



GIVING WEEK SG 2016 Post Activity Report (DIY Lamp-making Workshop)

EWB-SG/2016/0005
06-Dec-16



Engineers Without Borders (Singapore)

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**GIVING WEEK SG 2016
Post Activity Report
(DIY Lamp-making workshop)**

A report submitted in fulfillment of the Giving Week SG 2016 activity with National Volunteer and Philanthropy Center and Tanjong Pagar Youth Executive Committee, Singapore on 3 and 4 Dec-16 at Tanjong Pagar CC to raise awareness and educate the public on the importance of repurposing household waste to save the environment.

06-Dec-16

Partners:



National Volunteer and Philanthropy Center (NVPC)

NVPC is a non-profit organisation promoting a giving culture in Singapore through catalysing development in volunteerism and philanthropy to build a City of Good. They facilitate partnerships with non-profits, companies, public sector bodies and individuals to enliven the giving ecosystem within Singapore.



People's Association Youth Executive Committee (PAYEC)

People's Association Youth Executive Committee, under the umbrella of Tanjong Pagar CC Youth Club and part of the People's Association Network is a youth club that aimed to promote friendship, develop talents, channel energies, explore potentials and encourage leadership skills.

ABSTRACT

In fulfilment of our objective in engaging the local communities with worthwhile engineering-based projects, Engineers without Borders (Singapore) – thereafter known as EWB SG, was approached by NVPC and PAYEC to participate in Giving Week SG 2016.

The annual Giving Week SG movement stemmed from “GivingTuesday” - a vision founded by the United Nations Foundation and 92Y. Taking it one step further, NVPC dedicated a whole week a year, to connect people and organisations with giving opportunities to embark on their giving journey, as well as help deepen their commitment to causes they care about.

The partnership sees EWB SG once again working with PAYEC (Tanjong Pagar), collaborating on raising awareness on reducing waste through their event “Let’s Talk Rubbish”. EWB SG’s role in this event is to conduct workshops using recyclable materials, as well as to display an innovation which repurposed such materials.

With the theme of “Recycle, Reduce and Reuse” in mind, EWB SG conducted workshops on DIY Table Lamps, and we also developed and displayed the Eco Cooler (an innovation by Ashis Paul from Bangladesh) as an exhibit.



Figure 1: Publicity banner for “Let’s Talk Rubbish” exhibition

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ABBREVIATIONS

Abbreviation	Description	Page
EWB SG	Engineers Without Borders (Singapore)	i
PAYEC	People’s Association Youth Executive Committee	i

ACKNOWLEDGEMENT

We would like to take this opportunity to express our deepest gratitude and appreciation to the following groups and individuals for their invaluable help and support along the course of this project. The project would not be successful without them.

Firstly, we would like to thank Mr Puar Si Liang of NVPC, the project lead of Giving Week SG 2016, for contacting us and giving us the opportunity to participate in this meaningful activity.

Secondly, our tremendous appreciation to Lim Peiting, Vice-Chairman of People's Association Youth Executive Committee (Tanjong Pagar). Without her support and constant efforts in coordinating the logistics and the parties involved, namely the volunteers from Tanjong Pagar Youth Club and EWB SG, this project would not have been possible.

We would like to give special thanks to EWB SG's Serene Koh, for leading and supervising this project from the initial planning to actual implementation.

We would also like to thank the volunteers from EWB SG, for volunteering their time to help during the trial session and actual event.

Lastly, we would like to thank and credit Mr Ashis Paul (creator of the Eco Cooler), Grameen Intel, a social business information technology, and advertising agency Grey Dhaka, all of whom provided the blueprint of the Eco Cooler online for public's usage.

NG Saye Phin

CHAPTER 1

INTRODUCTION

This chapter will discuss the background of the project.

1.1 Prelude

In fulfilment of our objective in engaging the local communities with worthwhile engineering-based projects, EWB SG was approached by NVPC and PAYEC to participate in Giving Week SG 2016.

The annual Giving Week SG movement stemmed from “GivingTuesday” - a vision founded by the United Nations Foundation and 92Y. Taking it one step further, NVPC dedicated a whole week a year, to connect people and organisations with giving opportunities to embark on their giving journey, as well as help deepen their commitment to causes they care about.

The partnership sees EWB SG once again working with PAYEC (Tanjong Pagar), collaborating on raising awareness on reducing waste through their event “Let’s Talk Rubbish”. EWB SG’s role in this event is to conduct workshops using recyclable materials, as well as to display an innovation which repurposed such materials.

With the theme of “Recycle, Reduce and Reuse” in mind, EWB SG conducted workshops on DIY Table Lamps, and we also developed and displayed the Eco Cooler (an innovation by Ashis Paul from Bangladesh) as an exhibit.

1.2 Objectives

In conjunction with Giving Week SG, we partnered with PAYEC for their “Let’s Talk Rubbish” event, to raise awareness and educate the public on the importance of Reduce, Reuse and Recycle to save the environment. This 2-day event (3 and 4 Dec) will be structured as an experiential journey, where the public can walk through displays on the waste generated at home, visit booths from other partners (i.e. NEA, International Coastal Cleanup, etc), and lastly, participate in our workshop where they can try their hands on making their own table lamp from disposable mineral water bottles and old magazines.

The objectives set out are as follows:

- a. Engage the public with engineering-based projects (electrical wiring and creating table lamps)
- b. Kindle engineering interest with the public through live workshops.
- c. Introduce and acquaint the public with innovations which made use of recyclable materials and repurposed into something beneficial and functional for the less privileged in the poorer areas of some countries.

CHAPTER 2

IMPLEMENTATION

This chapter focuses on the implementation of the workshop.

The following were photos taken during the preparatory and implementation stages of the project.

Preparatory Session



Figure 2: Trial Session for lamp making and creating Eco Cooler

Actual Event



Figure 3: Hanging Lamp and Eco Cooler Display exhibits



Figure 4: Day 1 - Assisting the participants during fabrication stage



Figure 5: Day 2 - Assisting the participants during fabrication stage



Figure 6: With a participant and his completed lamp

The implementation of the project concluded with the testing of the table lamps to ensure the wiring is accurate and bulbs are working.

CHAPTER 3

LESSONS LEARNED

A common knowledge that is shared by many is that in midst of a project implementation, problems will be encountered. In short, no project can be successful without encountering and overcoming the problems. Hence, this chapter will discuss the lessons learned during the implementation of the DIY Lamp Making workshop.

Lesson Learned No. 1	Our intention was to prepare a per-person set of materials once the participant arrives. However, we did not factor in the stream of participants' vis-à-vis our manpower resources. As such, some participants had to wait a while before we could have the materials prepared for them.
Solution:	For future workshops, all materials for each person should already be prepared before-hand to ensure low/no waiting time.

Lesson Learned No. 2	The workshop is supposed to be only 40mins per session – however, most participants stayed for an average of 1.5 hours. This is due to the dressing of the lamp, which required more time than expected.
Solution:	EWB members should time themselves during our trial session to have a better estimate of the time required to complete the project. This will help us to manage the participants' expectations.

Lesson Learned No. 3	One of the participants wired the plug incorrectly, resulting in a short circuit which affected the entire multi-purpose hall.
Solution:	Although we believed that the older participants can be left to manage the wiring process with minimal supervision while we help out the younger ones, we have realized that we should always check the final product to ensure accuracy.

CHAPTER 4

CONCLUSION

This chapter concludes the Giving Week SG DIY Lamp-making workshop. The project satisfied all areas and below objectives have been met:

- a. Engage the public with engineering-based projects (electrical wiring and creating table lamps)
- b. Kindle engineering interest with the public through live workshops.
- c. Introduce and acquaint the public with innovations which made use of recyclable materials and repurposed into something beneficial and functional for the less privileged in the poorer areas of some countries.

REFERENCES

World Wide Web

YouTube, published 9 Jun 2016, Eco-Cooler- The No Electricity Air Cooler - Yes, Zero Cost A/C
<https://www.youtube.com/watch?v=KPbTRKYgZWY>

Posted by GadgTecs

DailyMail online, Stacy Liberatore, How to cool your apartment for free: DIY aircon uses old plastic bottles - and is already used in used in 25,000 Indian homes, 10 June 2016
<http://www.dailymail.co.uk/sciencetech/article-3635710/How-cool-apartment-free-Electricity-free-DIY-aircon-uses-old-plastic-bottles-used-used-25-000-Indian-homes.html>

APPENDICES

Eco Cooler Blueprint



AN INITIATIVE BY THE EMPLOYEES OF



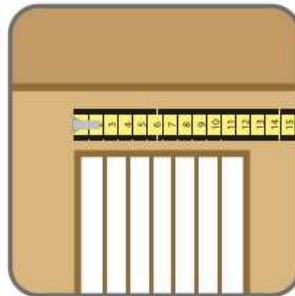
HOW TO MAKE YOUR OWN ECO-COOLER

Eco-Coolers can help reduce temperatures in tin huts. Ensure to choose the window with the best wind flow for installing the Eco-Cooler. Follow the simple steps shown below to make your own Eco-Cooler.



STEP 1

Gather as many used soft-drink and water bottles. The bigger the size difference between the body and the rim of the bottle, the better.



STEP 2

Measure the window you want to make the Eco-Cooler for. And cut a sturdy 2mm medium density board or similar sturdy board in the same size.

Make sure to keep atleast half an inch flushed around all the sides. This will ensure you have the perfect sized Eco-Cooler.



STEP 3

Cut holes in the board according to the measurement of the rim of the bottle. Make sure the cuts are spaced out according to the body size of the bottles.



STEP 4

Using a pair of scissors, cut the bottle in half - along the body of the bottle.



STEP 5

Cut away the top of the bottle cap. This will help fix the bottle into the board.



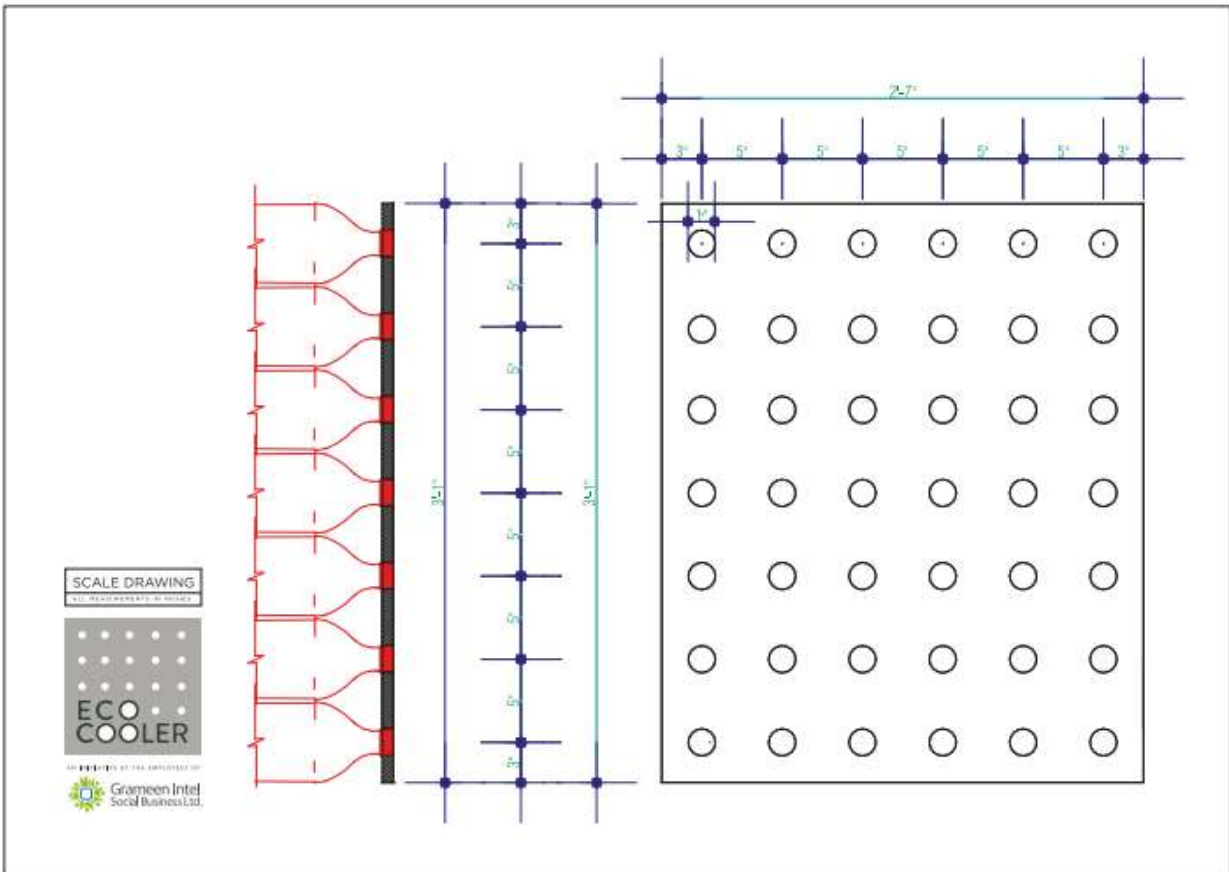
STEP 6

Pushing the cut bottle from the outer side of the board, twist the cap from the inner side and tighten it, to keep the bottle in its place.

Repeat for the remaining bottles and fix the Eco-Cooler from the outer side of the window.

A SCALE DRAWING IS ALSO AVAILABLE WITH THIS PDF FOR 2000ML BOTTLES

Share your Eco-Cooler stories on www.facebook.com/gisbl | Visit www.eco-cooler.com for more information



Giving Week 2016 (NVPC)



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Lighten Up!

Date: 03 Dec 2016
Time: 11am - 5pm
Venue: Tanjong Pagar Community Centre (101 Cantonment Road, Singapore 081776)
Fee: - \$0 per session
Price: \$2 per lamp (lighting components included)

Sign up for 12pm <http://bit.ly/ewb2016lightenup>
Sign up for 2:30pm <http://bit.ly/ewb2016lightenup>

Always wondering about what to do with all the post-year 12A catalogues, or try old editions of magazines? Well, instead of throwing them out, apply a little ingenuity, and you can actually create your very own bedside table lamp!

With some magazine pages, a lead mineral water bottle, and some very easy to find electrical parts, put on your little engineer's hat and customise the lamp to your heart's content. In order to spread the word on the importance of Reduce, Reuse, and Recycle (why not throw in Re-engineer as well), consider making these beautiful lamps as gifts for your friends and family members like Christmas and for special occasions as well.

To get you started on this creative journey, join them in the special "Let's Talk RUSTLE!" segment as part of Singapore's #GivingWeekSG programme, where they will assist you with the simple electrical engineering basics of constructing your own lighting component, and guide you along in making this unique lamp.

Just lighten up and get ready to brighten your bedroom with a little sparkle! They look forward to seeing you!

Engineers without Borders (Singapore)
Engineers without Borders (Singapore) is a non-profit organisation and the official Singapore chapter of Engineers without Borders International. Our mission is to facilitate links and collaboration among its member groups toward improving the quality of life of disadvantaged communities in South East Asia, through education and implementation of sustainable engineering projects.

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TANJONG PAGAR CC

LIGHTEN UP! (1) - SAT (A25242383)

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 Activities

Activity Content

Ever wondered what to do with all the past years' IKEA catalogues, or any old editions of magazines? Well, instead of throwing them out, apply a little ingenuity, and you can actually create your very own bedside table lamp! With some magazine pages, a used mineral water bottle, and some very easy to find electrical parts, put on your little engineer + artist hat and customise the lamp to your heart's content in order to spread the word on the importance of Reduce, Reuse, and Recycle (why not throw in Re-engineer as well), consider making these beautiful lamps as gifts for your friends and family members this Christmas and for special occasions as well.

Activity Details

Date: 03-Dec-16 (Sat)

Day/Time: SATURDAY 12:00 PM - 12:40 PM

No. of Sessions: 1

Venue: TPOC MPH

Class Size: 1 - 10

Language: ENGLISH

Registration Closing Date: 30-Nov-16

* Indicates required field

Activity Fees	Members	Non-Members	Others
Activity Fee	\$2.00	\$2.00	-

To add participant , enter Passport/NRIC No./FIN and click Add

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- THE CC MAY HAVE TO MAKE ADJUSTMENTS TO THE ACTIVITY SUCH AS POSTPONEMENT OF ACTIVITY OR CHANGE OF VENUE DUE TO UNFORESEEN CIRCUMSTANCES.
- PLEASE UPDATE THE CC OF ANY CHANGES IN ADDRESS OR CONTACT NUMBER SO AS TO FACILITATE COMMUNICATION.

I hereby declare that all information provided are true and correct; and agree to abide and be bound by the Terms and Conditions of the Community Club Management Committee, other People's Association Organizations and authorize the People's Association to disclose my personal information to its employees, service providers, vendor and affiliated partners.

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Giving Week 2016 (Tanjong Pagar Community Club)



LET'S TALK RUBBISH
AN EXPERIENTIAL EXHIBITION ON WASTE
AT TANJONG PAGAR CC

3 & 4 DECEMBER 2016

PROGRAMME LINE UP

- 11:30am - 1:30 pm: CASH FOR TRASH**
Veolia Environmental Services Singapore
- 12 - 12:40 pm: Lighten Up! Lamp making workshop***
Engineers without Borders
- 12 - 12:20 pm: Guided tour**
National Environment Agency
- 1:30 - 2:30 pm: Talk & Q&A session**
International Coastal Cleanup Singapore
- 3:30 - 3:50 pm: Guided tour**
National Environment Agency
- 3:30 - 4:10 pm: Lighten Up! Lamp making workshop***
Engineers without Borders

**Workshop is limited to 20 seats per session and at a nominal fee of \$2 per person.
Register at Tanjong Pagar CC or one.pa.gov.sg today.*

PROUDLY BROUGHT TO YOU BY:

-  **VEOLIA**
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Lee Kong Chian Natural History Museum
-  **International Coastal Cleanup Singapore**

A PART OF GIVING WEEK 2016
GIVINGWEEK
29 Nov - 5 Dec 2016

PICTURE CREDIT: WWW.FREEMIX.COM

Giving Week 2016 (Engineers Without Borders Singapore)

GIVINGWEEK

JOIN US TO CREATE YOUR OWN TABLE LAMP
USING RECYCLED MATERIALS.
JUST REMEMBER TO SET ASIDE A NICE SPACE
TO PLACE YOUR LAMP WHEN YOU GET HOME.



Simply register your slots today.
Only 10 slots available per session!

Details

Venue: Tanjong Pagar
Community Centre
Date: 3 and 4 Dec 2016
Sessions:
a) 12.00 – 12.40pm
b) 3.30 – 4.10pm