

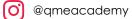
2019



### OUTCOMES REPORT

# Millmerran Power







"It was a very enjoyable interactive event and the three representatives from industry were COOL."

> - Student at STEM for Schoolkids/Tookit for Schoolkids event

### "I think the hands on opportunities for our students are excellent."

- Teacher at STEM for Schoolkids/Tookit for Schoolkids event

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### Background

The Millmerran Power/QMEA program aims to excite teachers and their students in the learning and teaching of STEM, and VET subjects, and placing this in the context of resources sector and other related careers.

The program, which represents an investment of \$35,000 complements Millmerran Power's social license to operate objectives, including contributing positively to the quality of life in the communities, societies and cultures where it operates.

The QMEA appreciates Millmerran Power's support for this important program.

## 2019 Outcomes

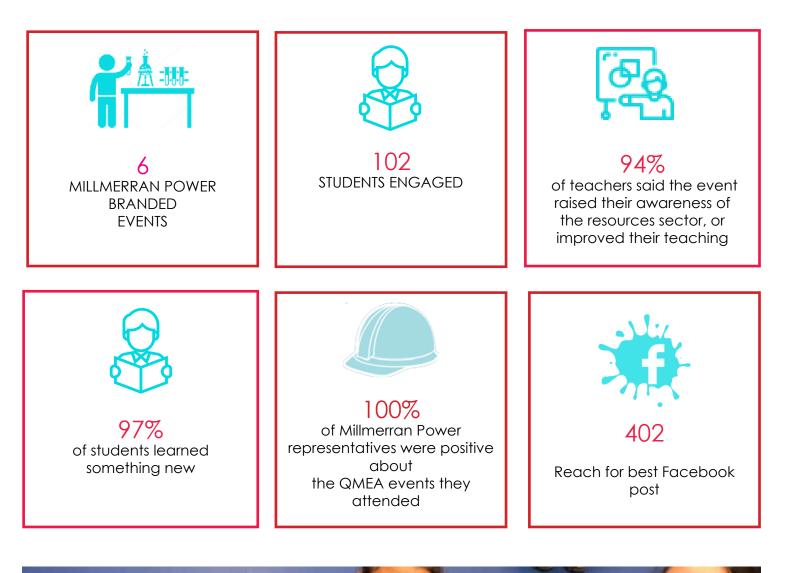
During 2019, Millmerran Power was engaged in six Millmerran Power branded QMEA events, involving six Millmerran Power representatives, 102 students and 56 teachers.

Millmerran Power was quoted in two bespoke Millmerran Power QMEA media releases resulting in one mainstream media item. In social media, the best rating Facebook post reaching 402 people.

"An industry initiative well worth the effort to develop the next generation"

- Millmerran Power representative at STEM for Schoolkids/Tookit for Schoolkids event

# QMEA/Millmerran Power 2019 outcomes at a glance





## **QUANTITATIVE RESULTS**

STUDENTS*	% yes
Statement	% yes
The event was enjoyable	95
The event helped me learn something new	97
The industry representatives at this event were engaging and helpful	98
This event has shown me how school subjects apply to the real world	90
This event has increased my awareness of the importance of problem solving and teamwork skills within the resources sector	97
TEACHERS**	
Statement	% yes
Did this event meet your expectations?	99
Did the event raise your awareness of the minerals and energy sector	92
Did this activity improve your teaching of minerals and energy-related topics within your subject areas?	94
INDUSTRY**	
Statement	% yes
Was this event worthwhile?	100
Did this event meet your expectations?	100
Would your company support this event in the future?	100

\* from surveys of students at Millmerran-sponsored events. \*\* Overall results of surveys from QMEA 2019 program

"The program offered students a good exposure to fundamental electrical and mechanical principles used in industry." Millmerran Power representative

### **STUDENTS**

- I liked the range of activities, which were fun and challenging.
- I enjoyed the practical side of this program and the activities were interesting.
- It was a very enjoyable interactive event and the three representatives from industry were COOL.
- The best part was working with other students and see how they do the tasks.
- I liked the building one at the end of the day. We didn't win, but our team had heaps of good ideas and we didn't need any expert help.
- This is a good way to learn.
- Today was very fun and made me think a lot.

### TEACHERS

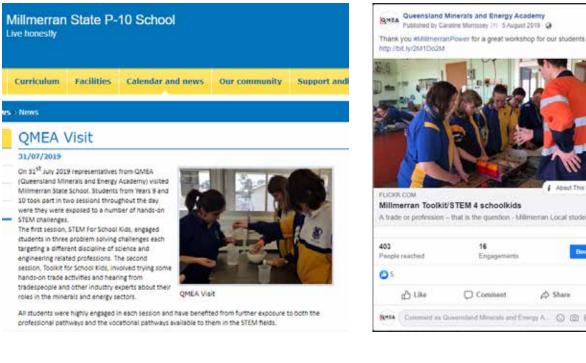
 I think the hands-on opportunities for our students are excellent.

### **COMPANY REPRESENTATIVES**

- The program offered students a good exposure to fundamental electrical and mechanical principles used in industry.
- An industry initiative well worth the effort to develop the next generation.
- I really enjoyed being able to work with the year 9 and 10 students and the hands on activities.
- The students were engaged and having fun while learning.
- Robots were great!

## **IN THE MEDIA**

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Millmerran Toolkit/STEM 4 schoolkids A trade or p that is the q Milmerran Local students have 403 16 Boost Post People reached Engage 05 Tshare D Like Comment A Share ----🗛 🖬 Comment as Queenstand Minerats and Energy A. 💿 🔘 🕑 😰

SECTION: GENERAL NEWS ARTICLE TYPE: NEWS ITEM AUDIENCE : 14,016 PRINTED SIZE: 311.00cm<sup>a</sup> REGION: QLD MARKET: Australia ASR: AUD 540 PAGE: 17 WORDS: 170 ITEM ID: 1156466019 09 AUG. 2019











STEM JOBS: Millmerran P-10 State School str nt from left) Em na MacKenzle and Therese Gu

# Look into STEM jobs

MILLMERRAN: Students have a better understanding of their career preferences af-ter taking part in science technology engineering and maths activities run by the Millmerran Power Station and the Queensland Resources Council. The students were men-

professionals from Millmer-ran Power. The students started the day in the work-shop before trying their hand in the science lab in the Queensland Minerals and Energy Academy event. Millmerran Power's plant manager Chris Seydel said

tored by trades people and

some students had a limited view of the variety of roles available in the resources sec-

tor. "Our staff really enjoy talk-ing to the students and helping them to imagine their fu-tures," he said.

The aim of the QMEA workshop is to help schools

bring STEM alive in their dassrooms with interactive workshops aligned to the cur-

riculum. The QMEA is a partnership between the Queensland Resources Council and the Queensland Government under its Gateway to Industry Schools program.

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## **MEDIA RELEASES**



### **QRC Media Release**

17 September 2019

#### Teachers learn what's watt to take ohm to students

It's often a powerplay in the classroom between students and teachers, but local teachers will be ahead of the game on the topic of electricity generation after today's tour of the Millmerran Power Station.

Teachers from Millmerran State School P-10 and Pittsworth State High School will speak to key Intergen personnel to understand the power generation process.

They'll also gain an understanding of the careers available in the sector to share this information with their students.

"We're really keen for local students to consider careers in power generation, and to be able to stay in, or return to the local community following further education by taking up careers with us," said Intergen Plant Manager Chris Seydel.

"The tour will also help the teachers understand more about energy production to take back to their classrooms," he said.

"For example, it wouldn't be widely known that Millmerran uses a supercritical oncethrough boiler, which produces lower greenhouse gas emissions than conventional coal-fired types.

"It's one of the most energy efficient coal-fired projects in Australia, with low nitrogenoxide burners that cut NOx emissions by 50 to 70 percent, and our cooling tower consumes 90 percent less water than conventional coal fired-power stations."

"Our teachers really appreciate these professional development opportunities, which enable them to enhance their classroom teaching with energy supply, generation and use an important part of our curriculum," said Jenny Kent, Principal, Millmerran State School.

Meanwhile, students and teachers at Pittsworth State High School will learn how to program a LEGO EV3 robot from highly respected digital technologies educator Dr It's the first time Damien has worked with the school.

The event has been facilitated by the Queensland Minerals and Energy Academy (QMEA), a partnership between the Queensland Resources Council (QRC) and the Queensland Government under its Gateway to Industry Schools program. It has 60 schools throughout Queensland.

QRC is the peak representative body for Queensland 's resource sector. The Queensland resources sector provides one in every five dollars in the Queensland economy, sustains one in eight Queensland jobs, and supports more than 15,400 businesses and community organisations across the State, all from 0.1 percent of Queensland's land mass.

(ends)

Media contact: Anthony Donaghy 0412 450 360 Photos available upon request

## **MEDIA RELEASES**



### QRC Media Release

1 August 2019

#### A trade or profession – that is the question - Millmerran

Click here a photo https://www.qrc.org.au/wpcontent/uploads/2019/07/mmp.jpg

Local students have a better understanding of their career preferences after taking part in hands-on activities based on trades and science technology engineering and maths (STEM) careers in Millmerran yesterday.

Mentored by trades people and professionals from Millmerran Power, the students started the day in the workshop before trying their hand in the science lab in the Queensland Minerals and Energy Academy (QMEA) event.

"It's often a daunting task for students to choose their subjects for senior school but having a clearer idea helps with this process," said Millmerran SS Principal Jenny Kent.

"It's really valuable for students to see what's involved in the different careers first hand, and to talk to industry people about their jobs," she said.

Millmerran Power's Plant Manager Chris Seydel said some students had a limited view of the variety of roles available in the resources sector.

"Our staff really enjoy talking to the students and helping them to imagine their futures," he said.

The aim of the QMEA workshop is to help schools bring STEM alive in their classrooms with interactive workshops aligned to the curriculum.

The QMEA is a partnership between the Queensland Resources Council (QRC) and the Queensland Government under its Gateway to Industry Schools program. It has 60 schools throughout Queensland.

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Media contact: Anthony Donaghy 0412 450 360

# THANK YOU

## THANK YOU TO THE FOLLOWING MILLMERRAN POWER STAFF FOR YOUR DIRECT PARTICIPATION IN THE QMEA ACTIVITIES IN 2019

- Neil Burtenshaw
- Letician Tolson
- Dom Brigg
- Malcolm Hands
- Adam Prust
- Ross Kohn
- Matt Brierley

The QMEA, its schools and teachers thank Millmerran Power for making these events possible and look forward to an ongoing partnership with you into the future.





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Careers Expo		5 August	
Pittsworth	Working with the Vocational Education Co-ordinator (Maree Homes) at Pittsworth SHS, QMEA brokered the involvement of Millmerran Power in the Careers Expo event held at Pittsworth		The representatives from Millmerran Power that attended: Kevin Gill – engineer Chris Jensen – Boilermaker/Fitter
Teacher Professional Development Millmerran Power Station Tour	QMEA worked with both schools to organise a teacher professional development tour of Millmerran Power Station.	17 September 2019	3 teachers from Pittsworth SHS 5 teachers from Millmerran SS Tour ran towards the end of Term 3 2019 for teachers from Pittsworth SHS and Millmerran SS P-10. Feedback from the schools suggested the activity was very worthwhile
Year 9 Year 9	Beakers, bors, build combines a number of challenge-based activities centred on the discipline of science, technology, engineering and mathematics. The practical tasks are designed for Year 9 students who work in teams to problem solve, plan, diagnose, analyse and construct. Each task is designed to encourage students to pursue further studies in STEM in preparation for a university pathway. Challenges are based on chemical processing, geology, environmental practices and robotics and automation. All challenges have been designed in conjunction with industry representatives.	30 October 2019	52 students from Pritsworth and Millmerran attended BBB. Great event with fantastic industry support (three reps) <ul> <li>A Adam Prust</li> <li>Ross Kohm</li> <li>Ross Ross Ross Kohm</li> <li>Ross Ross Ross Ross Ross Ross Ross Ross</li></ul>
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**Prepared for** Millmerran Power

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