



**External Affairs & Communications**  
**Anthony Pitagno**  
Director

November 6, 2019

The Honorable Lisa Murkowski  
Chair  
Senate Committee on Energy &  
Natural Resources  
304 Dirksen Senate Building  
Washington, D.C. 20510

The Honorable Joseph Manchin  
Ranking Member  
Senate Committee on Energy &  
Natural Resources  
304 Dirksen Senate Building  
Washington, D.C. 20510

Dear Chairwoman Murkowski and Senator Manchin:

On behalf of the American Chemical Society (ACS), I am writing to endorse S. 2714, the ARPA-E Reauthorization Act of 2019, S. 2660, the Wind Energy Research and Development Act of 2019, and S. 2668, the Solar Energy Research and Development Act of 2019. ACS represents over 150,000 chemists and chemical engineers and was chartered by Congress in 1937 to provide policymakers with advice on issues of importance to the nation and scientific community.

Energy production and use have significant implications for our environment, economy, and national security and is a critical and complex policy issue. Federal, state, and local governmental actions help shape U.S. energy production, distribution, and consumption. The ACS acknowledges that currently, no single energy technology is simultaneously reliable, affordable, clean, and secure for all people in the United States. Addressing our long-term energy needs in a sustainable, climate-friendly manner will require a host of new technological innovations; ACS believes S. 2714, S. 2660, and S. 2668 are essential to meeting these needs.

ACS also believes it is vital to take into account the full lifetime costs for new technologies and ensure that research to mitigate waste from manufacturing and disposal accompanies new technology deployment. In order to reduce the life cycle costs of new energy technologies, we strongly endorse the provisions of S. 2668 calling for the incorporation of sustainable chemistry principles as research and development of solar energy technology continues.

The Advanced Research Projects Agency-Energy (ARPA-E) is a critical component of our energy research and development infrastructure. By pursuing high risk, high reward technologies, ARPA-E will ensure cutting-edge innovations reach the marketplace. S. 2714 robustly supports ARPA-E to guarantee its long-term viability and success.

Please accept my thanks for your hard work on behalf of ARPA-E, wind, and solar energy research. I look forward to working with you to pass this important legislation. Should you have any questions, please do not hesitate to contact me, or Carl Maxwell ([c\\_maxwell@acs.org](mailto:c_maxwell@acs.org)).

Sincerely,

*Anthony Pitagno*

Anthony Pitagno

CC:

The Honorable Tina Smith

The Honorable Kyrsten Sinema

The Honorable Christopher Van Hollen