Power Grid Hardware Setup

Set 1 open the Power Grid case and remove:

- **All models**. Handle the models with care. They are instrumented systems. Take special care with the Wind Turbine Model and the Solar Panel Model as these are both instrumented and actuated.
- USB C or USB mini cables. There are 5 of these cables bundled together.
- **Cable labeled "PC"**. This is for connecting to the Windows laptop serial port.
- **AC power adapter** (used if plugging the Power Grid case into an AC outlet)
- Cable labeled "BAT". (used if plugging the power grid case into a 5VDC battery)

Step 2 Connect the data cable to the labtop:

- Close and latch the Power Grid case lid.
- Connect the USB B cable or USB C cable to the Power Grid 's USB B or C jack, and the end of the cable to the laptop's USB A port.

Step 3 Connect power to the case:

- **If using the AC adapter to power the Power Grid**, plug the adapter into a 120V AC outlet, and then plug the barrel jack connector into the power port on the side of the Power Grid case.
- If using a battery to power the Power Grid, plug the cable labeled "BAT" into the battery's USB connector and the barrel jack into the Power Grid case.

Step 4 Connect the USB cables to the models:

- Connect the short USB C or USB mini cables to each model. It's easier to plug the cable into the model while holding the model.
- Once each cable is connected, **place the models on the Power Grid case top** in the following configuration:



Set 5 Plug the models into the case:

Plug each model into the closest USB C port on the edge of the case or plug each model into the ports on the back of the case. For some kits, there are only 4 USB A ports, Use the USB splitter to attach two of the models to one port. It is best to attach the wind turbine and the fan to the USB splitter cable and place them toward the front of the case nearest to the carrying handle.

Step 6:

- Use Windows Device Manager to verify the presence of each model. In the Device Manager, select View, and select show hidden devices. Search for the highlighted models under "Ports". Remove any extra or redundant non-highlighted devices by right clicking on them and choosing "Uninstall Device".
- If any models have not appeared as devices, unplug that device and replug it.