Subject S03: Solar Design

Hand-out - Select inverter or panels first?

System design considerations

Panel notes:

- Polycrystaline Slightly lower price per Watt, a little better in shade.
- Monocrystaline Higher efficiency in full sun and less derating overtime.

Design notes:

- System design is an iterative process. Design the system, check the constraints such as inverter maximum and minimum voltage windows, if it doesn't work change a part and check the constraints again.
- Some designers prefer to select the inverter first where others prefer to select the panels first. This could be due to meeting customer specifications, personal preference or the complexity of some jobs such as roof size, angles and shaded areas.
- Cheap panels and an expensive inverter may be a more reliable system than expensive panels and a cheap inverter.



