

Name of Principle Investigator: Mark Bremer

Project Title: Integration of Virtual and Real Equipment Learning Tools Related to Sustainability Education

1. Please consider the original timeline and deliverable targets. How is your project progressing compared with the original estimates?

Three of the seven objectives are near completion. Two more objectives are in progress. The final two objectives depend on the completion of the first five, so they will likely be completed near the end of the project. The project is on target with its estimated timeline.

2. How is spending progressing when compared with the original budget estimates?

Spending is under budget so far. One major piece of equipment (particular wind turbine) is no longer available, so a less-expensive, slightly smaller substitute was purchased instead. Several other pieces of equipment still need to be selected and purchased. Personnel expenses are on target.

3. Please provide feedback regarding your experience with the project execution. In particular, any issues or roadblocks you've encountered that may have been unexpected.

Having a round one IITG award recipient on my team has made parts of project execution much easier. We have had many technical issues with video conferencing so we have reverted to teleconferencing, which is working well.

4. What are your positive observations or pleasant surprises about your team's interaction or project process that might would be helpful to other PI's?

I am happy the way team members have developed particular aspects of the technical part of the project after learning about my overall vision for the project. I am happy about the core members of my team's dedication to their tasks and role in the project. One pleasant surprise is that a much larger grant was also won based on some ideas developed in this project.

5. Please describe any challenges you've encountered working with your project team that you've found solutions for that might be helpful to other PI's.

We have set up team monthly conference calls to talk through progress and discuss next steps. A google doc with all the project communications, agenda, meeting minutes, and notes was set up so everyone on the project can view, comment, and edit.