



ENERGY CLUB WA
NEXT GENERATION
SCHOOLS PROGRAM

**2022 Next Generation End of
Year Program Report**

NEXT GENERATION PROGRAM REPORT

The Next Generation program introduces Year 8-10 students to the energy industry in a fun, interactive and educational environment. Our aim is to provide information on career pathways and opportunities within the industry.

This is a community initiative that has been facilitated by the Energy Club of WA since 1991.

The 2022 Program concluded in November with the Expo Day held at ECU Joondalup, with approximately 300 students, teachers and mentors in attendance. There was the competitive component of the program, with our top three groups taking home some exciting industry prizes.

It has been a busy year and the program continues to grow, with more schools, more mentors and more opportunities available to the next generation.

2022 PROGRAM PARTICIPANTS

We're pleased to have over 1,300 students from 23 schools who participated in this years program. Our aim is to expand the program regionally, increasing regional participation by at least one school per year – we are far exceeding this with 2 new regional schools participating in the program this year; taking the program to Busselton, Exmouth, Champion Bay, Dongara, Jurien Bay, Morawa, Central Midlands and Carnamah.

The full list of participating schools for 2022 are:



We continue to liaise with schools in the Kimberley and Pilbara regions, to encourage participation in the program. Karratha SHS have confirmed participation in the 2023 program and Broome SHS & St Marys also remains a focus.

In addition to those schools listed above, we continue to receive expressions of interest from metro and regional schools who have heard about the program through word-of-mouth promotions with three new metro schools set to participate in the program in 2023.



SITE VISITS AND EXCURSIONS

Site visits to local projects and excursions to local workplaces are a developing inclusion in the Next Generation Schools Program.

In lieu of an excursion this year due to covid, we took the Woodside Energy Transition Game to the Perth Basin schools. The game 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.

Throughout Term 3, several industry organisation's offered excursions to their facilities for schools participating in the program. These companies were ERGT, Baker Hughes and Oceaneering; their offerings are much appreciated. The students had a fantastic time and were given an insight into what the facilities are like in real life, while also showcasing the diversity of careers available to them across the industry. We will be continuing this into the 2023 program with the support of these fantastic partners.



PROMOTIONS AND PUBLICATIONS

We have had the spotlight on the program in the past year, with the program promoted through social media, event presentations and industry conferences and expos.

Our Perth Basin Mentor Hamish Smith, was also given a mention in Carnamah's school newsletter for his presentation of the program in their school. This has allowed us to increase our exposure to industry, and to schools and external stakeholders.

One of our most valuable promotional platforms is LinkedIn, with our program mentors posting photos and updates on their school visits. This generates strong engagement from over 9,000 followers.

We aim to increase our Instagram and Facebook profile so we can reach the broader community with social media communication, while LinkedIn engages industry professionals.



PARTNERSHIPS AND COLLABORATIONS

This program relies on the participation from industry mentors and sponsorship to ensure we can continue to inspire the “next generation”. We’re pleased to have the support from our program sponsors below:



Based on feedback and demand from schools, the program continues to expand and develop opportunities for the next generation. Energy Club WA are now seeking further funding to allow us to meet this demand. This includes the expansion of the program to reach more schools, as well as providing more diverse opportunities for all students involved such as work experience and site visits to local businesses.

We're delighted to have Programmed as a program partner in 2022, promoting the training and apprenticeships available for school leavers. This allowed us to link the Next Generation Schools Program with industry, providing a pathway for those students who are keen to pursue a career in the energy industry.

THE PROGRAM

It's been a busy year for our schools and mentors, with all four visits completed by November, plus the Student Expo Day held in November.

During the mentor visits students learnt about the impact the energy industry has on society, as well as how the industry is transitioning for a greener future. These visits include presentations and interactive activities. Students also had the opportunity to speak with panel mentors who shared their experiences in the industry and highlighted the various careers pathways available.

The Next Generation Schools Program is presented over 4 schools visits and some schools opting for an additional visit, covering the following topics:

MENTOR VISIT # 1 – INTRODUCTION TO THE ENERGY INDUSTRY

The first mentor session provides 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. The visit includes an interactive activity to further engage the students. The students thoroughly enjoyed the hands-on activity and getting to finish off the skittles at the end.

MENTOR VISIT # 2 – PROJECT LIFECYCLE AND CAREERS

The second visit focuses on the project lifecycle and the diverse range of careers required to complete the project. This visit showcases the diversity of our industry and the opportunities available to our next generation. This visit included a dreams and nightmares activity as well as a role play interview on their chosen career.

MENTOR VISIT # 3 – THE FUTURE OF ENERGY

The third visit focuses on Renewable energy developments, the future mix of energy, how all the different energy sources work and what the benefits are of each source. There was a Hydroelectric Power production activity at the end of the session.

MENTOR VISIT # 4 – PANEL MENTOR PRESENTATION

The fourth visit is a career panel, where 3-4 mentors from various backgrounds share their career journey in the energy industry so far. Classes are broken into groups and rotate between each mentor as they provide a 'speed networking style' show and tell of their careers. This provides more insight into the diverse range of careers available, as well as the various paths taken to achieve them.

MENTOR VISIT # 5 – WOODSIDE ENERGY TRANSITION GAME

The game 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 component of the 2022 program is the Student Expo Day. This was held at Edith Cowan University Joondalup on Friday 25th November and is the program highlight.

This year's expo was open to all students who showed a keen interest in the Energy Industry. We had nearly 300 students attend this year, which goes to show the impact the program is having on our next generation. The Expo Day gave students an insight into campus life and students were given a showcase of the amazing facilities ECU has to offer.

The Expo Day partners provided amazing interactive displays and simulations for the students to participate in a fun and interactive environment. This is designed to generate interest and facilitate the question and answer process between students and industry representatives.

On arrival to the Expo Day, students were asked to form into their teams of up to 6 students. They were then invited to visit the 20 interactive displays and quizzes that were setup around the campus, generating team points on completion of each activity. Teams were able to generate bonus points by completing the creative games and quizzes based on what they'd learnt at the mentor sessions throughout the year.

The day involved around 100 volunteers to run the exhibits and quizzes which was a huge success; thanks to all for their support. It was a fantastic day thanks to the support of all our exhibitors, sponsors, mentors, teachers and students.



Thank you to our Expo Day Partners who provided the following displays:

CSIRO – Virtual Reality Experience with Merchandise

ECU Joondalup – Exploring Robotics with a dynamic user-friendly humanoid robot “JD”

ERGT – PPE for students with a time trial for bonus points

INPEX – VR Goggle experience with video on loop

Jacob's – Informational booth on careers in the industry and pathways

Mitsui E&P – Informational booth on projects & Mitsui

Pipeline Actuation – Valve models for students to explore and presentation **Powering**

Careers – Ozobot coding of a “pig”

Qetra – Safety Shower assembly time trial

Schlumberger – Videos on SLB, Kerplunk linked to fluids in oil & gas, Skirmish game

SupplyAus Pty Ltd– PPE/Equipment to try on

TechnipFMC – Mimic a Subsea Development activity

Vertech/Geo Oceans – ROV Footage. Small ROV and Multi meter activity

Woodside – Boston Dynamics Robot

Woodside – VR Experience platform walk through

Worley – 3D Model review safety challenge (virtual walk through)

ECWA – Quizzes

ECWA – Exploration Game

**THANK YOU TO ALL OUR PROGRAM SUPPORTERS, MENTORS
AND VOLUNTEERS THROUGHOUT THE YEAR.**

2022 PROGRAM PRIZES

This year's competition was very close, but we're pleased to announce our winning schools for 2022:

1st Prize: Helicopter Underwater Escape Training proudly sponsored by ERGT



Congratulations to Swan Christian College

Participants will develop hands-on experience training in submerged helicopter simulators and learn essential sea survival techniques including life jack and life raft training. The training is designed to heighten safety procedures, danger awareness and operational standards for flights over or near water. Students who have participated in the HUET training say it's a 'once in a lifetime experience'

2nd Prize : Day Sail on the Leeuwin thanks to Elect



Congratulations to Harrisdale Senior High School

Experience the thrill and adrenalin of sailing on Australia's largest ocean-going sail training tall ship, the STS Leeuwin II. Students will help crew haul the lines, take the helm and even try some climbing aloft.

3rd Prize : Ropes Training proudly sponsored by Vertech Group



Congratulations to Australian Islamic College

Rope access is regarded as the safest and most dynamic method of working at heights. Here you'll 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's a fun day out and will give students an idea of the skills required on site.

THANK YOU TO OUR PROGRAM MENTORS

We're delighted to have the support from over 100 Mentors (Lead and Panel), who volunteer their time to mentor our students. Without their support, we're unable to continue developing and expanding the program throughout Western Australia.

Thank you to our Lead Mentors:

| | | | |
|--------------------------|------------------------------|-----------------------------|--------------------------------|
| <i>Ajit Pandey</i> | <i>Ebony Garlett</i> | <i>John Yeo</i> | <i>Rishi Singh</i> |
| <i>Alex Murphy</i> | <i>Emily Puzey</i> | <i>Kelvin Andrijich</i> | <i>Rui Fernandes</i> |
| <i>Alexandra Doumis</i> | <i>Emily Taylor</i> | <i>Laura Pecorari</i> | <i>Samantha Oler</i> |
| <i>Arielaine Guilles</i> | <i>Emma McKilligin</i> | <i>Mark Brandon</i> | <i>Scott Malatesta</i> |
| <i>Brendan Reid</i> | <i>Faisal Ur Rahman Awan</i> | <i>Mark Greene</i> | <i>Shane Kirkbride</i> |
| <i>Bukkie Orugun</i> | <i>Faraz Shamim</i> | <i>Matheesha Jayasekara</i> | <i>Shantaine Van Wieringen</i> |
| <i>Charlotte Stanley</i> | <i>Gail Milne</i> | <i>Mathew Baskerville</i> | <i>Sheree Martell</i> |
| <i>Chris Trowbridge</i> | <i>Haitham Sobhy Salah</i> | <i>Mike Gentry</i> | <i>Steve Barker</i> |
| <i>Cristy Little</i> | <i>Hamish Smith</i> | <i>Mohsen Farrokhrouz</i> | <i>Steve Fogarty</i> |
| <i>Dallas Dunlop</i> | <i>Ian Hart</i> | <i>Preeti Briel</i> | <i>Virginia Reyes</i> |
| <i>Dann Marian</i> | <i>Jason McDonald</i> | <i>Prinita Ruban</i> | <i>Yolanda Gauld</i> |
| <i>Dario Bongiovanni</i> | <i>Joe Collins</i> | <i>Richard Buchanan</i> | <i>Dawn Banner</i> |
| <i>Richard Stocker</i> | <i>John McKelvie</i> | | |

We will begin taking expressions of interest for Lead and Panel Mentors for the 2023 program from January 2023. We're unable to run this program without the incredible support we receive from industry. If you would like to learn more than please contact the office today.

NEW OPPORTUNITIES

In 2023 we will continue to extend our reach and will invite an additional regional school to take part in the Next Generation 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 made to the 2022 program and we hope to develop the program further based on feedback received from students, teachers and mentors. The program content will be updated to progress with the ever-changing environment and we aim to include more interactive and creative thinking activities.

HOW TO BE INVOLVED...

The Next Generation 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 way of sponsorship, mentoring, interactive displays or event volunteering to assist in the coordination of the program itself.

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 a great 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 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 Program Sponsors for 2022



BECOME A MENTOR

Volunteer your time and visit with students and 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.

PROVIDE DISPLAYS AND PRIZES FOR THE STUDENT EXPO DAY

The finale of the program gives students an opportunity to gain further insight by exploring interactive displays and receiving a take home gift pack with corporate goodies. If you'd like to showcase your products/services, 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 a group of excellent industry representatives who provided 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 who share their skills and experiences with the students. This is one of the program highlights.

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

