Manual panel allocation

Panels can be manually allocated in the Performance task. Whether a project requires manual allocation depends on it's complexity, it's size and whether the system is optimised. After a system has been automatically allocated, you may also wish to make edits to the string arrangement.

Manual panel allocation

To open up the manual panel allocation, follow these steps:

1. Open the Performance task
2. Click **Edit inputs** in the top right
3. Select the **Panel allocation** tab
4. Then click **Edit allocation** or **Allocate panels** in the bottom left

The steps to manually allocate panels panels is slightly different depending on whether the panels are optimised or not. All panels connected to a MPPT must be within a certain **pitch and orientation threshold** and panels incompatible with the selected string will not be selectable. In this case the panels may need to be **optimised** or the **stringing arrangement** in the Inverter task adjusted.

Non-optimised systems

1. Select inverter MPPT and the roof you'd like to allocate from the list on the left
2. Click or drag over panels to allocate them to an inverter MPPT
3. Repeat steps 1-2 on the next inverter MPPT or roof until all panels are allocated. All MPPTs will be in green and a tick will show at the top of the page
4. Below all your inverters and roofs, you can then click **Next** to continue with the Performance task

Optimised systems

Were optimisers are required (panels are on the same string but different pitch or orientation) Easy PV will not let you allocate them on the same string. You must instead sub-divide the string into shading groups. These steps are outlined below:

1. Select inverter MPPT and the roof you'd like to allocate from the list on the left
2. Click or drag over panels to allocate them to an inverter MPPT

3. If you are allocating panels to the same MPPT on a different roof click **Add group +** to sub-divide the input into shading groups and then select the roof and allocate the panels
4. Repeat step 3 on the next inverter MPPT, shading group or roof until all panels are allocated. All MPPTs will be in green and a tick will show at the top of the page
5. Below all your inverters and roofs, you can then click **Next** to continue with the Performance task

> **Tip**: If you are including optimisers to mitigate the impact of shading, you do not need to put each individual panel into a shading group. To best model the output of the system, group panels that will get *similar levels of shade.*

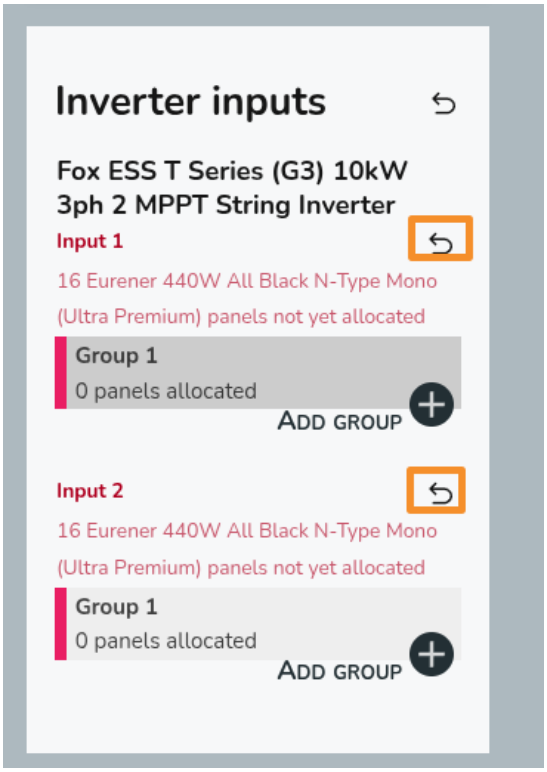
FAQ: Why has the generation not changed after adding optimisers?

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 itself is based on the pitch, orientation and location of the panels) and the shading factor.

If panels remain grouped the same, their shading factors and kk value will not change. With optimisers, you can put panels in separate **shading groups**. This 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 optimsers.

Other options

- Use the ⮌ icon to reset the allocation on the inverter or individual inverter MPPTs
- Below where it says **Next**, you also have the option to click **Auto-string**. This will not be available for all systems.



Still Need Help?

- **Related FAQs:** Check out our Performance task FAQs for answers to common questions
- **More guides**: Take a look at Performance task guide, Performance preferences and the Inverter task guide
- **Live training:** Book onto a live demo session to see this feature in action

Contact Support: If you've got further questions, get in touch with our support team at **help@easy-pv.co.uk** (UK) or **help@easy-pv.ie** (IE). *If you are experiencing a bug, to help us look into your issue faster, please include the email address of your account, the name of the project and screenshots of any unexpected behaviour.*

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