



**Prize Winner**

**Multimedia**

**Year 11-12**

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**Kangaroo Island Community  
Education**



# How Will Quantum Dots in Solar Photovoltaics Revolutionize the Solar Industry?

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## Video clip

<https://youtu.be/uXcehOQokOg>

## Production Software Used

- Lumafusion
- Videoleap by Lightricks
- Procreate
- Google Chrome
- Microsoft Word
- Google Docs
- Google Drive

## Overcoming Problems

This task presented a collection of obstacles which had to be overcome in order to create the best product possible. While working as a pair brings unique skill sets and decreased creation timeline, it did add some complications. Sharing the workload between two people fairly was definitely necessary to maintain positive mindsets, but presented a challenge as we were doing very different tasks. By communicating effectively, we were able to reach a vision for the product that we both agreed upon, and felt was doable together. Different editing software was used, rendering it troublesome to collaborate on the same project. This was solved in the end by simply exporting the project on one person's device before sending it through google drive to the others.

Frequent issues occurred during the animation and editing process of the project. Occasionally accidental merging in layers would occur, proving to be more difficult when certain drawings were to be animated. This resulted in certain parts being redrawn and reanimated which lengthened the timeline of the overall production. This was fixed by using a new technique that was developed when animating, where layers would be separated and sorted into different projects and merged only when it was fully completed. This technique, or rather method prevented a lot of the animation from being redrawn and polished. Another frequent problem would be the development of art style that can be evidently seen in the video. This was an issue which couldn't have been corrected without redoing the animation - consuming time which wasn't available.

When recording the voiceover, some words and phrases were found to be very difficult in pronunciation. This lengthened the time taken to record, but was improved by substituting large words like for abbreviations. 'Photovoltaics' became 'PV'. This not only decreased the difficult pronunciation, but increased the amount of information able to fit into the allotted three minutes.

The complex content required to be understood in order to create the video was extensive and at a much higher level. This required us to learn a more simplified version, making it significantly easier to translate into a multi-modal form, easier for viewers to comprehend.

## Acknowledgments

Internet sites were used frequently in order to access photographs used throughout the video and assist in animation.

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