

Manual panel allocation

Manually allocating panels is slightly different depending on whether the panels are optimised or not. All panels connected to an input must be within a certain pitch and orientation threshold and panels incompatible with the selected string will be un-selectable. In this case the panels may need to be optimised.

Without optimisers

1. Select inverter input and the roof you'd like to allocate from the lists on the left.
2. Click or drag over panels to allocate them to an inverter input.
3. Go to the next inverter input and repeat.
4. Once all inverter inputs have the correct number of panels, all inputs will be in green and a tick will show at the top. Below all your inverters and roofs, you can then click *next* to continue with the [performance task](#).

With optimised systems

You can add optimisers in the inverter task by clicking *Add optimisers +* to the top right of the inverter string. This will automatically add optimisers to all panels on that inverter, if you would like to remove some, this will have to be done manually in the [financial task](#).

When you come to allocating the panels the steps are largely similar to non-optimised systems:


1. Select inverter input and the roof you'd like to allocate from the lists on the left.
2. Use the *Add group +* option to sub-divide the input into shading groups and then select the roof you want to allocate panels to. **You should group panels that will get similar levels of shade and Easy PV will require that you use shading groups for panels that are on different facing roofs but on the same string.**
3. Click or drag over panels to allocate them to an inverter input or shading group.
4. Go to the next inverter input or shading group and repeat.
5. Once all inverter inputs have the correct number of panels, all inputs will be in green and a tick will show at the top. Below all your inverters and roofs, you can then click *next* to continue with the [performance task](#).

Adding optimisers in the inverter task will not automatically change the generation.

The generation is a product of the kWp of the inverter, the kk value (which is based on the pitch, orientation and location of the panels) and the shading factor. Putting panels in separate **shading groups** in Easy PV allows Easy PV to factor in differences in the kk value and shading factor for the panels in each group on a single string. Without shading groups the generation will not change because the kk value and shading factor will be the same on the whole string, as it would be without optimisers.

Other options



- Use the  icon to reset the allocation on the inverter or individual inverter inputs.
- Below where it says *Next*, you also have the option to use auto-stringing. This will not work for systems that require shading groups.

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