EnergyCo

NSW GOVERNMENT

# Your future in renewable energy

## Student Career Snapshot

Exploring jobs, training and career pathways across renewable energy generation, storage and transmission for NSW School Students.

## NSW is building the energy system of the future

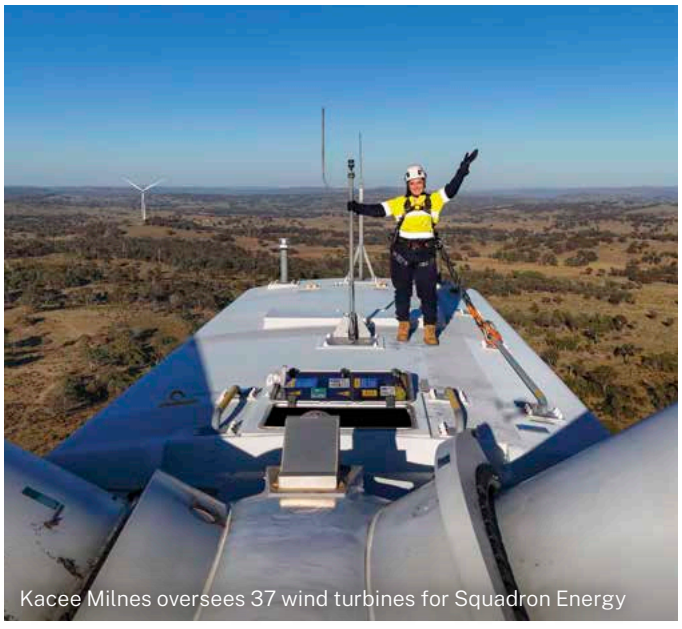
NSW is transforming its electricity system to deliver reliable, affordable and clean energy for the future.

Renewable Energy Zones are being developed across the state, connecting new wind, solar and energy storage projects to homes and businesses. As this new infrastructure is planned, built and operated, it is creating opportunities for people with diverse skills to help power NSW for decades to come.

### Discover careers helping power NSW's future

Renewable energy projects are creating opportunities for people to help design, build, operate and maintain the infrastructure that will power NSW for decades to come.

Renewable energy needs all kinds of people. You could design a wind farm, build a transmission line, protect native wildlife, operate a battery, manage a construction project, or use your skills in business, technology, safety or communications.



Kacee Milnes oversees 37 wind turbines for Squadron Energy

There is no single pathway into renewable energy. Powering the future takes more than one type of worker. Whether through an apprenticeship, TAFE, university or on-the-job training, renewable energy projects need people with different skills, interests and career goals.

**Key statistics:**

## 9,000+ jobs

At peak construction.

## 4,450+ jobs

Ongoing operations and maintenance jobs.

## Exploring opportunities across New South Wales

The NSW Government is changing the way we generate and deliver electricity through renewable energy generation, storage and transmission infrastructure.

Renewable Energy Zones, transmission projects and energy storage developments are being delivered across regional NSW, creating opportunities for workers with a diverse range of skills and interests.

### Top 5 Renewable Energy Occupations across New South Wales

Based on projected workforce demand associated with NSW's renewable energy, storage and transmission project pipeline.

| Occupation | What could you do? |
|---|---|
| 1. Electrician | Connect and maintain the power |
| 2. Construction Manager | Coordinate the build |
| 3. Construction Labourer | Help build the project |
| 4. Engineer | Design and solve problems |
| 5. Mechanical Trades Worker | Build equipment and run it |

## Renewable energy projects need more than one type of worker

Renewable energy projects need people across technical, trade, engineering, environmental, safety, project delivery and business functions.

Opportunities exist at every stage of a project's lifecycle, from early planning and approvals through to construction and long-term operations and maintenance.



### Design it

- Engineers
- Designers
- Planners
- Geospatial specialists



### Protect it

- Environmental planners
- Environmental scientists
- Ecologists
- Cultural heritage specialists



### Build it

- Electricians
- Mechanical trades
- Construction workers



### Manage it

- Project managers
- Business managers
- Procurement
- Administration



### Work with people

- Community engagement
- Communications
- Human resources



### Run it

- Operators
- Technicians
- Maintenance workers



Lucinda Shilcock, Women in Trades Manager, TAFE NSW

# Your pathway starts here

## Years 9–10: Explore

- Find careers that interest you
- Try STEM, technology and practical subjects
- Talk to your careers adviser
- Participate in work experience and industry visits

## Years 10–12: Build skills

- Explore VET and TAFE
- Complete TAFE microskills and microcredentials
- Choose to complete a School Based Apprenticeships and Traineeships (SBAT)
- Take part in industry programs
- Develop skills through school subjects and extracurricular activities

## Year 12 and beyond: Choose your pathway

- Apprenticeship/Traineeships
- TAFE
- University
- Direct employment
- Further training

# What support programs and initiatives are available?

## Explore careers

### Launch Your Career in Renewable Energy

NSW Department of Education program featuring career information, industry webinars, videos and study pathways focused on renewable energy careers.

### NSW Renewable Energy Jobs Guide

Provides detailed information about the occupations, skills and pathways

### Careers for Net Zero

Explore occupations contributing to Australia's transition to net zero emissions.

## Explore training

### TAFE NSW Renewable Energy Career Guide

Information on training pathways supporting renewable energy generation, battery storage and transmission projects.

### Skills NSW

Information on apprenticeships, traineeships and vocational education opportunities.

### TAFE NSW Renewable Energy microskills

TAFE NSW microskills for the various industries across renewable energy generation sector, including Wind, Solar, Hydro, Grid Scale Battery and Virtual Power Plants. Free for NSW high school students.

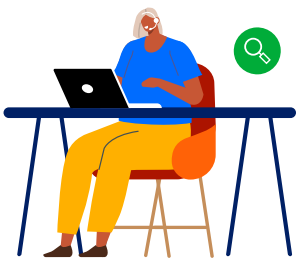
## Meet industry

### Regional Industry Education Partnerships (RIEP)

Connects schools and students with local industries and career opportunities.

### Educational Pathways Program

Introduces NSW public high schools students to a range of vocational training and employment pathways.



# Discuss pathways into renewable energy careers with your careers adviser or teacher

The future energy workforce is being built today.
Explore the opportunities and discover where your career could take you.

Explore the NSW Renewable Energy Jobs Guide. It contains detailed information on more than 30 occupations supporting renewable energy generation, storage and transmission projects across NSW.

- **Find a career: Explore occupations and what people in those roles do**
- **Find a pathway: See the qualifications, training and study options that can lead there**
- **See where it can take you: Explore career progression and opportunities across NSW**

Scan the QR code to access the full guide: energyco.nsw.gov.au/jobs-guide

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