

PBA NEWS

PBA News Issue #17 December 2020

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Proud to be Ambassadors for the New Zealand Story

Are we proud to be Kiwi? You bet we are! And we hope you're proud to be utilising our services and supporting a local Kiwi business. It's a great story to share all round including with your own customers. So when PBA received the FernMark Certificate of Recognition, reflecting our organisation's substantial level of New Zealand ownership, governance and employee contribution, we were pretty chuffed. In meeting the criteria PBA demonstrated that our products are made and designed in New Zealand, which is why the Government is happy for our products to represent New Zealand around the world. With consumer trust in New Zealand riding high internationally, there's

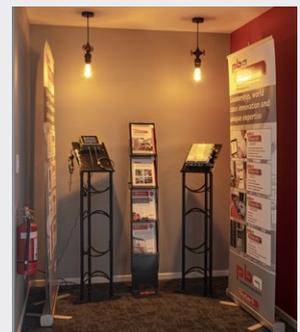


never been a better time to tell your customers that you use PBA, a company that carries the FernMark Licence logo.

Expansion for PBA Christchurch

2020 has been an interesting year. For PBA it's meant growth in customer demand. This has seen us recruiting more staff to keep up and streamlining parts of the business, including the consolidation of the PBA research and development group to the Christchurch site. So it's no surprise we've needed to expand and have added 900m² of mixed workshop and office space. These additional buildings have enabled the expansion of specialist work areas along with providing enlarged testing and manufacturing spaces.

PBA technical director John Pringle says that a key aspect of the development was to provide a state-of-the-art working environment for all staff, supporting comfort and productivity. As with all PBA workshops, the Christchurch site has green credentials in line with organisational sustainability commitments. This is reflected in the number of EV charging stations in support of our growing EV fleet, along with the addition of an extra 10kW of solar PV generation.



COVID-19 Restrictions See PBA Australia Team Take Unique Approach

When the PBA Australia team received a critical works request in the middle of the COVID-19 restrictions, requiring mobilisation to a remote worksite 10km across the NSW State border from Victoria, some quick and effective planning was needed to manage the intricacies of interstate travel restrictions. With a requirement to urgently test five 5MVA transformers, integral to the operation of a solar farm, the logistics of getting to site with a NSW/Victoria border closure required an innovative approach from the Melbourne based team. This saw a field team of two technicians fly from Melbourne to Sydney (the only acceptable way to enter NSW from Victoria at the time) and complete a

four hour COVID-19 travel interview at Sydney airport before they could commence the six hour travel via rental vehicle to site. Team members arranged the freight of vehicles and equipment from PBA Melbourne across the state border to Albury, NSW, to support the field team. A truly collaborative PBA approach to getting the job done! Once on site PBA worked with the transformers, then PBA technical specialist Deepal Munasinghe confirmed all five transformers were good for operations and could be handed back to the customer. End result – a job completed efficiently, on time, safely and another happy customer added to our growing list.



Tricky Design and Build No Problem for PBA Cable Jointing Team

Never let it be said that the PBA cable jointing team can't handle a challenge! Recently the team demonstrated its skill and flexibility, completing and commissioning a full turnkey 66kV Overhead to Underground (OHUG) conversion project at a switchyard located in Gisborne, New Zealand.

The project brief called for PBA to manage the design and build process and then progress to install, test and commission works, which included undergrounding of the existing overhead 50kV GXP feeder between two worksites that were 150 metres apart. Over a 12-day period the team repositioned key assets and hauled in new 66kV cables between the two sites before moving on to terminating the cable system. The last two days of activity consisted of testing and preparations for livening. With the entire project commissioned by the end of day twelve the customer was more than happy with the successful delivery of the project. Well-done team!



Product Innovation

EcoGas|600 E

Best practice SF₆ end of life disposal service

SF₆ End of Life Disposal Service



FEATURES

- Best practice disposal methodology
- Cost-effective
- Customer tracking portal
- On-demand reporting
- Data integration with the EcoGas600D SF₆ management and emissions reporting database allowing Aggregate Loss at Emission Source reporting (Tier 3).

The disposal of SF₆ assets requires special care to ensure that potentially harmful decomposition products, built up over the life of the asset, are disposed of in a safe and environmentally responsible manner meeting regulatory requirements. Additionally SF₆ gas, as a regulated synthetic greenhouse gas, has specific regulatory requirements, covering its disposal, record keeping and reporting, that asset owners are required to report and maintain. The

EcoGas600E platform provides a unique and cost-effective disposal solution, providing end-to-end management, utilising the cloud-based customer portal where users can request, monitor and report the disposal of SF₆ assets and gas. PBA disposal activity is available either as an on-site service or accessible through one of our fully equipped regional workshops.

Device Status	Number of Devices
Awaiting Pickup	8
Ready for Disposal	6
Processed	32
Scraped	15

Category	Value
Gas Recovered	44.87 kgs SF ₆ gas
CO ₂ Equivalent	1023.036 tonnes CO ₂ -e
Carbon Credits @ \$25/tonne CO ₂	\$25,576
Scrap Value (received to date)	\$1,247
TOTAL:	\$26,822

Information Entered By:	John
Transaction Date:	2020-08-13
Operator's Name:	JH
Cylinder:	PBA2123
Transaction Description:	Degas Device for Disposal
Last Finish Wt:	77.20 kg
Start Wt:	77.20 kg
Delta:	0.00 kg
Device Disposal Request ID:	DDR 50
Device Serial Num:	T07-0299
Device Asset Type:	Overhead Switch
Device Asset Num:	tba
Device Model:	TBA
Cylinder Dew Pt. prior:	
Cylinder Purity prior:	
Ambient Temp:	15.00 °C
Equip. Press. prior:	1089.00 mbar
Equip. Press. after:	10.00 mbar
Cylinder Dew Pt. after:	
Cylinder Purity after:	
Finish Wt:	77.65 kg
Gas Extracted:	0.45 kg
Gas Contaminated?:	no
SO ₂ :	
Purchase Order:	
Transaction Desc Notes:	

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PBA Welcomes

Introducing Our PBA Board Members

Tony Armstrong - chairman

Tony's extensive experience in the electricity industry is invaluable as he chairs the board of PBA providing directorship support to a number of companies in the electricity industry in New Zealand and Australia. Prior to this Tony founded an engineering consultancy that provided specialist services to the electricity sector globally and brings expertise spanning High Voltage AC and DC generation and transmission assets along with associated control systems.



Robyn Armstrong - director

Robyn has been at PBA since its inception and offers experience in understanding the challenges of global companies and the coordination of teams in various regions across the world. Her impressive background includes leading teams in administration, finance, quality and systems and she has held a number of board positions over the years.

Rob Silcock - CEO, director

Rob has a remarkable 30 years plus experience in the electricity industry in leadership and governance roles, both within New Zealand and overseas. During this time he has held a number of high-level positions including senior roles with multi-national engineering companies.

John Pringle - founder, director, technical manager

With over 30 years experience in the electrical power industry, John is a technology specialist in high voltage transformers and SF6 circuit breakers. John founded Pringle Beleski and Associates (PBA) with Vern Beleski in 2008.

Vern Beleski - founder, director, general manager (nz)

Vern has over 35 years expertise in the high voltage electrical industry. His specialties are management of large contracts - both maintenance and capital projects, further adding to the considerable depth of experience in the PBA leadership team.

Investing In the Future



Aidan Campbell

Aidan joins PBA Australia as an experienced electrician with a diverse background in industrial, mining and LNG projects. Aidan is looking to further develop his skills and knowledge in the field of high voltage power systems/generation. Outside of work Aidan likes to keep active training at the gym, running and surfing on the weekends.



Deepal Munasinghe

PBA Australia is excited to have Deepal Munasinghe join the team. Deepal's experience and wealth of knowledge in primary testing of power transformers will further support our team of experts. Deepal is also an A-grade electrician and looks forward to further extending his skills in other areas. Deepal enjoys archery, cricket and spending time on family holidays.



Reto Schori

Currently pursuing a bachelor's degree in computer engineering, Reto has joined the PBA research and development team in Christchurch as an embedded systems designer for the 2020/2021-summer period. Working on PBA's EcoGas600 and OilWatch600 systems, Reto is gaining valuable industry experience in his area of study. He enjoys the challenge and learning opportunities that the work provides. In his free time, Reto enjoys playing tennis, basketball and working on personal home automation projects.



Michael Valerio

Also joining the PBA Australia team is Michael Valerio. Mike brings to PBA extensive on-site experience in all aspects of installation, commissioning and maintenance of transformers and their associated equipment. An important part of Mike's role will be training other team members in all areas of transformers. Outside of working hours, Mike enjoys tinkering in the shed and spending time with his wife.
