

Connecting the Next Generation to careers in the energy industry.

Quarterly Report
October - December 2024



NEXT GENERATION SCHOOLS PROGRAM REPORT

The Next Generation Schools Program has drawn to a close another year, with the completion of the Perth Student Expo Day at ECU's Joondalup Campus. We are so grateful to see this expo day grow year on year, and enjoyed hosting the students, teachers, mentors, and exhibitors for the competitive component of the program, with our top four teams each receiving an exciting industry-based prize.

Our Next Generation Schools Program committee are excited to now focus on preparations for 2025. It was an action-packed year for our participating schools, and we are so pleased to see that it continues to grow; with more schools, more mentors, and supporting more opportunities that are now accessible to the next generation.

PROGRAM PARTICIPANTS

We are pleased to have had over 1,700 students from twenty-nine schools taking part in this year's program. Each year we aim to expand further and reach out to more regional schools, and are delighted to exceed these goals once again, increasing participation of one new regional school per year.

We continue to connect with and engage schools in the Kimberley and Pilbara regions, and are pleased to have Karratha Senior High School, St Luke's College and Exmouth District High School confirmed to participate for next year. Broome Senior High School and St Mary's College remain a focus and will continue our community engagement in the area.

Our full list of schools participating for this year are:





























































THE PROGRAM

It has been an eventful year for our schools and mentors. With each completing the presentation components throughout the terms, plus fitting in the local excursions and Student Expo Day, all before the end of the year.

Students learnt about the impact the energy industry has on our society, and how it is working to transition for a greener future. Each of the mentor visits included presentations to help students better grasp the complexities involved and various interactive activities to reflect on real-life instances widely used throughout the industry today. Students also had the chance to speak with a panel of experienced industry professionals and recent graduates, who each shared their own experiences and 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 provides students with an introduction to the energy industry and the impact it has on society, and the way in which it affects our day-to-day lives. The interactive component is the *Skittles Game*, (a version of *Who am I*) which elaborates on the types of fuels and aids students with guessing which one they have been assigned.

PROJECT LIFECYCLE AND CAREERS - VISIT TWO

The second visit focuses 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.

This visit includes a dreams and ambitions activity to identify what interests they ideally would *like* and *dislike* in their future jobs, as well as role play interviews on their choosen careers. This aids students to identify and share personal strengths and characteristics, and correlate how these qualitlies 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 then identify all components from the list provided and which of those components would be commonly shared between all three example cars.



PANEL MENTOR CAREER PRESENTATIONS - VISIT FOUR

The fourth visit takes you on a journey of careers. We invite three to four mentors from various backgrounds to share their career journey in the energy industry so far. Mentors rotate around between the groups to provide a 'speed networking style' show and tell of their careers.

This provides more insight into the range of careers available, the various paths taken to achieve them and allows a more inclusive conversation for students to feel comfortable and ask questions.



The optional fifth visit is a game provided in partnership with Woodside Energy which takes students on a journey from now until 2050. The intent of the game is to demonstrate the complexities of providing energy to the world and the difficulties in transitioning to a low carbon energy market.

SITE VISITS AND EXCURSIONS

With the support of our sponsors and partners, we were able to provide students ventures to home-grown projects and local workplaces, an expanding inclusion to the Next Generation Schools Program.

Throughout the year we had numerous schools partake these opportunities. For our metropolitan students, this included visits to 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, taking part in real-life industry relevant exercises, such as escaping a confined space, observing fire safety training, practise simulations with the fire extinguishers, and observing flares.

For students in the Perth Basin, thanks to Mineral Resources and Strike Energy, students got the chance to attend a rig site, speak with industry representatives and find out about the projects going on in their own backyard.

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. They are invaluable opportunities for the students to comprehend what is happening locally, as well as becoming aware of the possible career prospects.



NEW OPPORTUNITIES

Energy Club WA is eager to extend Next Generation Schools Program's reach with more regional schools. We have coordinated for a select few program mentors to engage with these regional schools, on behalf of the Club, to facilitate information sessions on career pathways and share their experiences working in the industry. Exposing a wider audience across Western Australia to the energy industry.

The committee are confident of the new developments for the coming years presentations materials and content updates, after addressing the comments from teachers, mentors, and students over the course of this year. 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.

PARTNERSHIPS AND COLLABORATIONS

This program relies heavily on the participation from industry to ensure we can meet the high demand from the number of schools and their many classes expressing interest in participating year-on-year, as well as the expansion to develop its offerings.

We call upon experienced industry professionals to provide mentorship over the course of the program and organisations to sponsor our initiatives, to ensure we can continue to inspire the "next generation."

Energy Club WA are seeking further funding to meet this demand. Extra support through sponsorship and funding grants ensures growth to be able to reach more schools and diversify the prospects for all students involved, through work experience as well as various site visits to local businesses.





STUDENT EXPO DAYS

MIDWEST

For the first year ever, we held a Midwest Student Expo Day at the Dongara Recreation Centre in Port Dennison, with over 150 students from our participating Midwest school's attend.

This was an incredible opportunity for the regional students to meet industry representatives and take part in fun industry related activities, which would not have otherwise been available to them.

Our sponsors and partners supplied some great interactive exhibits and simulations for the students to participate in. It was a fun and interactive environment for students to gather into their teams and visit through each of the company displays and assess their knowledge with quizzes based on what they had learnt throughout the year from the mentor presentations, setup all around the recreation centre to generate team points on completion of each activity.

The day involved around thirty volunteers, running the exhibits and quizzes, which was a tremendous success; thank you to those who were able to attend on the day and for all their support in the lead up.

PERTH METROPOLITAN

For the past seven years we have partnered with Edith Cowan University to hold our Perth Metropolitan Student Expo Day at their Joondalup Campus during the month of November. ECU have been extremely accommodating to the needs of our exhibitors' requirements for the Expo and having full access to their facilities exposes students to see how campus life operates and allows them to scope out the courses and opportunities that ECU has to offer.

With the invitation open to all metropolitan based schools and students participating in the program, we were excited to have over three hundred and sixty students accept and attend the day, which goes to show the impact this program is having on our next generation.

We had a number of new and returning exhibitors across twenty-four stations to entertain and put our schools to the test. Working in teams' students ventured through the different booths to complete knowledge-based quizzes and time trialled challenges, energy based interactive games, workshops, PPE dress-ups, and virtual reality simulations. There were also some insightful demonstrations with robots, weight drop seismic units and subsea activities, microbot coding and various building tasks involving Lego, and challenges to create the tallest and sturdiest towers using just Marshmallows and toothpicks, and so many more amazing booths.





Overall, the Perth Metroplitan and Midwest Student Expo
Days were an enjoyable day out, full of energy related roles
and experiences and allowed students to ask the exhibitors
questions about their fields. We like to thank the hundreds of
volunteers who were able to assist across both events, as well as
our exhibitors and menors for helping to tour the students around the
campus and recreation centre, ensuring they followed the rotation schedules
throughout the day; it was a marvellous success.

THANK YOU TO OUR STUDENT EXPO EXHIBITORS

Apprenticeship Support Australia Career Consultations and Immersive Reality Experience, Australian Earth Science Education Provide energy to your area, Baker Hughes "Girls Get Set" Information and marshmallow and toothstick structure tower, Beach Energy Energy Boardgame with codeword, BUNJI Enterprises PPE Safety, Central Regional TAFE Virtual reality: Energy roles in industry, CSIRO Virtual Reality Experience, free play Lego mats and merchandis, ECWA Quizzes & Lego builds, ECU Joondalup Microbot coding using Adruino and Robot demonstrations, Enermech Various NDT methods, ERGT Time trials with PPE safety gear dress up, iFly Perth Parachute and Terminal Velocity of Objects Workshops, INPEX VR Goggle experiences with video, Jacob's Digital Design Workshop and virtual reality demonstrations, Midwest Development Commission

Competition for students to Map major projects, Mineral Resources Live
Demonstration using Horizon Energy Box, Mitsui E&P Informational booth
on projects with interactive quiz game, Oceaneering Remote ROV Display
and animation of emerging technologies, Qetra Timed trials for Safety
Shower Assembly, Rapid Geopphysics Accelerated weight drop
seismic unit, Seequent Australia Demonstration of visible geology
and Leapfrog Geo, SLB Wavelength STEM guessing game,
Strike Energy Sandstone under a microscope, TechnipFMC
Mimic a Subsea Development activity, Vertech Group
Presentation with a robotic arm, Woodside Energy
Boston Dynamics Robot and Virtual Reality Experience
platform walk through, Worley 3D Models and VR
walkthrough to review safety challenge.



PROGRAM PRIZES

This year's competition was remarkably close, but we are pleased to announce our winning schools for this year will get to experiences some great prizes thanks to our below sponsors;



AUSTRALIA'S SAFETY TRAINING SPECIALISTS



1ST PRIZE: HELICOPTER UNDERWATER ESCAPE TRAINING

Congratulations to Churchlands Senior High School, Team: 'Tuah Bros 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.'



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

Congratulations to Harrisdale Senior High School, Team: 'Filly'

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.



3RD PRIZE: ROPES TRAINING PROUDLY SPONSORED BY VERTECH GROUP

Congratulations to Churchlands Senior High School, Team: 'Untitled'

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.



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

Congratulations to Busselton Senior High School, Team: 'XX'

Thanks to our sponsor iFly, students each receive a Kickstart package which includes 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 160 Mentors each volunteering their time to inspire our students. Without their assistance, we are unable to continue developing and expanding the program throughout Western Australia.

If you are interested in continuing mentorship, or are new to the program, but would like to get involved in mentoring, we are still accepting expressions of interest for panel mentors for this years program. To apply as a lead mentor for our 2025 program, please visit the online 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

Thank you to our 2024 Lead Mentors:

Alex Murphy	Freya Contos	Masoud Jangani	Sarolta Pudney
Amanda Emery	Georgina Maslen	Matheesha Jayasekera	Shreya Gupta
Andrew Roberts	Gurkaran Bansal	Mathew Baskerville	Simon Millward
Angela Elliott	Hamish Smith	Mathieu Higgins	Steve Barker
Ashrabi Huq Poushi	Holly Escott	Matt Curnow	Steve Fogarty
Batoul Abouelenein	Jeanette Gordon	Matt Santich	Suzanne Borrett
Brendan Reid	Jemma Martin	Matthew Pettersson	Tanveer Ahmed
Britt Simmonds	Joel Brown	Mike Adam	Tien Do
Bryan Pilkington	John McKelvie	Michael Farah	Ting Gorman
Bukkie Orugun	John Gabites	Mitch Taveira	Todd Busby
Carrie McIntosh	Keith Boyer	Muhammad Ismail Khan	Tzia Lai
Dann Marian	Kelvin Andrijich	Narelle Dale	Usha Patel
Dario Bongiovanni	Kirill Isakov	Nik Kearney	Vaibhav Agrawal
Dave Noblett	Kirsten Smith	Pete Rautenbach	Victor Gomes
Dawn Banner	Laura Pecorari	Richard Stocker	Wayne Adams
Dean Kempton	Lisa Hercock	Rishi Singh	Wilco Veerman
Emily Puzey	Malena Oliveras	Rui Fernandes	William Banner
Emily Taylor	Martin Soh	Sam Morris	Yan Mei Ng



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.

BECOME A SPONSOR

This program relies on the participation from industry mentors and organisation sponsorship to ensure we can continue to inspire the "next generation." This is an incredible way to align your organisation with an initiative that engages the wider community and our future workforce, as well as financially supporting the program.

The Next Generation Schools Program provides a rewarding opportunity for your organisation and your staff 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.

Thank you to our 2024 Program Sponsors

















































PROVIDE DISPLAYS, EXHIBITS AND PRIZES FOR OUR STUDENT EXPO DAY

The finale of the program gives students an opportunity to gain further insight by exploring the displays and receiving a take home gift pack with corporate goodies. If you would like to show off your products or services, then please contact us to find out more.



BECOME A MENTOR

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.

Volunteer your time to visit with high school students, from years 8 to 10, and share your experiences of working in the energy industry and ignite their passion. We have two different positions available, Lead and Co-Lead mentors and Guest Panel mentors.

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 is fortunate enough to have significant support from a group of exceptional industry representatives who are providing mentorship and drive for the program.

Our mentors provide their time on a voluntary basis, giving students the opportunity to hear firsthand from industry professionals, share their skills and experiences with the students - one of the most highly valued inclusions to the program.

The future is in our hands, and the Next Generation Committee look forward to building and developing the program with your support!

