

# TerraCorp Technical Assistance Request

I would greatly appreciate more help from the American-Made Network. The most important resources I need to realize my idea for the American-Made challenge are the following: a designated workplace away from home, a welder or a welding machine with all necessary accessories, access to a testing facility, and an electrician or electrical engineer.

A workspace is one of the most important resources I need but do not have. My mother's poorly-lit, unfinished basement is not the best location for me to work on my project. Instead, I would love to work in a dedicated workplace that comes with all tools I could possibly need (hand tools, power tools, machines, etc.). These tools will make it easier for me to build my panels faster than usual and help me make a cleaner, more presentable product. I love being able to work on this project early in the morning and late at night, so it is important to me that the facility I would be working in allows for 24 hour access or something close to that.

I am also in need of a designated welder to help me build the frame structure of the panel. I would love to learn, but with the time that I have to build at least four panels, I am not sure I could learn and perfect my skills in enough time to build a frame I am confident in. Also, I want my panels to be of the best possible quality. With that in mind, I think the best option for me would be to get a professional to do it instead of me trying to figure it out and wasting materials. However, I do know of someone who is familiar with welding. Unfortunately, when he moved, he was unable to bring his welding equipment and cannot afford equipment at this time. Therefore, if a designated welder cannot be provided by the American-Made Network, I would really appreciate being given a welding machine and all of the accessories I would need to weld an aluminum frame together. I trust my comrade to get the job done, but I would still prefer a professional.

Furthermore, I would really like to have access to a weather testing facility, where I can put the Piezo-Solar panel through a series of tests mimicking the extreme weather conditions that occur in the United States. My present plan is to travel to different regions in the United States, remain there for two weeks, and gather data from the Piezo-Solar panel and the control solar panel, which will help me determine the output increase in different areas of the. However, it is very important that I am able to test the durability and limits of the Piezo-Solar panel in extreme weather, especially with the global climate crisis. Instead of racing to find storms and other extreme weather conditions, it would be much safer and more cost-effective to visit a weather-testing facility where I can put the panels through tests in a controlled environment. I am unsure of the level of outreach the American-Made community has, but if possible, I would be very appreciative if the network could get me access to one of these facilities.

Lastly, I am in desperate need of an electrician or electrical engineer to help me properly connect the two systems. I am not an electrical professional, and the last thing I want is to start an electrical fire with my panel. While building my panels, the most complicated thing for me has been properly wiring the panel, and I would feel a lot better having a professional take control over that part. However, it is still very important to me that I learn how to wire the Piezo-Solar panel, so I would really appreciate it if that professional did not mind taking the time to walk me through the wiring process. In learning all of the steps it takes to complete the panel, I will feel a

lot more confident as the sole inventor and owner of intellectual property. The electrical component of the panel is the most important part of the panel, so it is very important that I learn about it.

I would like to thank the American Made Network for even considering giving myself and fellow competitors the opportunity to ask for additional help. I have never had the option to reach out for technical help, so I am very excited and extremely grateful to the network for being willing to even provide more resources to us. I hope that the network is able to help me, and I cannot wait to see everyone in the "Set!" round!