

## Technical Assistance Request:

The technical development of the Solar Powered EV charging station and street lamp will require technical assistance and support from outside sources. Assistance can be broken into two primary categories:

1. Electrical engineering: Assistance with the electrical engineering to integrate all 3 systems into a single unit: development of an energy management system, and control unit to operate the vehicle charger, and manage solar panel energy input. As well as distribute electrical output to multiple charging connections.

2. Electrical Grid Engineering: assistance to determine how robust an existing electrical system needs to be to be reused to accept solar panel electrical input and how to determine when a system requires new electrical lines to be trenched, and new infrastructure, and electrical connections need to be created to install the solar powered street lamps and EV charging systems.

3. Expertise in civil engineering as it relates to incorporating solar panels and vehicle charging stations to government managed electrical grids: what would be required to allow our product to connect to municipal infrastructure?

In each case, electrical engineers, software engineers, and photovoltaic experts will need to be consulted to determine the best path forward.

4. Business Plan: Assistance in the formation of a business plan, connections to government facilities or businesses who may be willing to partner with us to test our prototype, and continuing to help us refine our approach on the path to a prototype as we discover new information through the proof of concept, testing and development phases.

5. Legal: A number of legal considerations, liability, copyright, patent law and otherwise need to be considered in bringing a product to market. Assistance in determining these considerations is needed to progress to the Go! Phase of the competition.

