



ENERGY CLUB WA NEXT GENERATION SCHOOLS PROGRAM

Connecting the Next Generation to
careers in the energy industry.

Quarterly Report
October - December 2023

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NEXT GENERATION SCHOOLS PROGRAM REPORT

The 2023 Next Generation Schools Program is now complete, and the committee has begun planning for the 2024 program. It has been a busy year for our schools and the program continues to grow with more schools, more mentors, and more opportunities available to the next generation. Feedback from our 2023 participating students, teachers and mentors thus far has been overall positive.

We hosted over four hundred students, teachers, mentors, and exhibitors at ECU's Joondalup Campus on 1st of December for the Perth Student Expo Day. The highlight and competitive aspect of the program, with our top four teams receiving an exciting industry-based prize.

2023 PARTICIPANTS

We are pleased to have had over 1,600 students from 28 schools taking part in this year's program. Each year we aim to expand even further and reach out to more regional schools, increasing participation of one new school per year. We are delighted to exceed these goals once again, with an additional three regional schools becoming involved for this year.

We continue to consult with schools in the Kimberley and Pilbara regions, to encourage participation in the program. Karratha Senior High School, St Luke's College Karratha, and Exmouth Senior High School have once again all confirmed their participation for the 2024 program. Broome Senior High School and St Mary's College Broome also still remain a focus and we will look to attend the Broome Careers Expo again in 2024 to continue our community engagement in the area.

Our full list of schools participating for this year are:



SITE VISITS AND EXCURSIONS

Thanks to our sponsors we were able to provide students visits out to home-grown projects and local workplaces, an expanding inclusion to the Next Generation Schools Program.

Throughout 2023 we had various schools accept the opportunity to attend excursions provided by our program partners and sponsors. For our metropolitan students, this included visits at UWA's Crawley Campus and their Shenton Park Facility where they were able to participate in activities and demonstrations. Students also toured the facilities at ERGT and Baker Hughes, taking part in real-life industry relevant exercises, such as escaping a confined space, observing fire safety training, practise run simulations with the fire extinguishers, and observing flares.

The Perth Basin based students attended a rig site, thanks to Mineral Resources Limited and Strike Energy, students got the chance to speak with industry representatives and find out about the projects going on in their own backyard. All students who took part in the excursions had a fantastic time and we would like to express a huge thank you to all involved in the organisation of these excursions, it takes extensive preparation and scheduling and is very appreciated.

These visits are invaluable for the students to see what is happening locally, as well as becoming aware of the possible career prospects.



PARTNERSHIPS AND COLLABORATIONS

This program heavily relies on the participation from industry mentors and sponsorship to ensure we can continue to inspire the “next generation.” We are pleased to have the support from the following program sponsors below for the 2023 program:



Based on the feedback received and a high demand from the number of schools participating each year, the program continues to expand and develop its offerings to the next generation. Energy Club WA are seeking further funding to allow us to meet this demand. Extra support and funding grant the expansion of the program, to be able to reach more schools and diversify the prospects for all students involved, through work experience and site visits to local businesses.

THE PROGRAM

It has been a busy year for our schools and mentors, with all four school visits completed by November, plus the Student Expo Day held in the first week of December.

Throughout the program students learnt about the impact the energy industry has on society, as well as how the industry is transitioning for a greener future. Each of the visits included presentations to help students better grasp the intricacies involved and various interactive activities to reflect real-life instances widely used throughout the industry today. Students also had the opportunity to speak with a panel of mentors, who each shared their own experiences and emphasised the career pathways that they took.



Below provides a breakdown of each of the program's visits in more detail:

INTRODUCTION TO THE ENERGY INDUSTRY – VISIT ONE

The first mentor session provided students with an introduction to the energy industry and the impact it has on society. This year's program focused on the positive impact the industry has and the way in which it affects our day-to-day lives. Students thoroughly enjoyed the Skittles game, a version of Who am I, which helped to explain about the types of fuels and aided students to having a guess of which one they were in the activity; an added bonus was getting to finish off the skittle lollies at the end.

PROJECT LIFECYCLE AND CAREERS – VISIT TWO

The second visit focused on the project lifecycle and the diverse range of careers required to help complete a project, highlighting the array of opportunities available within each tier of the project cycle to our next generation. This visit included a dreams and nightmares activity which helped them to identify what interests they would ideally like and dislike to have in their future jobs, then in pairs students ran role play interviews on their chosen careers. This activity aids students to identify and share personal strengths and characteristics, as well as correlate how these qualities might impact their career paths.

THE FUTURE OF ENERGY – VISIT THREE

The third visit concentrates on renewable energy developments, the future mix of energy, how all the different energy sources work and what the benefits are of each source. Activities for this session required students to demonstrate how they would cook toast with sunshine, using the provided materials. The second task outlines the evolution of cars, the relationship between a standard car, hybrid, and electric cars. Students had to identify all components from the provided list and which components would be common and shared between all three example cars.

PANEL MENTOR CAREER PRESENTATIONS – VISIT FOUR

The fourth visit takes you on a journey of careers. We invite 3 to 4 mentors from various backgrounds to share their career journey in the energy industry so far. Mentors will rotate between each student group to provide a 'speed networking style' show and tell of their careers. This provides more insight into the range of careers available, as well as the various paths taken to achieve them and allows a more inclusive conversation for students to feel comfortable and ask questions.

WOODSIDE ENERGY TRANSITION GAME - VISIT FIVE (OPTIONAL)

The optional fifth visit is a game provided by Woodside Energy which aims to take students on a journey from now until 2050. The intent of the game is to demonstrate the variables of a changing energy mix into the future with increasing demand of power for development but a need for lower emissions. The game demonstrates the complexities of providing energy to the world and the difficulties in transitioning to a low carbon energy market.

STUDENT EXPO DAY

The competitive factor of the 2023 program is the Student Expo Day, held at Edith Cowan University Joondalup on the 1st December 2023.

Every year we invite all the students throughout the program, urging those in particular who have shown a strong interest in the Energy Industry. This year, we had over three hundred students attend, which goes to show the impact the program is having on our next generation. The Expo Day also exposes students to see how campus life operates and gives them an opportunity to scope out the amazing facilities and courses that ECU has to offer.

Our sponsors and partners provided amazing interactive displays and simulations for the students to participate in, in a fun and interactive environment. This also helps facilitate the question-and-answer process between students and industry representatives.

Students are to gather into designated their teams and can visit through each of twenty-three interactive displays and quizzes setup around the campus, generating team points on completion of each activity. Teams are able to generate extra bonus points by completing the creative games and quizzes based on what they had learnt throughout the year.

The day involves around one hundred volunteers, running the exhibits and quizzes, which was a tremendous success; thank you to those who were able to attend and for all their support. Once again, it was a fantastic day thanks to the support of all our exhibitors, sponsors, mentors, teachers, and students.

THIS YEARS EXHIBITS

Australian Earth Science Real World Problem Solving, Baker Hughes Water Bottle experiment and 3D pen creations, CSIRO VR Web Journey, ECU Humanoid Robot 'JD', ERGT Safety PPE Emergency, ECWA Lego Structure Build & Quizzes, GeoOceans Robotic Arm Activity, iFly Parachutes and Terminal Velocity Workshops, INPEX VR Facility Visit, Jacobs VR Demo & Design, Mitsui E&P Booth & Mystery Quiz, Oceaneering ROV, PAC Valve Model Exploration, Qetra Emergency Safety Shower Construction Trials, SLB Kerplunk Activity and Skirmish Card Game, SupplyAus PPE Equipment, TechnipFMC Introduction and Mimic Subsea Development, Woodside Energy Robot 'Spot' Demonstration and Goodwyn Offshore Platform VR. Worley 3D Safety Challenge, Yokogawa Instrument, Control and Cloud SCADA Demo Pod.

Thank you to all our program supporters, mentors and volunteers throughout this years program.



2023 PROGRAM PRIZES

This year's competition was remarkably close, but we are pleased to announce the winning schools for 2023 are;



AUSTRALIA'S SAFETY
TRAINING SPECIALISTS

ERGT

1ST: HELICOPTER UNDERWATER ESCAPE TRAINING

Congratulations to Busselton Senior High School, Team 2

Thanks to our sponsor ERGT, students get to experience training in submerged helicopter simulators and learn essential sea survival techniques including life jack and life raft training. The training aims to heighten safety procedures, danger awareness and operational standards for flights over or near water. Students who have previously participated in the HUET training express how they thoroughly enjoyed it, stating it is 'a once in a lifetime experience.'

ELECT
TRAINING & CONSULTING

2ND PRIZE: DAY SAIL ON THE LEEUWIN THANKS TO ELECT

Congratulations to Baldivis Secondary College, Team 2

Thanks to our sponsor Elect Training & Consulting, students can experience the thrill and adrenalin of sailing on Australia's largest ocean-going sail training tall ship, the STS Leeuwin II. Students get to assist crew haul the lines, take the helm, and even try climbing aloft.

**VERTECH
GROUP**

3RD PRIZE: ROPES TRAINING PROUDLY SPONSORED BY VERTECH GROUP

Congratulations to Busselton Senior High School, Team 1

Thanks to our sponsor Vertech Group, students can encounter new skills at new heights. Rope access is the safest and most dynamic method of working at heights. Students learn how to use ropes and associated equipment to gain access to work areas that are hard to reach! Although the prize is physically demanding, it is a fun day out and will offer students an idea of the skills required on site.

**iFLY
PERTH**

4TH PRIZE: YES, YOU CAN FLY! THANKS TO OUR SPONSOR iFLY PERTH

Congratulations to Churchlands Senior High School, Team Flash

Thanks to our sponsor iFly, students each receive a Kickstart package which include Pre-Flight Training and one-on-one flight instruction, flight gear rental, and two flights equivalent to three tandem skydiving freefalls from 12,000 ft.

THANK YOU TO OUR PROGRAM MENTORS

We are delighted to have the support from over 120 Mentors (Lead and Panel), each volunteering their time to inspire our students. Without their support, we are unable to continue developing and expanding the program throughout Western Australia.

Thank you to our Lead Mentors:

<i>Aileen Stewart</i>	<i>Emily Puzey</i>	<i>Mark Greene</i>	<i>Rui Fernandes</i>
<i>Alex Murphy</i>	<i>Emily Taylor</i>	<i>Martin Soh</i>	<i>Shane Kirkbride</i>
<i>Alison Van Lent</i>	<i>Faisal Ur Rahman Awan</i>	<i>Marzieh Hajarab Derkani</i>	<i>Shreya Gupta</i>
<i>Amy De Groot</i>	<i>Faraz Shamim</i>	<i>Matheesha Jayasekara</i>	<i>Simon Millward</i>
<i>Arielaine Guilles</i>	<i>Francis Elliott</i>	<i>Mathew Baskerville</i>	<i>Steve Barker</i>
<i>Arun Peter Simon</i>	<i>Gareth Brown</i>	<i>Mathieu Higgins</i>	<i>Steve Fogarty</i>
<i>Aseem Maroo</i>	<i>Georgina Maslen</i>	<i>Matthew Wright</i>	<i>Suzanne Borrett</i>
<i>Brendan O'Sullivan</i>	<i>Hamish Smith</i>	<i>Mike Adam</i>	<i>Tanveer Ahmed</i>
<i>Brendan Reid</i>	<i>Jemma Martin</i>	<i>Mohsen Farrokhrouz</i>	<i>Tayah Nguyen</i>
<i>Britt Simmonds</i>	<i>Keith Boyer</i>	<i>Narelle Dale</i>	<i>Usha Patel</i>
<i>Bukkie Orugun</i>	<i>Kelvin Andrijich</i>	<i>Nik Kearney</i>	<i>Victor Gomes</i>
<i>Chris Trowbridge</i>	<i>Kirsten Smith</i>	<i>Pawan Gupta</i>	<i>Yael Bernasconi</i>
<i>Dann Marian</i>	<i>Laura Pecorari</i>	<i>Rachel McIntyre</i>	<i>Yan Mei Ng</i>
<i>Dario Bongiovanni</i>	<i>Lawrence Ryper</i>	<i>Richard Buchanan</i>	
<i>Dave Noblett</i>	<i>Lisa Hercock</i>	<i>Richard Stocker</i>	
<i>Dawn Banner</i>	<i>Mark Chong</i>	<i>Rishi Singh</i>	

If you are interested in continuing or are new to the program, but would like to get involved in mentoring, we will be accepting expressions of interest from January 2024.

To apply for our 2024 program visit the form on our website: energyclubwa.org.au/education/mentor-EOI.

We are unable to run this program without the incredible support we receive from industry. If you would like to learn more or have any queries, than please contact the us today.

Email: education@energyclubwa.org.au

Phone: 08 9226 3779



NEW OPPORTUNITIES

In 2024 we will continue to extend our reach and will invite an additional regional school to take part in the Next Generation Schools Program.

Our program mentors will visit regional schools to facilitate information sessions on career pathways and share their experience working in the industry. This will give us the opportunity to engage with a wider audience and give a greater number of schools across WA exposure to the energy industry.

There were many changes addressed in the 2023 program, and we hope to develop the current program materials even further based on all the constructive feedback we received from students, teachers, and mentors throughout the year.

We have begun updating the program content, however with the ongoing industry environment progression ever-changing, we aim to include even more collaborative and creative thinking activities for next year's students.

HOW TO BE INVOLVED...

The Next Generation Schools Program is the success it is because of the on-going support from our industry. We encourage you to contact our office if you have the time and resources available to commit to the development of the program.

This can be in the way of sponsorship, mentoring, providing interactive displays or volunteering at events or assistance in the coordination of the program itself.





BECOME A SPONSOR

This program heavily relies on the participation from industry to ensure we can continue to inspire the “next generation.”

This is a terrific way to align your organisation with an initiative that engages the wider community and our future workforce, as well as financially supporting the program. This program provides a rewarding opportunity for your organisation, and staff to give back to the industry we work in.

Help us engage with the ‘Next Generation’ of aspiring students and ignite their passion for the energy industry.

Thank you to our Program Sponsors for 2023



BECOME A MENTOR

Volunteer your time and visit with students to share your experiences of working in the energy industry. This is a rewarding opportunity to give back to the industry you work in, engage with the ‘next generation’ of aspiring students and ignite their passion for the energy industry.

We have two different mentor positions available, Lead and Co-Lead mentors or Panel mentors. Lead mentors undertake the full program over four school visits. Panel mentors attend on a panel, as a guest speaker at the fourth school visit to discuss their career journeys and show students the various career paths they can take, and roles they can have within the industry.

PROVIDE DISPLAYS AND PRIZES FOR THE STUDENT EXPO DAY

The expo day gives students an opportunity to gain further insight to industry by exploring through the many different interactive displays and providing games and challenges for the students to compete in, as well as receiving a take home gift pack full of corporate goodies.

If you would like to display your products or services, or have an exciting challenge in mind, then please contact us to find out more.

THANK YOU FOR YOUR SUPPORT

This program would not be possible without the support of our mentors and sponsors. This year, the Next Generation Schools Program was fortunate enough to have significant support from an excellent group of industry representatives who provided mentorship and drive for the program.

Our mentors provide their time on a voluntary basis, allowing students the opportunity to hear firsthand from industry professionals, sharing their skills and experiences.

The future is in our hands, and the Next Generation Committee look forward to building and developing the program with your cooperation. We hope to see you in the new year!

To get involved, please contact Michelle Kearney, Next Generation Schools Program Coordinator at: education@energyclubwa.org.au, or phone us on 08 9226 3779.

