



ENERGY CLUB WA NEXT GENERATION ENERGY PROGRAM

Program Launch

2026



Energy is for Everyone!

*Empowering WA students to understand, innovate,
and shape the energy systems of tomorrow.*



ENERGY CLUB WA



**NEXT GENERATION
ENERGY PROGRAM**

“Energy is for Everyone”

Vision

To inspire the next generation to explore, understand, and shape the energy systems that power our lives and communities.

Mission

We connect young Western Australians with energy. Inspiring curiosity, inclusion, and opportunity through hands-on learning, storytelling, and industry engagement across science, trades, and technology.



Our STREAM Methodology

S: Science

T: Trades & Technology

R: Recruitment & Remuneration

E: Engineering

A: Arts & AI

M: Mathematics & Media

“Because shaping the future of energy takes more than science – it takes skills, creativity, and connection.”

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To make energy accessible and relevant for all, the program extends beyond traditional STEM. We connect science with real-world trades, innovation with creativity, and education with opportunity.

This holistic approach recognises that tomorrow's energy sector will need technicians, storytellers, data analysts, engineers, and designers; all contributing to a more sustainable and inclusive future.

The STREAM Framework represents the full ecosystem of skills that power WA's energy future; from hands-on trades to cutting-edge innovation and communication.

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SCHOOL VISIT 1

Energy Literacy Core

Purpose: To give students a clear, foundational understanding of energy – what it is, where it comes from, how it powers WA, and why it matters for the future.

What is Energy?

(Simple → Complex)

- Energy forms (electrical, mechanical, chemical, heat).
- Everyday examples: homes, devices, hospitals, transport, food.
- How energy moves: generation → transmission → distribution → use.

WA's Energy Landscape

- How WA generates energy today (high-level, accessible).
- Key industries: power systems, LNG, renewables, storage.
- What's changing: electrification, big batteries, hydrogen, microgrids.

Energy Literacy Skills

- Understanding
 - “base load”
 - “transition”
 - “capacity”
 - “demand”
- Why energy matters for safety, cost of living, community, jobs.

SCHOOL VISIT 2

Renewable & Traditional Energies

Purpose: To give students a balanced, realistic understanding of how renewables and traditional energy systems coexist, transition together, and enable the jobs of the future.

Traditional Energy

- Gas, coal, diesel, LNG – why they are still critical today.
- How traditional systems are modernising and reducing emissions (CCS).
- Hybrid solutions (diesel + solar; gas + battery).

Renewables Overview

- Solar, wind, hydro, green hydrogen.
- Strengths, limitations, and innovation trends.
- WA VS Global examples: Mid West wind, Pilbara solar, hydrogen hubs.

The Energy Transition

- What transition actually means (not shutting down but evolving).
- Why WA needs both systems for reliability + sustainability.
- How storage, AI, and engineering are bridging gaps.

STREAM Connection

- Trades (building and maintaining systems)
- Engineering (designing hybrid & renewable solutions)
- AI & Data (optimising systems)
- Media/Arts (communicating transition)

SCHOOL VISIT 3

“How energy connects to country, community & responsibility”

Purpose: To help students understand that energy systems are designed, built, and operated in real places, and that location, land, water, and community context influence how projects are planned and delivered.

Energy Over Time:

- Long-standing principles of balance, sustainability, & resource management.
- Recognition that cultural knowledge contributes to how energy systems are designed and managed today.

Energy & Community Impact

How energy affects daily life in regional WA:

- cost of living
- infrastructure
- access in regional and remote areas

Why responsible planning considers land, water, and long-term community needs.

Jobs and training opportunities.

Science: Caring for Country and ecological knowledge

Trades: Solar installers, technicians, maintenance

Recruitment: Local workforce development

Engineering: Designing systems respectfully on Country

Arts/AI: Sharing stories, digital storytelling, mapping

Maths/Media: Data, communication, community engagement.

Interactive Activity – “Powering Everyday Life”

Energy Futures Forum

To expose students to real careers, pathways, skills, and opportunities within WA's energy sector in a way that is interactive, scalable, inclusive, and memorable.

KEYNOTE and WELCOME

SKILLS DISCOVERY WORKSHOPS

- Communication and Presentation Skills
- Teamwork and Collaboration Challenge
- Problem-Solving Scenario
- Work Readiness: CV, Pathways and Interviews
- Strengths Finder Quick Quiz
- Recruitment Reality Corner

INDUSTRY ROUND TABLES

Students learn:

- What entry pathways exist
- What early career employees actually do
- What recruiters look for
- Real day-to-day realities
- Salary ranges
- What makes a standout applicant

This creates high-touch engagement without expo-style overwhelm.

CAREERS PANEL: "ASK US ANYTHING!"

SHOWCASE / REFLECTION SESSION

Energy Innovation Expo

To immerse students in WA's energy sector through a large-scale, interactive campus experience that connects education, industry, and community in a way that is engaging, inspiring, and impactful.

STUDENT EXPO DAY - Edith Cowan University (ECU), Joondalup

CAMPUS IMMERSION EXPERIENCE

Students experience:

- University campus life firsthand
- World-class ECU facilities
- A real tertiary learning environment

INTERACTIVE INDUSTRY EXHIBITS & SIMULATIONS

Students engage with:

- Hands-on displays and demonstrations.
- Interactive simulations linked to energy careers.
- Quizzes and challenges led by industry volunteers.

COMMUNITY & INDUSTRY ENGAGEMENT

- Approx. 300 students attend
- High-energy, high-impact environment without classroom constraints.
- 100 industry volunteers support the day.

This creates a high-impact, large-scale experience that brings the energy sector to life while strengthening pathways between students, industry, and tertiary education.

INDUSTRY & STUDENT CONNECTIONS

Students learn:

- How industry organisations operate
- What energy careers look like in practice
- How industry connects with the local community.
- How to ask meaningful questions of professionals.

PROGRAM CULMINATION & CELEBRATION

- Invitation-only for students who complete four school visits.
- Recognises sustained interest and engagement.
- A standout highlight of the program year



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Thank You

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