June 9, 2021

The Honorable Frank Pallone
Chairman
House Committee on Energy & Commerce
2125 Rayburn House Office Building
Washington, DC 20515

The Honorable Joe Manchin
Chairman
Senate Committee on Energy & Natural Resources
304 Dirksen Senate Building
Washington, DC 20510

The Honorable Cathy McMorris Rodgers
Ranking Member
House Committee on Energy & Commerce
2322 Rayburn House Office Building
Washington, DC 20515

The Honorable John Barrasso
Ranking Member
Senate Committee on Energy & Natural Resources
304 Dirksen Senate Building
Washington, DC 20510

Re: Investments in Efficient Indoor and Outdoor Lighting

Dear Chairmen Pallone and Manchin and Ranking Members McMorris Rodgers and Barrasso:

As your committees identify substantive opportunities to achieve deep carbon reductions, the below signed coalition of lighting efficiency advocates urge you to incentivize the utilization of light-emitting diode (LED) luminaires and networks for outdoor and indoor lighting infrastructure. Although the energy efficiency benefits of LEDs are well known, much of today's outdoor street and highway lighting – in addition to lighting in commercial and residential buildings – remain powered by outdated and less efficient devices. Only 30% of lighting in the U.S. consists of LED technology.

Through greater use of LED lighting systems and controls, there exists substantive opportunities for carbon reductions, and enormous opportunities for energy savings. According to the Energy Information Administration, lighting represents 6% of total U.S. electricity consumption, and based on data from the Department of Energy, LEDs could save approximately 348 TWh of electricity through wide use and adoption by 2027. This is the energy equivalent of 44 electric power plants, at 1,000 megawatts each. Moreover, indoor LED adoption can further reduce building electrical load by reducing HVAC demand, as LEDs produce less waste heat compared to incumbent technologies.

As Congress considers resources to support our nation's infrastructure, we request that you consider provisions that support LED adoption and smart lighting systems, including:

- Incentives for replacement of older outdoor and indoor less efficient lighting systems with efficient alternatives;
- Support for consumer rebate programs, and funding to utilities to provide LED lamps and luminaires at low or no-cost for the low-income renter and owner-occupied housing segments, which supports the Administration's agenda for advancing equal opportunity;

- Incentives or grants to utilities and states to encourage use of LED street and area lighting and controls;
- Connecting relevant state block grants to utilization of LED street and area lighting and controls in Clean Energy Standard requirements;
- Incentives for rural electric utilities to install LED street and area lighting, with consideration of a rebate of $100 per unit of LED when replacing an existing high-pressure sodium or mercury vapor unit; and
- Incentives for public buildings to install UV germicidal lighting technologies in interior spaces – which inactivates viruses and bacteria and reduces the number of air changes in a room, thereby mitigating HVAC demand.

We greatly appreciate your leadership in establishing needed energy efficiency standards as connected to a clean energy future. Incentivizing wider adoption and deployment of energy efficient LED technologies will greatly assist in meeting the nation's carbon reduction goals, improve safety and security, support grid resiliency – while also lowering consumer and taxpayer energy costs.

Thank you for your consideration of this request, and we look forward to working with you in achieving a clean energy future. We will send additional communication in the future to address building lighting in more detail. If you have any questions or need additional information, please contact Vincent Barnes (vbarnes@ase.org).

Sincerely,

Alliance to Save Energy
Acuity Brands, Inc.
Evluma
Illuminating Engineering Society
Lutron
Signify North America
Trane Technologies