



Introductory information for the  
**Share Purchase Plan**

**Investor Presentation**

25 November 2019

ASX: **PWN**

FSE: 4IP

[parkwayminerals.com.au](http://parkwayminerals.com.au)

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## DINNER HILL RESOURCE STATEMENT

*Information in the presentation that relates to the Mineral Resource estimate for Dinner Hill is fully described in the ASX release of 26 September 2017. The Company is not aware of any new information or data that materially affects the information included in this presentation. All material assumptions and technical parameters underpinning the Mineral Resource estimates and Exploration Target in this presentation continue to apply and have not materially changed. The K-Max Scoping Study referred to in this presentation was fully described in the ASX release of 10 January 2013, while the Phosphate Scoping Study was released on 19 September 2013 and updated on 30 September 2015. Both are based on low-level technical and economic assessments and are insufficient to support an estimation of Ore Reserves, provide assurance of an economic development case at this stage or provide certainty that the conclusions of the Scoping Study will be realised. All material assumptions and technical parameters used in the Scoping Study and included in this presentation continue to apply and have not materially changed. Parkway Minerals has concluded that it has a reasonable basis for including the forward-looking statements provided in this presentation.*

### Competent persons' statements

*The information in this report that relates to the estimation of Exploration Targets and Mineral Resources is based on and fairly represents information and supporting documentation prepared by J.J.G. Doepel, a member of the Australasian Institute of Mining and Metallurgy. Mr Doepel, principal geologist of the independent consultancy Continental Resource Management Pty Ltd, has sufficient experience relevant to the style of mineralisation and type of deposit under consideration. He is qualified as a Competent Person, as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. This report is issued with Mr Doepel's consent as to the form and context in which the Mineral Resource appears. The information in this report that relates to reporting of Exploration Results is based on and fairly represents information and supporting documentation prepared by James Guy, a member of the Australian Institute of Mining and Metallurgy. Mr Guy is a consultant to the mineral industry and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration. He is qualified as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Guy consents to the inclusion in this report of the matters based on information in the form and context in which it appears. The metallurgical information in this report is based on and fairly represents information and supporting documentation compiled by Gary Johnson, a Member of the Australasian Institute of Mining and Metallurgy. Mr Johnson has sufficient experience relevant to the activity being undertaken to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Johnson is managing director of Strategic Metallurgy Pty Ltd. This report is issued with Mr Johnson's consent as to the form and context in which the results appear.*

## KARINGA LAKES POTASH PROJECT (KLPP) – RESOURCE DESCRIPTION

### RESOURCE STATUS

On 20 February 2014, Verdant Minerals reported an in-situ SOP resource (in accordance with the 2012 JORC Code) for the Karinga Lakes Potash Project (KLPP). The 2014 resource is calculated using total porosity (total brine content) of the host rock. Subsequent to this resource estimate, in April 2019, the reporting requirements for brine resources under JORC have been updated, with a new set of requirements, which have been outlined in an AMEC (Association of Mining and Exploration Companies) publication titled, *Guidelines for Resource and Reserve Estimation of Brines*.

The updated brine reporting guidelines can be downloaded from the AMEC website:

[https://www.amec.org.au/Public/Media/AMEC\\_Publications/AMEC\\_Brine\\_Guidelines.aspx](https://www.amec.org.au/Public/Media/AMEC_Publications/AMEC_Brine_Guidelines.aspx)

The guidelines recommend the use of drainable porosity of the host rock (brine content that can be drained by gravity). The 2014 resource is not consistent with the new guidelines in this regard. Revision of the resource estimate to be consistent with the guidelines will result in a reduction of the total reported resource. The 2014 resource estimate is comparable to other brine potash resources reported in accordance with the JORC Code 2012, that are calculated based on total porosity. During the transition to the new guidelines it has been common for companies to report both estimates calculated on total porosity and calculated on Drainable Porosity.

### ADDITIONAL INFORMATION

Detailed hydrogeological studies at the KLPP have been based on significant datasets including drill hole, trench, production tests and monitoring data over several years provide confidence in the project. In collaboration with CPC's joint venture partner Verdant Minerals, the KLPP joint venture will determine an appropriate work program, (as part of a feasibility study) to revise the resource estimate for the KLPP. As a result, investors are cautioned not to make investment decisions based on the presently reported and publicly available mineral resource for the KLPP.

# Corporate Snapshot

As at 22 November 2019

Capital Structure	Current
Ordinary Shares (PWN) on issue	1,220,515,079
12-month Trading Range	\$0.003 - \$0.010
<b>Market Capitalisation (at \$0.008)</b>	<b>\$9.8 million</b>
Partly Paid Securities (PWPCA)	246,600,643
Unlisted Options (\$0.02, 17 Aug 2020)	55,126,000

Major Shareholders	Percentage
Lions Bay Capital (CPC vendor)	18.4%
Activated Logic (CPC vendor, ED)	17.1%
Citicorp Nominees (HNW)	4.3%
Horn Resources (CFO)	3.1%
Rhodes Mining (CPC vendor)	2.8%
Patrick McManus (MD)	2.6%
Other Top 20	19.5%
<b>Top 20</b>	<b>67.8%</b>

Marketable Securities	Value (\$A)
34,300,000 units ASX:DAV @ \$0.045	\$1.55 million
7,142,850 units ASX: DAVO \$0.005	\$0.04 million
<b>Total</b>	<b>~\$1.6 million</b>

[Technology](#) | [Projects](#)

## Parkway Minerals (PWN) – 3 Year Share Price Chart



## Directors & Management

**Adrian Griffin** – Non-Executive Chairman

**Patrick McManus** – Managing Director

**Bahay Ozcakmak** – Executive Director

**Patrick Power** – Non-Executive Director

**Robert van der Laan** – Chief Financial Officer

**Amanda Wilton-Heald** – Company Secretary

## Stock Symbols



ASX:  
**PWN**



Frankfurt:  
**4IP**

# Capital Raising & Board Changes

## Capital Raising

In order to fund a range of priority activities relating to the **commercialisation of the aMES™ technology**, Parkway Minerals is seeking to raise up to \$849,000.

- \$189,000, capital raising to sophisticated investors (firm commitments received)
- \$660,000, share purchase plan (SPP) being offered to existing shareholders.

### Proposed Use of Proceeds – Fund 2020 Plan (refer *Key Milestones - CY2019* slide)

- Preparing PFS for the Karinga Lakes Potash Project based on aMES™ technology
- Evaluation activities for the NMLP to support potential farm-out
- Ongoing business development and commercialisation of the aMES™ brine-processing technology
  - Including establishment and formalisation of strategic partnerships with leading industry players, and general working capital.

## Placement

- As of 25 November 2019, Parkway Minerals has received firm commitments from sophisticated investors to subscribe for 31,500,000 shares, to raise gross proceeds of \$189,000.
- Placement price of **\$0.006/share**, with a single unlisted **option** (1) for every two shares (2) issued (3-year term and exercisable at \$0.02).

## Share Purchase Plan

- Existing shareholders are being offered the opportunity to participate on same terms.
- 25 Nov 2019, SPP offer opens
- 17 Dec 2019, SPP offer closes

**For further details, refer to the SPP ASX Announcement (25 Nov 2019).**



## Bahay Ozcakmak to be Appointed Managing Director

- Bahay is the founder of Activated Water Technologies and was the CEO of Consolidated Potash Corporation (CPC) up until acquisition by Parkway Minerals in Sep 2019.
- As an experienced executive and the driving force behind the aMES™ technology since inception, the board has determined that Bahay is uniquely well placed to lead Parkway Minerals as it embarks on a range of growth initiatives.
- Following the recent acquisition of CPC, Bahay is one of the largest shareholders (~17.1%) of Parkway Minerals.
- Bahay has strong **technology commercialisation experience**, including in partnering/licensing/transacting with major companies in the biotech, energy, mining and fertiliser sectors.

## AGM & Board Changes

- The Parkway Minerals Annual General Meeting (AGM) is scheduled for **2:00pm (WST) on Tuesday the 26<sup>th</sup> of November**.
- Immediately after the Parkway Minerals AGM, executive director Bahay Ozcakmak will be appointed the new managing director of the Parkway Minerals.
- As part of the managing director succession process, the current Parkway Minerals managing director Patrick McManus will concurrently transition into a non-executive director role.

# Water – An Existential Crisis

## The growing threat of water wars

By Savell Ghosh  
Ghosh J, New Europe, 18 Nov 2019  
Professor of Economics at Jawaharlal Nehru University in New Delhi, Executive Secretary of International Development Economics Associates, and a member of the Independent Commission for the Reform of International Corporate Taxation.



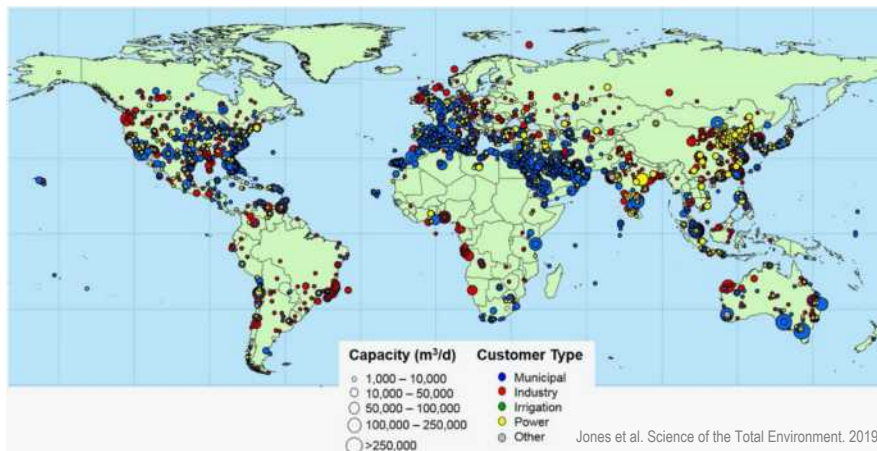
### i) Water Crisis

Population growth and economic development is putting pressure on limited freshwater resources:

- ~1.1 billion people worldwide lack access to water.
- ~2.7 billion find water scarce for at least one month of the year.

### ii) Competing Uses for Water

- The agriculture, energy and mining sectors are amongst the largest consumers of water.
- Access to water is very challenging.



### iii) Need for Improved Sustainability

- It is estimated that, less than 5% of liquid wastes from the mining industry undergo any form of processing to recover freshwater.
- Permitting new mines that require freshwater is becoming difficult.

WIRED BUSINESS CULTURE DEAR IDEAS SCIENCE MORE SIGN IN SUBSCRIBE

## Desalination Is Booming. But What About All That Toxic Brine?

Desalination plants turn seawater into drinking water, but also pump hypersaline water back into the environment. That's especially troubling because desal has become extremely popular.

f t e

Simon M, WIRED, 14 Jan 2019



### iv) Desalination Plants

- Rapidly growing market to meet major global water challenges.
- The ~16,000 operating desalination plants produce more than **140 million m<sup>3</sup>** of waste brine, per day.

**Solution – Key Requirement**  
Technology to recover fresh water, from concentrated brines, economically.

# What We Do – Transformational aMES™ Technology

## Processing Range of Brines and Salts

- Globally, more than **250,000,000m<sup>3</sup>** of **concentrated brine** is **produced daily**, more than half of the brine is produced by desalination plants.
- Large amounts of primary and waste brines are also produced from mining (potash/potassium, lithium), industrial, power generation and other major industries.
- Processing and disposal of these brines is often complex, problematic and expensive. Processing **costs can exceed \$10/m<sup>3</sup>**, providing an attractive opportunity.

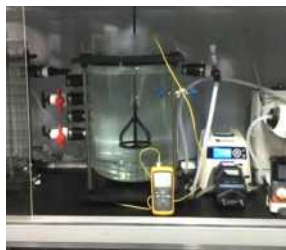
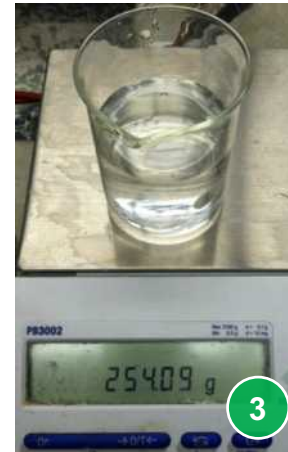


### Economic Brine Processing

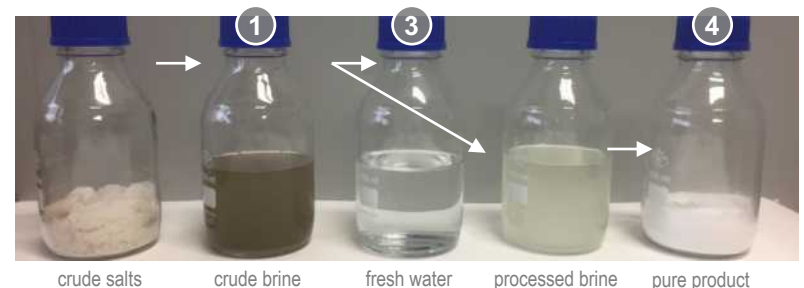
As a mining technology company, Parkway Minerals is focused on recovering valuable minerals from these brines, whilst reducing waste volumes.

### In simple terms, we:

1. Take waste brine streams.
2. Process the brine with our [aMES™ technology](#).
3. Recover very pure fresh water, and
4. Produce range of **high-purity minerals** including potash (MOP, KMS, SOP), Mg/Li & other salts.



## Processing Range of Brines and Salts



# Parkway Minerals – Our Vision

“ To transform global brine processing methods, through **innovative technology** to improve sustainability, and **create value.** ”

## Economic Value

- Improved mineral recovery
- Recycling of water & reagents
- Monetisation of byproducts

## Environmental Value

- Reduced environmental footprint
- More sustainable operations

## Social Value

- Meeting community expectations
- Securing licence to operate

aMES<sup>TM</sup>

## KEY APPLICATIONS

Desalination

Mining Brines

Potash – SOP

# Key Advantages of aMES™ Technology

## Next-Generation Brine Processing

- Existing conventional technologies are mature, but increasingly **no longer fit-for-purpose**, particularly in terms of environmental credentials.
- Flotation – widely used in mineral processing including in potash production, but low-yields and **disposal of waste streams is a major challenge**.
- Reverse Osmosis (RO) – disposal of **waste brine streams is emerging as a significant issue**, particularly given the presence of antiscalants and antifoulants.

Key Performance Parameter	aMES™ Technology	Flotation Process	Reverse Osmosis
Potash Recovery	90%+ ✓	75%+ ✗	-
Reliance on reagents	no ✓	yes ✗	-
Recovery of byproducts	yes ✓	no ✗	no ✗
Recovery of fresh water	yes ✓	no ✗	yes ✓
Water quality	high (<10mg/L) ✓	-	low (>300mg/L) ✗
Raw water recovery	75%+ ✓	none ✗	30-40% ✗
Environmental impact	low ✓	moderate ✗	moderate ✗
Operating pressure	low ✓	ambient ✓	very high ✗
Electrical energy demand	low ✓	low ✓	low-moderate ✗

## Conventional Flowsheets

- Many conventional project flowsheets, adopt Flotation for mineral processing related applications and Reverse Osmosis (RO) for desalination.
- Many mineral processing flowsheets also adopt RO to provide process water and/or “dewater” waste streams to reduce disposal volumes.

## aMES™ Based Flowsheets

- The application of aMES™ technology provides the opportunity to:
  - improve product quality and yields
  - produce fresh water (instead of consume)
  - reduce project waste footprint

### “Game-changer”

- Efficient
- High-purity
- Sustainable

### “Conventional”

- Low-yielding
- Moderate-purity
- Sub-optimal

### “Cheap water”

- Low water yield
- Waste brine stream
- Process chemicals



... the natural choice.



# Proprietary aMES™ Technology Platform

## High-Value Technology Platform

Through the acquisition of CPC, Parkway has acquired Activated Water Technologies (AWT), the owner of the aMES™ technology platform.

### Through aMES™, AWT has developed:

- An efficient system to process concentrated brines to recover valuable minerals.
- Flexibility to optimise flowsheet to extract maximum value from a given feedstock.
- **A novel brine processing platform, with substantial barriers to entry.**

## World-Leading R&D

- Subsidiaries recently acquired by Parkway, primarily AWT, are at the forefront of innovative brine processing related R&D.



AWT has a strategic collaboration and technology licensing agreement in place with VU. The partnership has been successful in securing prestigious Australian Research Council (ARC) grants to deliver R&D programs with budget exceeding \$1 million.

AWT is a founding member of ARC-EESep, a world-class team of scientists from 8 Australian universities, CSIRO, 3 Intl. universities, and includes 20 industry partners, with total funding of >\$10 million.



### Novel Concept Design

- The aMES™ technology:
  - Is based on innovative system designs, including (patented) designs which provide significant advantages
  - Incorporates a range of proprietary modifications and integrations to established process designs & equipment



### R&D Technical Partner

- Strategic partnership and technology licensing agreement with Victoria University (VU).
- Based on more than a decade of water sector research (>\$10M), has developed significant R&D expertise knowhow relating to:
  - Novel system designs
  - Robust operation of pilot plant facilities
  - State-of-the-art R&D



### Pilot Plant Facilities

- A broad range of aMES™ pilot plant equipment and facilities suitable for:
  - Performing cutting-edge in-situ studies including crystallization kinetics
  - Investigating key process parameters and providing proof-of-concept for each feedstock
  - Validating performance and performing range of optimization studies



### High Performance

- The design of each aMES™ project application is intended to achieve a material step-change in project performance as a results of:
  - Proprietary system design & operation
  - Integrated heat-exchanger (patented) to improve energy intensity
  - Utilising CHP principles to increase system efficiency



### Leading Partnerships

- Established relationships with key partners essential for successful project delivery including:
  - Technical process development expertise
  - OEM suppliers, particularly plant and BOP system related
  - EPC contractors
  - Specialised consultants
  - Project proponents



#### aMES™ Pilot Plant

Innovative aMES™ pilot plant built and operated, with specialised equipment; options to significantly scale-up brine processing capacity as required.



#### aMES™ Operations

Proprietary brine extraction, preparation and processing capabilities based on the innovative aMES™ technology platform, support testing operations.



#### aMES™ Products

Extensive testwork based on proprietary aMES™ flowsheets has produced high-grade potash related products, including sylvite (MOP), leonite (KMS), sulphate of potash (SOP).

# Opportunities for SOP Production through aMES™

## Overview

- There is growing demand for sulphate of potash (SOP), however, bringing new production online through conventional means, faces significant challenges.

### 1) Process Water

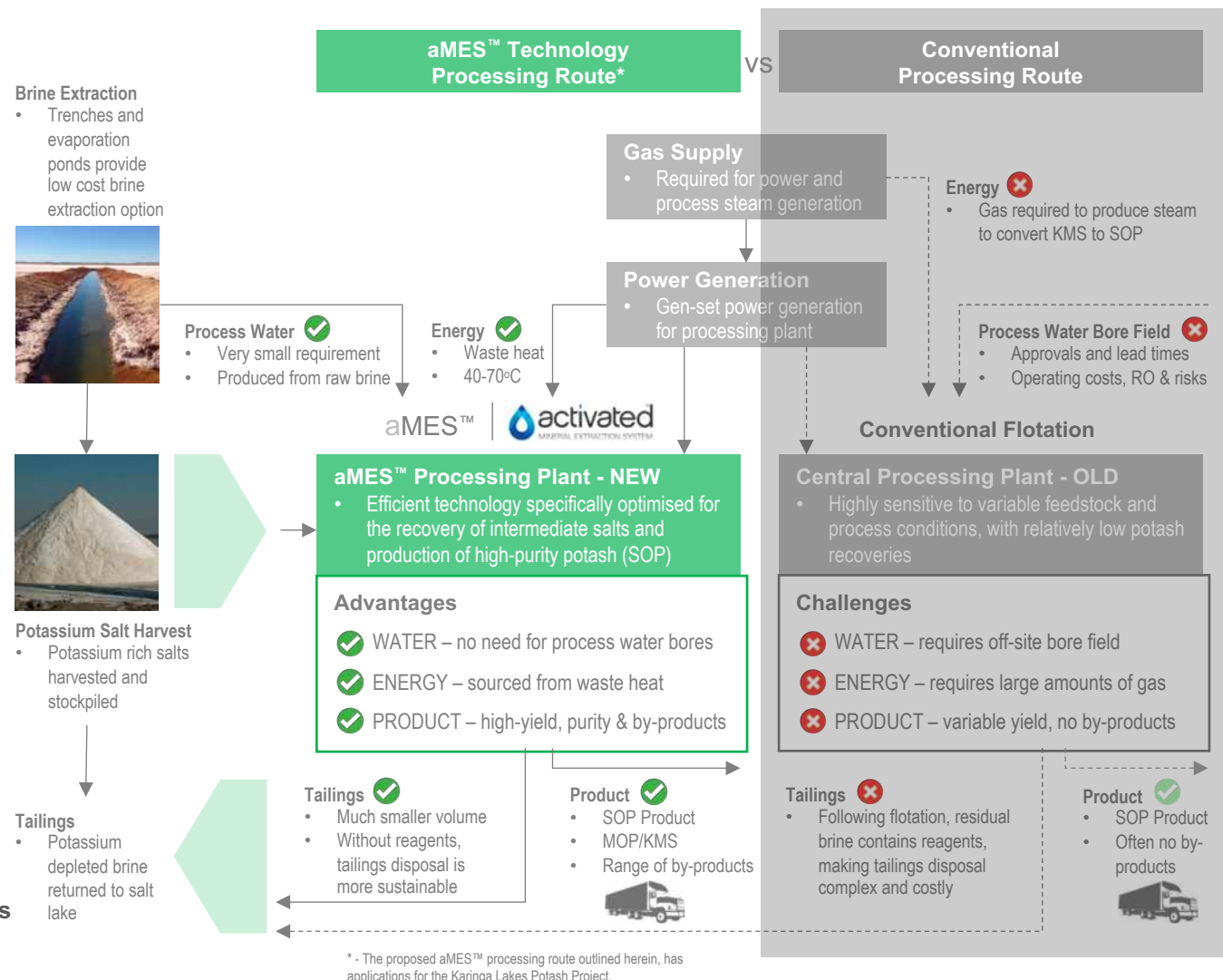
- Depending on the specific flowsheet, the production of 1 tonne of SOP can require in excess of 10m<sup>3</sup> of fresh process water.
- The aMES™ technology recovers and recycles high-quality process water.**

### 2) Mineral Processing

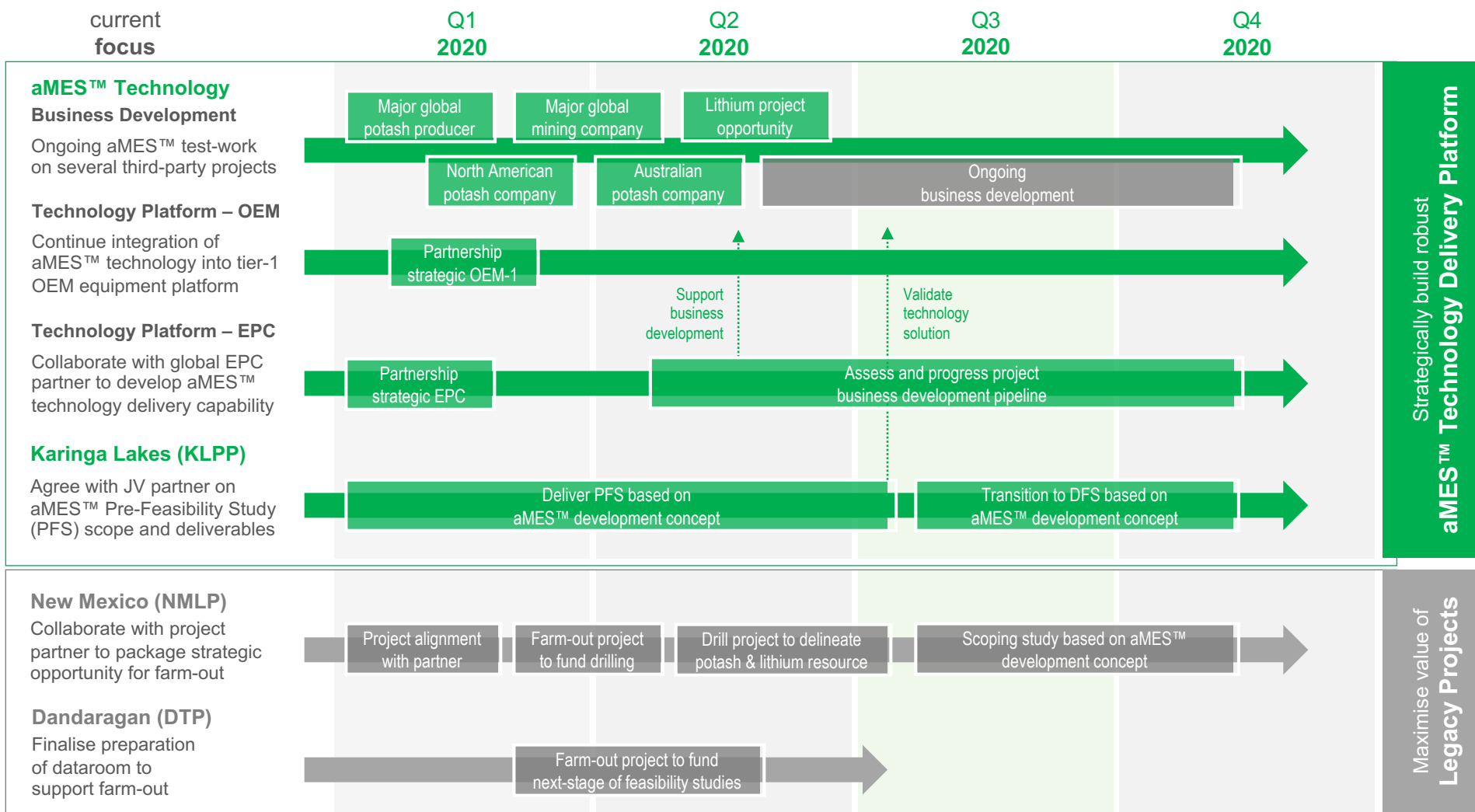
- Mineral recoveries associated with flotation and other conventional processes are sensitive to feedstock composition.
- The aMES™ technology achieves high recoveries including of by-products.**

### 3) Waste Brine Disposal

- Various mineral processing stages associated with flotation, leaching and purge solutions, generate substantial waste brine streams.
- Disposal of these waste brine streams is often both complicated and costly.
- The aMES™ technology is able to process & recover products from these streams.**



# Key Milestones – CY2020



DFS – definitive feasibility study | EPC – engineering, procurement & construction | OEM – original equipment manufacturer | PFS – pre-feasibility study

# Investment Case

## 1) Unique Technology

- Proprietary aMES™ technology platform – patented IP & knowhow

## 2) Very Large Addressable Markets

- Mining, desalination, industrial waste brine and others

## 3) Focus on High Value Applications

- Applications where a mature low-cost alternative does not exist

## 4) Working with Leading Strategic Partners

- Partnering with tier-1 OEM (equipment) and EPC (engineering)

## 5) Attracting Interest of Major Industry Players

- Performing pilot studies and in discussions with prospective tier-1 clients

## Sustainability Focus

- Strong drivers for improvement

## High Barriers to Entry

- Very difficult for others to compete

## Capital Light Business Model

- Recurring aMES™ licensing revenue

## Experienced Team

- Industry & technology expertise

## Robust Investment Case

- Established strong foundations to underpin rapid growth
- Opportunity to build a substantial business based on leveraging proprietary technology



Parkway Minerals is developing a **technology leveraged resources company**, through the **commercialisation of the aMES™ technology platform**.

>> Immediate focus is on developing solutions to improve potash production.

# Recent Mining/Water-Tech Successes on the ASX

## SciDev (ASX: SDV) – 12M Performance

- Market Cap: \$71 Million
- 12M Range: \$0.03 – 0.76
- Tailings solids separation chemicals

### Typical Stages on the Journey to Success

- Building the IP portfolio - often 5 - 10 years
- Partnering with key clients and partners
- Visibility on revenues
- Institutional investors enter the register
- Raise funds for next stage of growth



## Where is Parkway Minerals with aMES™?

- Undergone extensive IP development, now at the partnering stage. Established relationships, ongoing discussions about announcing strategic partnerships.

## Phoslock (ASX: PET) – 12M Performance

- Market Cap: \$528 Million
- 12M Range: \$0.31 – 1.59
- Water remediation



## De.Mem (ASX: DEM) – 12M Performance

- Market Cap: \$40 Million
- 12M Range: \$0.09 – 0.36
- Water treatment



- Data, including charts is as of 22 November 2019.
- Parkway Minerals is not providing any form of forecast or guidance. All information on this slide is provided for illustrative purposes only and should not be relied on for any purpose whatsoever.

# Additional Information Resources

## Key Resources

- This presentation is intended to provide a brief introduction to Parkway Minerals (ASX: [PWN](#)). For additional information, please refer to the below resources.

## Website



Parkway Minerals (ASX:PWN) has assembled a portfolio of high-quality resource projects focused on the sustainable production of fertilizer minerals as well as lithium salts, which can be found in certain naturally occurring brines.

Through our strategic investment in Davenport Resources (ASX:DAV), we own a material interest in a globally significant potash resource in Germany. PWN also owns a direct 100% interest in the Dandakaran Tough Project (DTP), where we have invested in excess of \$13 million over 8 years, to delineate one of the world's largest potassium and phosphate containing glauconite/greensands deposits.

In addition to the K-Max® technology, developed specifically for processing glauconite feedstock from the DTP, we recently acquired the innovative aMES™ technology, which has been developed to process a range of challenging brine streams, in order to recover valuable minerals and produce fresh water.

Whilst the aMES™ technology is applicable to the processing of a broad range of brines, Parkway Minerals is currently focused on leveraging this state-of-the-art technology to improve the efficiency, sustainability and ultimately the profitability of global potash production, by enabling the development of more innovative project development concepts. A recent scoping study highlighted the advantages of incorporating the aMES™ technology into the development concept for the Karinga Lakes Potash Project (KLPP). In addition to the KLPP, our ongoing piloting and evaluation studies of several third-party potash projects continue to provide further encouragement of the transformative potential of the aMES™ technology.

As we move forward with our plans to improve global potash production, at Parkway Minerals, our vision is even more ambitious. We plan to "transform global brine processing methods, through innovative technology in order to improve sustainability, and create value."



[www.parkwayminerals.com.au](http://www.parkwayminerals.com.au)

## Investor Presentations

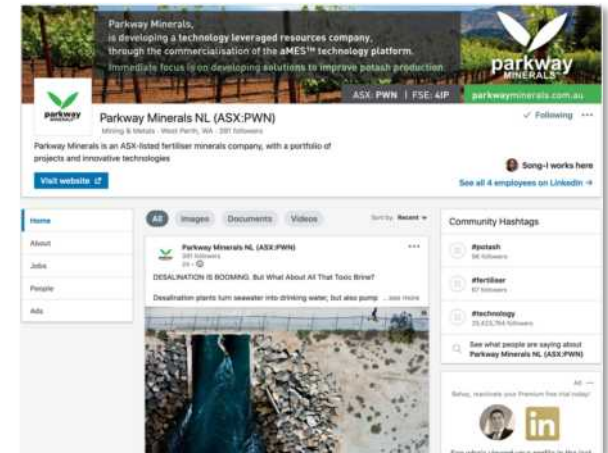


[Transaction Presentation](#) (5 Aug 2019)



[Technical Presentation](#) (28 Oct 2019)

## LinkedIn



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# Karinga Lakes Potash Project (KLPP) – Overview

>> Additional Information: [KLPP](#)

## Introduction

- CPC has earned an initial 15% interest in the KLPP, and has the right to acquire up to 40% through staged investment of further \$2 million.
- CPC holds a conditional option<sup>i</sup> to acquire additional 10.1%.
- In February 2019, CPC delivered a Scoping Study<sup>ii</sup> to the project operator, Verdant Minerals<sup>iii</sup>, investigating a potential **development scenario for the KLPP based on the aMES™ technology**.
- CPC has established a JV with Verdant Minerals to pursue feasibility studies regarding potential project appraisal and development.

## Infrastructure

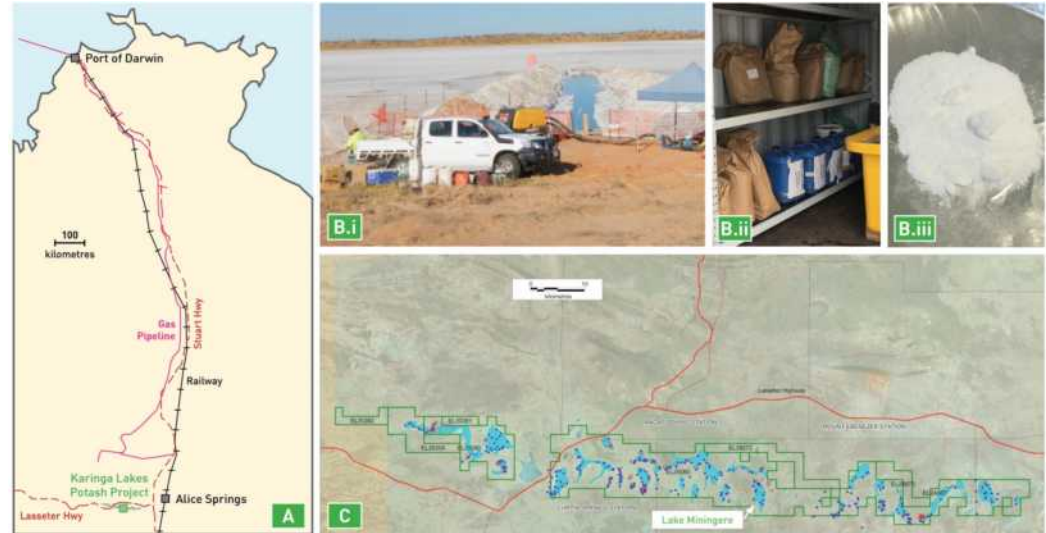
- Brine lake system located in prime geological setting on pastoral land in Central Australia (Northern Territory).
- Ideally located, with major road and rail infrastructure located in proximity to the project, with regional gas options also available.

## Geology

- The project consists of a chain of dry salt lakes and is located within the Central Australian Groundwater Discharge Zone.

## Extensive Project Studies

- Extensive project appraisal studies have been performed by Verdant Minerals since 2010.
- On 20 February 2014, Verdant Minerals reported an in-situ sulphate of potash (SOP) resource (in accordance with the 2012 JORC Code) for the KLPP. Since announcing this resource, reporting guidelines have changed, as a result, investors are cautioned not to make investment decisions based on the presently reported and publicly available mineral resource for the KLPP. Further details, refer to the *Parkway ASX announcement on 5 August 2019*.



(A) KLPP Regional Infrastructure (Northern Territory). (B.i) Lake Mingere Trial Trench. (B.ii) Lake Mingere Brine & Salt Samples. (B.iii) SOP produced from Lake Mingere salts. (C) KLPP Exploration Licence Map. Maps and associated details are illustrative only and not to scale.



KLPP - potash brine preparation brine extraction for aMES™ processing)

## aMES™ Application Rationale

- Potential to rapidly develop a more capital efficient and sustainable potash production operation compared to conventional development pathways.
- The aMES™ pathway potentially eliminates the requirement for flotation, process steam, gas pipeline and a freshwater bore field, which collectively represent major costs in the traditional SOP production flowsheet previously evaluated.
- Potential to recover magnesium salts as a by-product.

i – refer Parkway [ASX Release 5 August 2019](#).

ii – refer Verdant Minerals [ASX Release 18 February 2019](#).

iii – formerly ASX: VRM, in June 2019 was acquired by CD Capital at a 113% premium.

# New Mexico Lithium Project (NMLP) - Overview

>> Additional Information: [NMLP](#)

## Introduction

- Parkway has acquired an initial 70% interest in the NMLP, and has the right to acquire up to 100% through staged investment.
- Project covers ~40km<sup>2</sup> of federal BLM claims – no royalties payable.
- Project ideally located, with major road, rail, gas and power infrastructure passing through or adjacent to the project area.

## Lordsburg Playa

- The project displays important geological components including:
  - i) “source” - lithium bearing volcanic rocks.
  - ii) “scale” - large catchment area to accumulate lithium.
  - iii) “concentration” - located in a geothermally active region.
  - iv) “trap” - closed central playa in an arid environment.
- The project area has not been previously explored for lithium.



[A] Map of the United States of America. [B] Map of New Mexico (N.M.). [C] NMLP Claim Map. Maps and associated details are illustrative only and not to scale. Map does not reflect recent claim consolidations.

## Right Geology for Lithium Brine

- Basin and Range extensional faulting - actively defines subsiding closed basin.
- Volcanic source rock include lithium bearing rhyolites.
- Region of high heat flow including hot springs to leach lithium from rhyolites into brines in the closed Lordsburg basin.
- Basin morphology provides large catchment area for groundwater and brine recharge. Long lived basin for enrichment of lithium brines.

## Forward Plan

- Seek to farm-out for free-carry, and/or shallow drill to define resource.



Lithium brines processed with aMES<sup>TM</sup> technology, as a pretreatment.

## aMES<sup>TM</sup> Application Rationale

- Potential to **direct process the brine with aMES<sup>TM</sup>** technology, therefore eliminating or reducing the need for evaporation ponds.
- Potential to rapidly develop a more capital efficient and sustainable lithium production operation compared to conventional development pathways.
- Potential to process and recover range of additional compounds including **potash as a by-product**.
- Third-party interest in the NMLP, with potential to drill in conjunction with regional exploration company.



# Dandaragan Trough Project (100% PWN)

>> Additional Information: [DTP](#)

## Overview

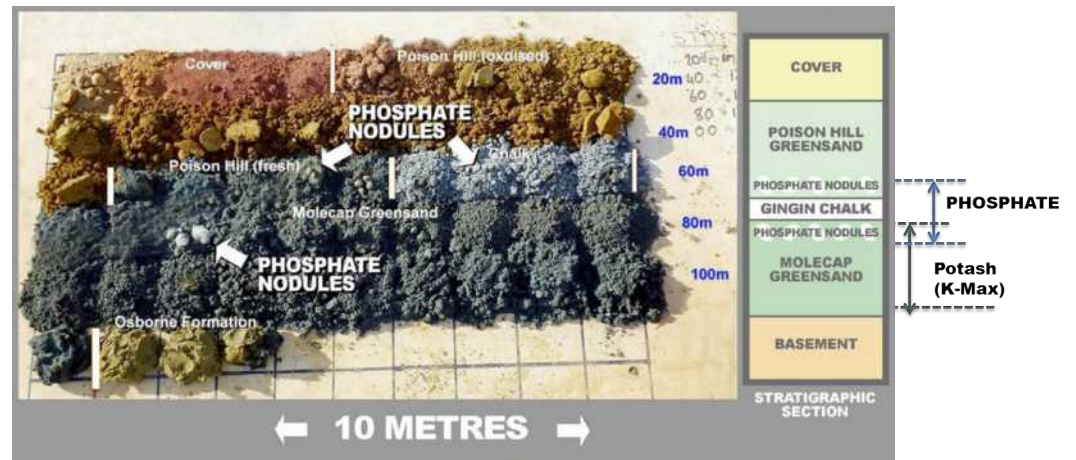
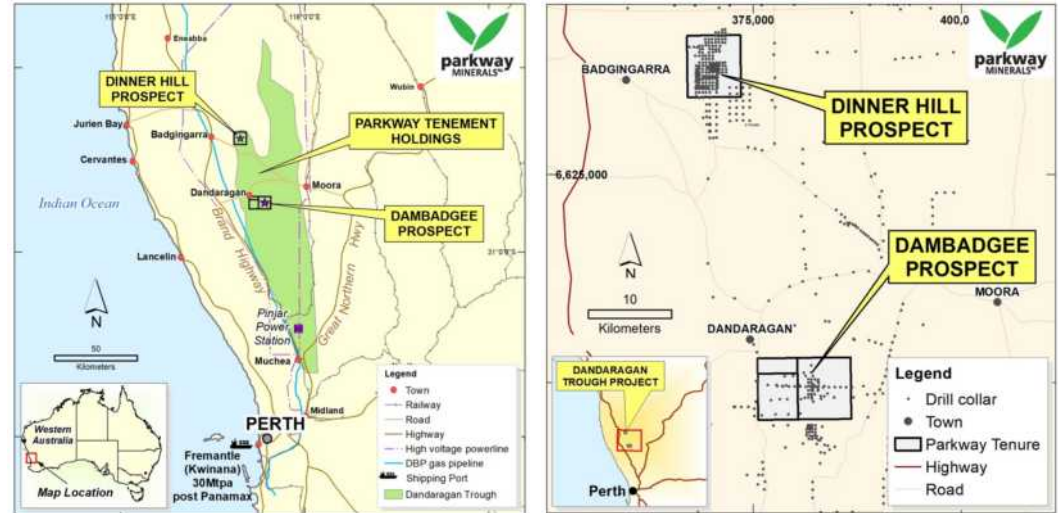
- The Dandaragan Trough hosts one of the **world's largest glauconite/greensands deposits**, containing abundant P and K.
  - Widths greater than 20km
  - Many intersections greater than 40m thick
  - Regionally extensive - extends ~150km along strike
- Great Infrastructure:
  - Rail, roads, towns, power, gas and water all nearby
  - Two major export ports and fertiliser plants at Geraldton and Kwinana, less than 200km away.
- Close to local markets WA SE and South Asia
- Similar mining activity already established in the region.

## Resource Appraisal

- Indicated + Inferred Potash Resource – 910 Mt @ 3.8%  $K_2O$ , and
- Indicated + Inferred Phosphate Resource – 630 Mt @ 1.9%  $P_2O_5$ .
- Resource covers 52 km<sup>2</sup> area (ASX release, 26 Sept 2017).
- Dambadgee – Recent drilling results suggest that the Dambadgee prospect may represent a higher quality resource than Dinner Hill. Exploration Target of 2 to 4 billion tonnes reported [28 Sept 2017](#).

## Next Steps

- Parkway is exploring various pathways to introduce a joint venture or strategic partner to fund the next stage of feasibility studies.



# Davenport Resources (ASX: DAV)

>> Additional Information: [DAV](#)

## Overview

- Davenport Resources is a pure-play potash company with a globally significant potash resource inventory (largest in Western Europe), in an established potash mining district of Central Germany.

## PWN Shareholding

PWN is the largest shareholder in Davenport Resources holding:

- 34,300,000 shares (~20.8% IC) and 7.1 million options (DAVO)

## Potash Resource

- Davenport controls over 4.9 Billion tonnes (grading 10.6% K<sub>2</sub>O) of JORC Inferred Resource from its Ebeleben and Mühlhausen-Nohra mining and Küllstedt exploration licences, including 1.6 billion tonnes of Sylvinitite grading 13.1% K<sub>2</sub>O.
- Davenport's portfolio of resources represents **Western Europe's largest potash inventory** and contains a number of significant projects.

## Corporate Synergies

- Approximately 75% of the potash resource (1,205 million tonnes) at the Küllstedt project consists of carnallitite grading at 10.1% K<sub>2</sub>O, which may be **amenable to primary solution mining**.
- CPC's aMES™ technology has likely applications in both the primary processing of potash solutions as well as sylvinitite waste streams.
- CPC has previously performed testwork to demonstrate the suitability of the aMES™ technology to process primary and waste brine streams from other potash projects.
- Parkway has facilitated collaborative discussions between DAV and CPC, to explore potential pathways for adding value to the DAV project portfolio.

