aquatic Plant Control Program*

The Report includes \$15 million for watercraft inspection stations and \$3 million for related monitoring out of the Aquatic Plant Control Program.

### *Midwest Flooding*

The Report includes language emphasizing that the spring 2019 flooding in the Midwest is a reminder of the importance of flood risk management efforts at the federal, state, and local levels. The USACE is reminded that actions taken to help communities recover as quickly as possible after such flood events are also important, including actions in accordance with section 1128 of the America's Water Infrastructure Act of 2018.

### *Toledo Harbor, Ohio*

The Report includes language stating that Toledo Harbor and the channel at the mouth of western Lake Erie serves as a major thoroughfare to the Great Lakes System, supporting manufacturing and commerce throughout the region. Additional funds have been provided in the Operation and Maintenance account, and the USACE is reminded that Toledo Harbor can compete for these funds.

### *Aquatic Nuisance Research Program*

The Report includes an additional \$4 million to supplement activities related to harmful algal blooms and directs the USACE to work collaboratively with appropriate university partners to address harmful algal blooms formation, detection, and remediation to enhance protection of vital U.S. water resources. The Committee is aware of the critical need to develop next generation ecological models to maintain inland and intracoastal waterways, which contribute over \$649 billion annually to the U.S. economy. The Committee has provided an additional \$5.68 million to develop next-generation ecological models. Within additional funds provided, the USACE is encouraged to support research that will identify and develop improved strategies for early detection, prevention, and management techniques and procedures to reduce the occurrence and impacts of harmful algal blooms in the nation's water resources.

### *Coastal Resilience Study*

The Report includes language that acknowledges that the USACE plays a critical role in managing flood risk and threats from coastal hazards. The Comptroller General is directed to provide to the Committee not later than one year after enactment of this Act a report with recommendations to Congress on how to increase the USACE's capacity to repair and maintain existing projects before they deteriorate to the point of failure.

### *Great Lakes Navigation System*

The Report includes a recommendation of funding for individual projects within this System that exceeds the funding level envisioned WRDA 1986.

### *Alternative Financing*

The report is supportive of public-private partnerships (P3) and is supportive of the USACE's efforts to implement the alternative financing mechanisms authorized in the Water Infrastructure Financing and Innovation Act (WIFIA). The USACE is directed to submit to the Committee not later than 45 days after enactment of this Act a report detailing the USACE's efforts on developing public-private partnerships, including any authorized pilots. The report also shall include an updated list of any demonstration projects being evaluated and a detailed description of the goals, advances in, and remaining challenges

for each project. The Report also includes funds are available to further develop this program. However, the USACE is reminded of the Committee's long-standing concerns that federal funding decisions not be biased by non-federal decisions to construct projects in advance of federal funding or to provide funding in excess of legally required cost shares.

## **Department of Energy**

### *Vehicle Technologies*

The Report includes \$163.2 million for Batteries and Electric Drive Technology; not less than \$38.1 million for electric drive research and development, of which \$7 million is to enable extreme fast charging and advanced battery analytics; and not less than \$35 million for Materials Technology, of which \$30 million is for early-stage research on multi-materials joining, propulsion materials, and carbon fiber-reinforced composites. Not less than \$12.5 million is provided for the Co-Optimization of Engine and Fuels Multi-Laboratory Consortium. The Committee provides \$20 million to continue the SuperTruck II program to further improve the efficiency of heavyduty class 8 long- and regional-haul vehicles.

### *Clean Cities*

The Report directs DOE to support the Clean Cities by continuing to promote competitive grants to support alternative fuel, infrastructure, and vehicle deployment activities. Within available funds, the recommendation provides \$42.3 million for deployment through the Clean Cities program. When issuing competitive grants in support of these activities, DOE is encouraged to focus on awards that range from \$500,000 to \$1 million each and include at least one Clean Cities coalition partner. The Committee encourages DOE to ensure balance in the award of funds to achieve varied aims in fostering broader adoption of clean vehicles and installation of supporting infrastructure. The Committee encourages continued outreach and deployment activities of renewable natural gas and natural gas powered vehicles. Within available funds, the Committee includes not more than \$10 million for medium- and heavy-duty on-road natural gas engine research and development, including energy efficiency improvements, emission after-treatment technologies, fuel system enhancements, and new engine development. The recommendation also includes, within available funds, \$10 million to continue to support improving the energy efficiency of commercial off-road vehicles, including not more than \$5 million for fluid power systems.

### *Advanced Manufacturing*

The Report provides not less than \$4.21 million for improvements in the steel industry; \$25 million for the Critical Materials Institute; \$20 million for the Energy-Water Desalination Hub; and \$20 million for the Manufacturing Demonstration Facility (MDF) and the Carbon Fiber Test Facility. Within available funds for the MDF, not more than \$5 million is for the development of additive systems and automation technologies that have the potential to deposit multiple materials allowing for hybrid material solutions. Within available funds, the recommendation provides not less than \$95 million for Advanced Manufacturing Research and Development.

The Report provides \$56 million for four Clean Energy Manufacturing Innovation (CEMI) Institutes, \$25 million for the Critical Materials Institute, and \$20 million for the Manufacturing Demonstration Facility (MDF) and the Carbon Fiber Test Facility. Within available funds for the MDF, up to \$5million is for the development of additive systems and automation technologies that have the potential to deposit multiple materials allowing for hybrid material solutions. In addition, the Committee supports the DOE's ongoing efforts to work on bio-based composites, bio-derived materials, and nano/microcellulose

research. The Committee supports the budget request for Research and Development Consortia to conduct early-stage research and development in high priority areas and also supports early-stage research in materials, process knowledge, and applications of modeling and simulation relevant to energy in manufacturing. The recommendation provides no funding for the Energy-Water Desalination Hub.

The Report provides \$28 million for the two Clean Energy Manufacturing Innovation Institutes. The Committee is concerned that recent efforts to establish a Clean Energy Manufacturing Innovation Institute focused on cybersecurity in the manufacturing industry will be duplicative of efforts already undertaken by Department of Defense manufacturing institutes. The Committee directs the Department to coordinate with the Department of Defense prior to the award of this institute to ensure it is not duplicative of previous or ongoing work carried out by the Department of Defense. The Department shall provide a briefing to the Committee outlining the unique mission and work intended for this institute once the award is made but prior to the beginning of operation of the institute.

The Report recognizes the great potential for energy savings in water and wastewater treatment systems, which are among the country's largest industrial electricity users. The Committee appreciates the Department's work on technical assistance in this area and provides \$5,000,000 to expand the technical assistance provided for water and wastewater treatment. In addition, the Committee provides \$20 million for research and development on technologies to achieve energy efficiency of water and wastewater treatment plants, including the deployment of alternative energy sources, as appropriate.