

TECHNICAL ASSISTANCE REQUEST

1. **Unique challenge and need** - Seven commercialized prototypes

Proposed assisting entity – American-Made Network members that can assist with building a commercial-grade solar panel prototype. This includes materials sourcing, fabrication, 3D metal & plastic printing, glass cutting, solar cell integration, wiring, electrical connectors, framing and mounting. The seven model types need to be built for: Ground-mount space savings arrays, residential rooftop, commercial rooftop, portable expandable kit, retrofit booster kit, window cover mount, and farming arrays (livestock & crops). All seven models involves all the same parts and materials but would need to be fabricated to a specific design.

2. **Unique challenge and need** – Performance testing of multiple prototypes

Proposed assisting entity – American-Made Network members that can perform independent field test in normal, extreme heat and snow environments. Testing would include data capture using Enphase Enlighten monitoring software. Entity can be an individual, University, independent lab or solar company. Location must be provided by entity for convenient access for their staff, my team and potential investors to observe, record, capture data and complete testing process. Testing sites would also include a building structure (existing or simulated) to install a window-covered solar frame for testing.

3. **Unique challenge and need** – Help solve some detailed technical items

Proposed assisting entity - American-Made Network members have the experience, creativity and technical skills to solve a few technical issues involving development of a slightly different type of solar panel. Technical items include electrical connection, PV wiring and mechanical design. This process will be during prototype build and after finished product to identify weaknesses in the product.

4. **Unique challenge and need** – Certification prior to commercialization.

Proposed assisting entity - American-Made Network members that offers certification services for PV products. Certifications include UL 1703, 2703 and any other applicable certification requirement. Entity should have the necessary licenses to award legal certifications, compliant with UL requirements.

5. **Unique challenge and need** – Technical documentation publishing

Proposed assisting entity – American-Made Network members with experience with writing, designing and publishing technical data sheets. Spec sheets, consistent with current industry spec sheets for PV, would need to be published for my new solar panel to be delivered to prospective clients. spec sheets would include physical dimensions, electrical data, basic installation instructions, photos, features/benefits, etc. The documentation should look professional and be ready for sales staff to use for marketing.

6. **Unique challenge and need** – Specialized PR and marketing assistance

Proposed assisting entity – American-Made Network members with history of branding, advertising and promoting solar panels. Since our solar panel is new and looks different than any other panel, assistance will be needed to “sell”, “educate” and “persuade” prospective buyers to try a different type of solar panel that is superior, in every way, to today's common panel. This entity should be familiar with “path dependency”, “complacency, and other psychological dynamics of consumers. The entity should offer solutions on how to get our panel into the mainstream conscience of PV buyers worldwide. The solutions should then be conveyed onto print, digital and video content.

6. **Unique challenge and need** – Industry Networking

Proposed assisting entity – American-Made Network members with connections to various organizations connected to PV, green energy and innovation industries. Introducing a new solar panel will require informing industry participants of a new alternative to traditional PV modules. Groups include associations, military, governments, renewable advocates, etc.