

# United States Senate

July 7, 2023

The Honorable Dr. Kimberly Spangler  
Environmental Security Technology Certification Program (ESTCP) Director  
Department of Defense  
4800 Mark Center Drive, Suite 16F16  
Alexandria, VA 22350

Dear Director Spangler:

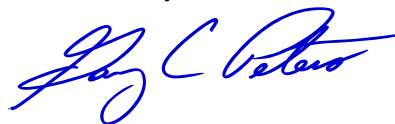
I am writing to express my support of RG Resource Technologies' pre-proposal entitled Increasing Resiliency on DoD Installations by installing PVT (Photovoltaic + Solar Thermal) Cogeneration Micro-Utility Substations to the U.S. Department of Defense's (DoD) Environmental Security Technology Certification Program (ESTCP).

The traditional utility model of centralized production and distribution poses a severe risk to national security from a variety of threats including cyber-attacks, severe weather, and physical damage inflicted by bad actors both foreign and domestic. These threats reduce the overall resiliency of the system. While onsite renewables have been utilized to try and add resiliency to the system, the installation and storage cost coupled with the complexity of retrofitting integration with existing building mechanical and electrical infrastructure has limited its adoption and deployment.

To increase resiliency, RG Resource Technologies' plans to install, monitor and meter an innovative onsite PVT (Photovoltaic + Solar Thermal) cogeneration Micro-Utility Substation that produces and stores both thermal and electrical energy. This system is carbon pollution free and increases resiliency through higher production efficiencies and local energy storage. A PVT solar collector combines the generating potential of electricity and thermal energy by circulating a heat transfer fluid in a single module. The combination of these two solar generating technologies into a single footprint doubles greenhouse gas avoidance. The Power Panel PVT1 module is designed to maximize both electrical and thermal output in a single module due to its unique patented construction and is four times as powerful as traditional solar technologies, capturing 80% of the sun's energy,

Based in Oxford, Michigan, RG Resource Technologies' hybrid solar-thermal technology can scale easily and deploy quickly to meet DoD energy production needs, and I am confident that their application to the ESTCP will receive appropriate consideration. If I may be of any additional service, please contact me, or my Federal Grants Director Elise Lancaster at (313) 505-5615. Thank you in advance for your attention to this matter.

Sincerely,



Gary C. Peters  
United States Senator