

# American-Made Solar Prize Round 7 Ready! Contest Submission

## Thee Solar Roofing

254 Evans Avenue,  
Mt Sterling, Kentucky 40353



## Technical Assistance Request

We are attempting to manufacture a unique solar panel in the USA. One of our major costs is glass.

We recently purchased 1,400 sheets of Low Iron, Prismatic, Tempered glass that was 14.24" x 27" x 4mm thick for \$1,800 cost at the factory (\$1.90 per sheet). However, shipping, duty, and other taxes were an additional \$2,900 (\$2.62/sheet). Glass is our largest expense. If hostilities ever occurred with China, it would end all supplies from that country.

Therefore, we must find (we need assistance in finding) a supplier of glass from a non-BRICS country. But shouldn't America have it's own glass plant for the solar panel manufacturing industry? We must find (we need assistance in finding) investors should are willing to open a glass plant locally.

BTW: The largest Gorilla Glass plant in USA is located in nearby Harrodsburg, Kentucky.

We Request Technical Assistance from our national labs:

We need a Technical Viability Analysis conducted on our Solar Panel that will show:

1. How well can **Thee Solar Panels** be scaled?
2. Demonstrate the ease of Installation of **Thee Solar Panels** on an Unoccupied Test Home.
3. Determine how novel is the idea.
4. The Multiple Benefits of our product –
  - a. Can solar panel last >100 years as roofing material?
  - b. How long will **Thee Solar Panels** function as roofing materials and/or produce electricity?
  - c. How do we achieve long-term waterproofing?