

Technical Assistance Request

The Prometheus Innovations, LLC team proposes a solar improvement which employs a reflective polymer material created using a confidential additive as a dedicated backplane reflector for bifacial solar panels. There are two primary areas in which technical assistance for further development are required: polymer robustness and suitability, additive reflectance and solar cell efficiency measurements. Listed below is a detailed breakdown of the proposed aspects of this project which will require the assistance of an entity with laboratory equipment.

- 1) Polymer Analysis
 - a) Durability
 - b) Ease of manipulation/construction
 - c) Cost
 - d) Fouling & self-cleaning analysis
- 2) Additive Reflectance & Bifacial Efficiency
 - a) Study of 5+ variables affecting additive reflectivity
 - b) Effects of reflectivity improvement on bifacial panel efficiency

Specifically national labs which are specialized in polymer and/or optical measurement and experimentation are ideal partners for the further development of this technology. Quantitative measurements of the above aspects will be necessary to properly demonstrate the efficacy of the proposed technology and facilitate rapid market implementation.

