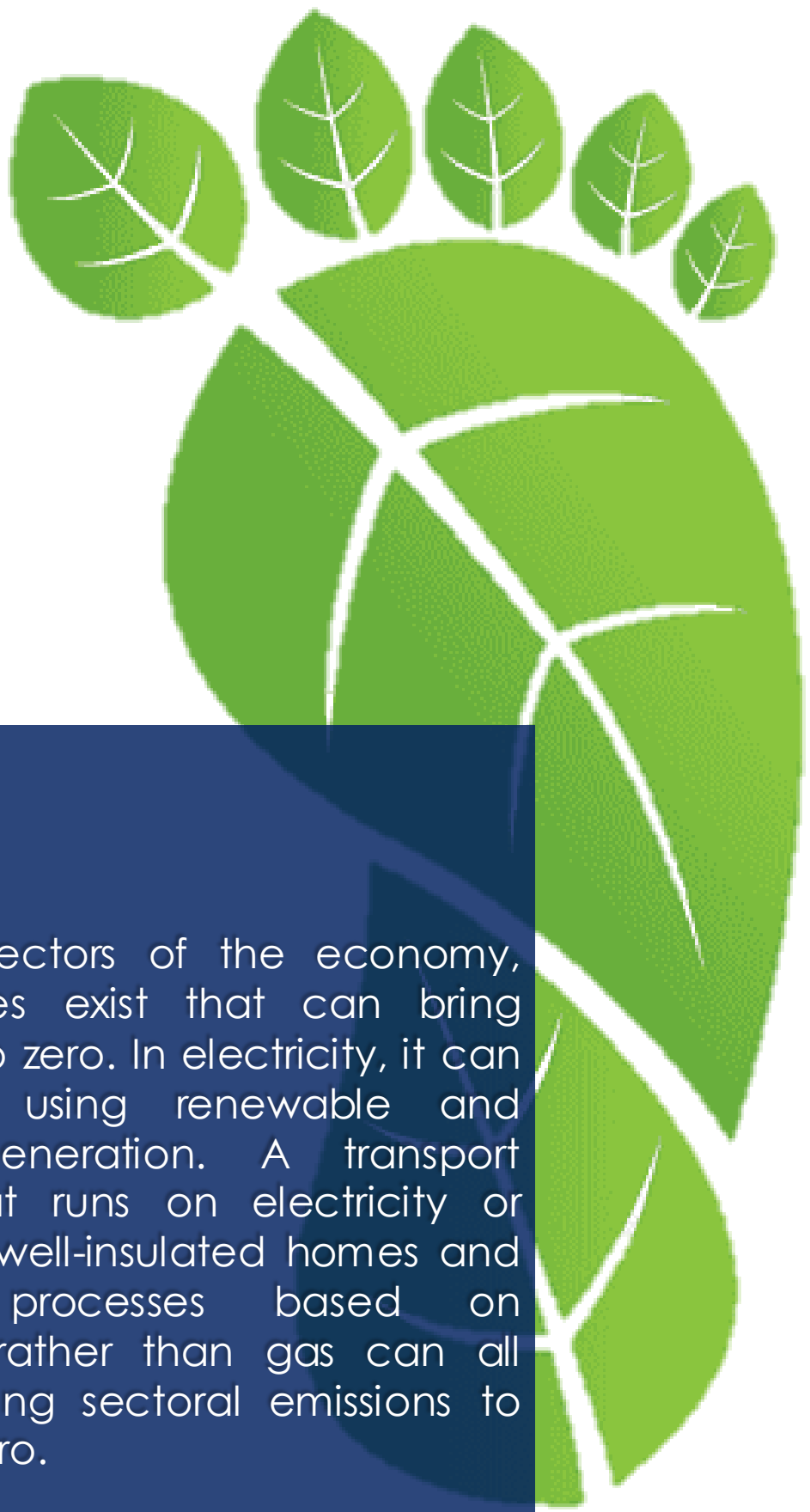




# SHORT-TERM MOBILITY PROGRAMME

## NET ZERO HERO

Achieving Carbon Neutrality:  
A Multi-disciplinary Approach Towards Net Zero



In many sectors of the economy, technologies exist that can bring emissions to zero. In electricity, it can be done using renewable and nuclear generation. A transport system that runs on electricity or hydrogen, well-insulated homes and industrial processes based on electricity rather than gas can all help to bring sectoral emissions to absolute zero.



However, in industries such as aviation the technological options are limited; in agriculture too, it is highly unlikely that emissions will be brought to zero.

Therefore, some emissions from these sectors will likely remain; and in order to offset these, an equivalent amount of CO<sub>2</sub> will need to be taken out of the atmosphere – negative emissions. Thus, the target becomes 'net zero' for the economy as a whole. The term 'carbon neutrality' is also used.



#GlobalHeart

#GlobalHome

#GlobalFuture

While the Paris Agreement sets a global objective, action to achieve that objective is driven at the national level – each stakeholder is responsible for setting their own policies to achieve the common goal. UNIMAS is part of the initiative too! The delivery of these policies will take place at the local level. At UNIMAS, Institute of Sustainable and Renewable Energy (iSURE), UNIMAS Sustainability Centre (USC) are among the key players supporting the initiatives.

**COME JOIN US IN UNIMAS**



Sarawak Energy's Murum Hydroelectric Plant | Photo: Sarawak Energy

## **Proposed duration**

14 days

## **Location**

UNIMAS

## **In Collaboration with**

Minister of Energy and Environmental  
Sustainability (MEESTy)  
and  
Institute of Sustainable and Renewable  
Energy (ISuRE),  
Universiti Malaysia Sarawak

## **Theme**

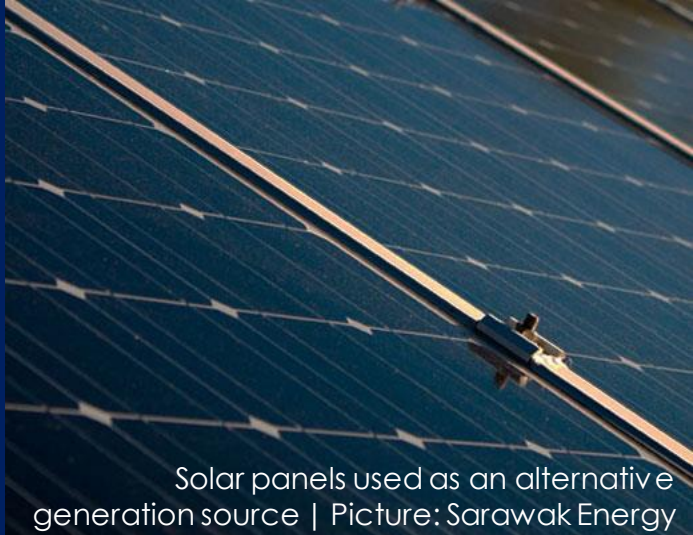
Multidisciplinary and Integrated Approach  
to Net Zero Transition

## Aims and Objectives

The goal of the short-term mobility program is to create awareness on concerted efforts towards net zero to future young leaders.

## Objectives with mapped SDG Goals

- To promote sustainable and renewable energy – **SDG 7: Affordable and Clean Energy**
- To promote the development of sustainable cities – **SDG 11: Sustainable Cities and Communities**
- To create awareness on concerted efforts towards net zero – **SDG 13: Climate Action**



Solar panels used as an alternative generation source | Picture: Sarawak Energy



UNIMAS implemented a project for energy efficiency by practicing the use of LED lights | Picture: SQRC UNIMAS



UNIMAS Mobility Students went for community outreach for furniture upcycling projects & pledged to bring greenhouse gas emissions to net zero

## Target Participants:

15-25 participants (Min. 15 pax)

## Fees

USD 1,000 per person

## Eligibility

To be eligible to enroll for these courses, students must have the following:

- i. Currently enrolled as an undergraduate student in a university with credit transfer arrangements with UNIMAS.
- ii. 2nd or 3rd year students

## Application Procedures:



Check if there is  
an exchange  
agreement



Email the  
contact  
person



Fill up Mobility  
Application  
form



Get ready  
to fly!

## Transfer of Credit:

- Credits will be awarded to students who have successfully completed the courses.
- As credit transfer policies vary among universities, you are advised to check with your home university if the credits you earn in the course that you enroll in at UNIMAS can be transferred over to your home university.
- Transfer of credit formula:  
 $40 \text{ SLT (Student Learning Time)} = 1 \text{ credit}$





## Detailed Itinerary:

Day 1 : Introduction to carbon footprints

Day 2 : Implications of Carbon Footprint

Day 3 : Calculating your own carbon footprint

Day 4 : World pledge on Net Zero

Day 5 : Carbon source and Carbon Sink

Day 6 : Self-preparation for Global Reporting Initiative

Day 7 : Digital infrastructure for net zero

Day 8 : E-waste management

Day 9 : Let's Chat about Carbon: Understanding jargons

Day 10 : Let's Chat about Carbon: My Net Zero Stories

Day 11 : Communication &  
Day 12 : Awareness: Fake news and fallacies

Day 13 : Design Thinking Competition

Day 14 : Closing Ceremony

*\*Modules are subject to change at any time*





Sarawak Alternative Rural Electrification Scheme, thousands of households in hundreds of remote villages throughout the interior of Sarawak will have access to reliable and renewable 24-hour electricity by 2020 | Picture: Sarawak Energy

## Module Outcomes:

- Reflect and revisit their role in the multidisciplinary approach to net zero transition.
- Align and pledge their commitment to embark on the net zero agenda at their respective institution or community.
- Identify value creation opportunities in the transition to a low carbon, sustainable and equitable future.



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