

Official Document Submittal Instructions

Compliance Video

2021 ASME SDC

Harvesting the Sun and Wind Competition

ASME E-Fests information can be found at: efests.asme.org

The team captain from each team must submit a Compliance Video using the link provided in the email sent by ASME to all registered participants. Please only send one video per team. The video is due by midnight (US EDT) March 26, 2021. **Please keep your video to less than 15 minutes.**

You must record each of the 7 steps below in the order listed.

- 1) Start the video with a recording of a sign with your school and device name (if your school is entering more than one device in the competition).
- 2) Record the Playing Field and show that the overall field measures 5m x 5m, and that all Charging, Loading and Unloading Areas are 1m x 1m. Record the center of the Playing Field to show the permanent location of the 13 arrows and make sure they are easily visible on your video.
- 3) Record all weights that you plan to use during your demonstrations. Show that they are all within the acceptable 8cm x 8cm x 1cm dimension tolerances and ½ kg mass tolerance. Use the scale you plan to use during the demonstrations to verify all masses. Make sure your video clearly shows the scale reading. Your team captain (or a team representative) should make a recorded statement that the scale being used has been calibrated.
- 4) Record the Solar source, Wind source and initial power source you will be using. If you are not using the same light/fan/AmazonBasics AAA batteries that is specified in the competition rules show that your substitutions are legal per the competition Q&A. Your team captain (or a team representative) should make a recorded statement that the AAA battery has not been altered and is the only initial source of power in your device.
- 5) Record your device completely within your rigid sizing box. Then remove your device and verify the 50cm x 50cm x 50cm box dimensions. Briefly explain how your device will operate. Identify the battery location and control and charging systems.
- 6) Place your device inside the Charging Zone and operate either your Solar source or Wind source in the same configuration you intend for your demonstrations. Record proof that your device is capturing this energy by showing the production of current or power from the collection system on your device. You only have to show one type of power being collected, even if you are using both types. Your team captain (or a team representative) should make a recorded statement of which source(s) of power you intend to capture during the demonstrations.
- 7) Record the sign again with your school and device name (same as step 1) and have the team captain (or a team representative) making an honor pledge that your entire team will follow all competition rules and clarifications.