Technical Assistance Request

Technical assistance requests are as follows:

1. Assistance is requested to determine the bifacial boost response when utilizing the LUMENext floating array boost technology with a bifacial solar panel compared to an identical bifacial solar panel without the LUMENext technology in low albedo situation such as floating on water and over dark pavement. This research and assistance is requested from Sandia National Labs with their experience in bifacial solar research, from National Renewable Energy Labs, and from CFV labs, who have all jointly coordinated on research into bifacial solar performance and modeling..

2. Assistance is requested in optimizing the concave shape and LUMENext assembly to create maximum light redirection to the underside of the bifacial floating assembly. This could tap into expertise at National Labs that have worked on concentrating troughs and heliostats, such as NREL and Sandia.

3. Assistance is requested to 3D print prototypes of the floating solar bodies with the concave surfaces and panel mounts. Power connector Greentown Labs has availability of 3D printing machines.

4. Assistance is requested to complete a failure modes and effects analysis to establish all failure modes and effects of the design on a wide variety of potential solar installations

5. Other technical assistance as the design iterates and matures as needed.