

# CSU Sustainability Grant Project Report

(Dot point answers are acceptable)

**Title of project:** TV Studio lighting upgrade to an energy efficient, controllable lighting rig.

## 1. Project aims:

1	To refit the TV Studio with energy efficient lighting
2	To provide a professional studio environment for both video recording and live performances and presentations, utilising contemporary efficient lighting equipment that reflects the green values of the university.

## 2. Project team and other key stakeholders:

<i>Name</i>	<i>Position</i>	<i>Department</i>
Becky Russell	Media Technical Officer	Faculty of Arts and Education

## 3. In what year/timeframe did you receive funding for your project?

<i>From:</i> July 2019	<i>To:</i> July 2019
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## 4. Inputs: budget versus actual expenditure

Please complete the below table if you are unable to attach the grant acquittal statement.

<i>Expenditure item</i>	<i>Budgeted amount</i>	<i>Actual spent</i>
16x LED RGBWAUV Par (12x8w)	\$5,656.11	\$5656.11
2x LED2000 Light Panel DMX units	\$1,299.9	\$1287.99
DMX leads to control the lighting units	\$597.83	\$615.73
Transport	\$87.62	\$84.07
<b>TOTALS:</b>	<b>\$7,641.46</b>	<b>\$7,643.90</b>

## 5. Project timeline:

<i>Step</i>	<i>Brief description of activities implemented</i>	<i>Timing</i>
1	Confirmation of lighting design	Late July
2	Ordering of equipment	August 2
3	Installation of lighting units & leads	August 7 - 9
4	Focusing the rig	August 12
5	Shooting promotional video to introduce the new equipment to users	August 12
6	Programming light states, ready for class use on August 14	August 13

**6. Headline project achievements:**

1	Reducing the energy use of the TV Studio lighting rig more than 85% to align with the sustainability values of the University, while providing a creative and positive experience for users.
2	Opening up the creative use of the space utilising inbuilt full coloured lighting units

**7. Photographs/images:** *(Please attach before and after on ground activities, if relevant)*



Future Moves filming day.



Theatre Media use of lighting system.

A video of the space in its multiple uses is available at the following file path;  
 S:\Common\ Temp Folder Less Than 90 Days\CSU Green\CH TV Studio Green Grant Lighting

**8. Project outputs:** *(As agreed to in the proposal Eg. courseware, tangible tools, maps, infrastructure, signs, catalogue etc.)*

1	Increased use of the space with better quality content being produced.
2	More creative use of the space.

**9. Project outcomes:**

a. Participant/stakeholder **reactions** *(Include any quotes or feedback from stakeholders positive or negative.)*

**Zoe Rodwell (Academic SCCI) “...I love using this space AND love seeing students use it!!” Facebook post SCCI page**

The response has been overwhelmingly positive. The green screen use has been much cleaner and easier to use for journalism students and theatre media students are very excited to use the multi coloured options for their theatre performances and video shoots. The video identified in Q8 was made by students to share with the wider cohort as they were so excited to explore the possibility of the new lighting system.

b. To what extent has your project contributed towards any changes in **knowledge, attitudes, skills and aspirations** regarding sustainability? *(Please summarise your evidence.)*

Changing the old lighting system has allowed staff and students to understand the value of led lighting in such a space and how inefficient the space was prior to the upgrade. It has brought the ‘Green’ conversation more regularly into the space when it is used and encouraged users to think more actively about how else they can be efficient with resources and practises.

c. To what extent has your project contributed towards **behaviour change** around sustainability? *(Please summarise your evidence.)*

As mentioned above, the users have been more proactive in thinking about how to ‘green up’ their resource use. In the student run Sprung Festival of Creativity, events hosted here actively planned and implemented the reuse and recycle of paper, used string ties instead of electrical tape or cable ties to secure items and consciously turned off equipment when not in use.

Students also spoke of how they had started to think about how much energy their homes were using by leaving equipment and lights on when not required and how they were choosing to switch things off when not in use.

- d. **Impact – The most significant change** approach involves generating and analysing personal accounts of change and deciding which of these accounts is the most significant – and why.

Briefly **list the changes** that occurred as a result of this project. *(Positive and/or negative)*

1	More energy efficient use of the space and its resources.
2	More mindful use of the space and how to recycle and minimise energy and physical waste.
3	Enhanced client experience – cleaner lighting for video recording.
4	Quieter workplace – no electricity buzz.
5	More interactive and creative workplace for users.

- e. Select one change that you feel is **the most significant change** and **explain why** you selected this change?  
*(Justify)*

Massive saving of more than 85% of energy in the space when in use. As a resource that is growing the use, it was imperative that the lighting be upgraded to energy efficient units and that the venue appropriately align with the University green policy.

- f. Briefly describe what was the situation like **before** your project?

Old lighting facilities in the Creative Hub TV Studio required a large amount of power to operate. The rig comprised of 14x 2000w Arri fresnels traditionally used in professional TV studio environments. Thus to properly utilise the space for video recording or presentations the lighting rig would be using 28,000watts worth of power.

This space was limited to only one tone of light and if the space was required to be more creative and colourful, we would have to rig extra lighting, adding to the energy load. Additionally, this traditional set up created an audible buzz in the space.

- g. Briefly describe what is the situation like **now** at the conclusion of your project?

*(Additional supporting materials may be supplied to demonstrate before and after scenarios if desired.)*

This upgrade to contemporary lighting options, not only replaced the basic requirement of the old system, but has enhanced it to become a more dynamic space with the ability to colour control the lights – thus encouraging students to be more creative and adventurous when using the space for performances and recordings while also ensuring the value of the space is used efficiently into the future. The space is now more enjoyable to work in without the buzz from the old lights as well as the new lighting running cool – thus keeping the room temperature more consistent.

## 10. Amendments to the project - What did not go so well?

1	Timing of project start – missing the Open Day deadline due to my inexperience of university processes.
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## 11. What were the key lessons learnt?

1	To be more proactive when ignorant of processes and ask questions when unsure.
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## 13. Recommendations for the future:

1	Request confirmation of money transfer from my immediate supervisor when Green Grant confirmation has been communicated.
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Please call Kym Witney-Soanes (34226) at the CSU Green Office if you have any issues populating this template.  
Send your completed report to [csugreen@csu.edu.au](mailto:csugreen@csu.edu.au)