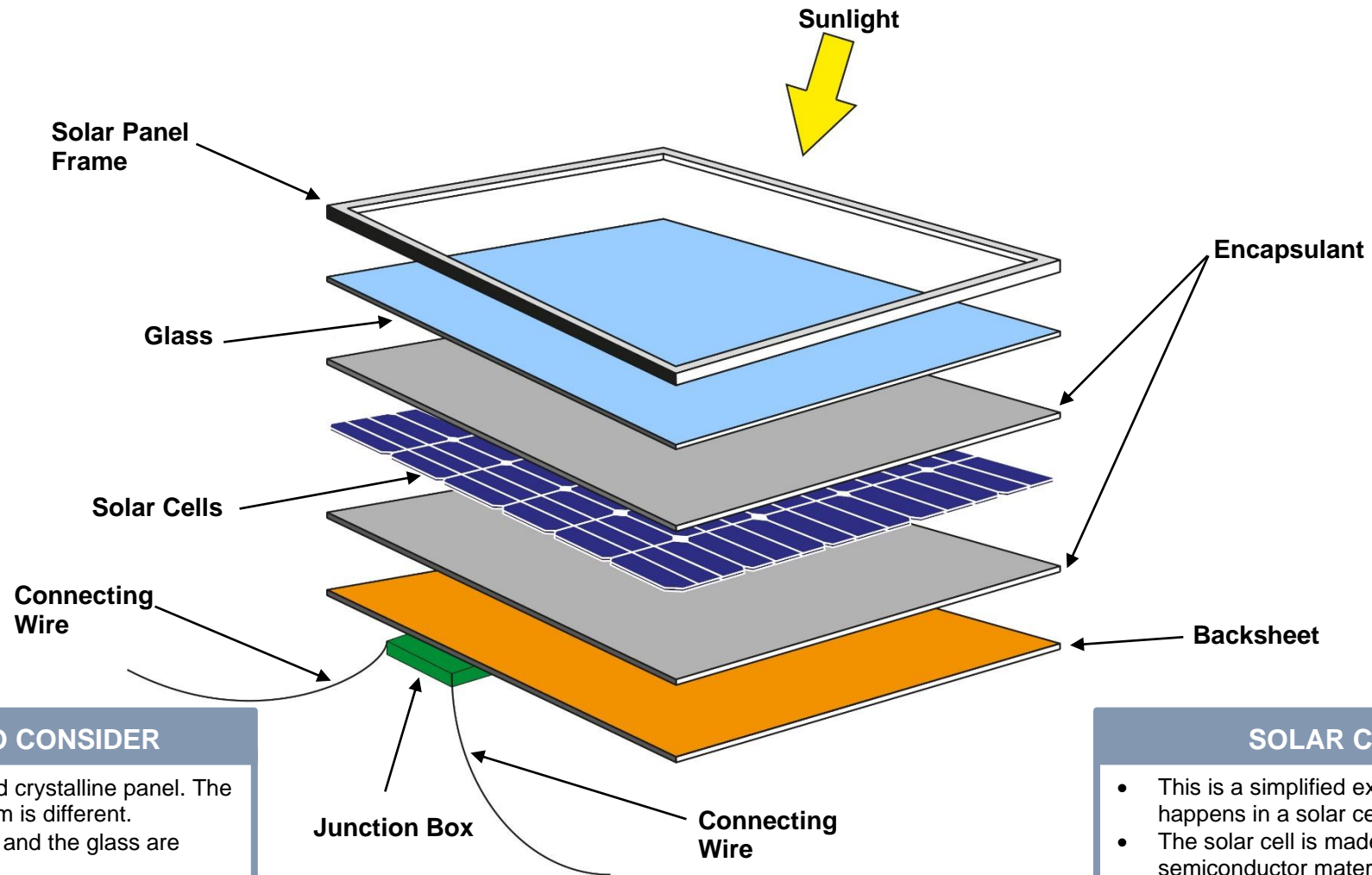


RENEWABLES INSURANCE WEEKLY MINI-SERIES EPISODE 4: SOLAR PANEL EXPLODED DIAGRAM



POINTS TO CONSIDER

- This is a standard crystalline panel. The design for thin film is different.
- The encapsulant and the glass are translucent.
- The glass is tempered to withstand minor pitting loads.
- Solar panels produce DC power which is later converted into AC via an inverter.

SOLAR CELL:

- This is a simplified explanation of what happens in a solar cell.
- The solar cell is made from a semiconductor material forming a large matrix.
- When the matrix has photons from the sun exposed to it electrons in the semiconductor get excited.
- These electrons move towards the metal contacts generating a DC current.